



March 20, 2019

Wisconsin Department of Natural Resources
Attn: Mr. Matt Thompson
1300 W. Clairemont Avenue
Eau Claire, WI 54701



Subject:

Update Report
Pioneer Bank – Former Texaco Station
701 South Central Avenue
Marshfield, WI, 54449
BRRTS #03-72-521604
PECFA #54449-4106-01

Dear Mr. Thompson:

On behalf of Mr. Pat Schreiner, REI Engineering, Inc. (REI) hereby submits one (1) copy of the above referenced report. REI has completed the approved scope of services which included three (3) additional rounds of groundwater monitoring, resurveying the well network to verify groundwater flow direction, update and inclusion of historical data to the summary tables. Based on current site conditions, REI recommends submitting the site for case closure consideration.

If you have any questions and/or require additional information, please contact our office at (715) 675-9784 or via email at bbailey@reiengineering.com.

Sincerely,
REI Engineering, Inc.

Brian J. Bailey
Environmental Scientist

Enclosure (A/S)

cc: Mr. Pat Schreiner, 106 E 4th Street, Marshfield, WI 54449 (e-copy)



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REI

**CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING**

**UPDATE REPORT
PIONEER BANK – FORMER TEXACO
STATION**

701 SOUTH CENTRAL AVENUE

MARSHFIELD, WI

BRRTS #03-72-521604

PECFA #54449-4106-01

REI PROJECT #5403



**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



UPDATE REPORT

**PIONEER BANK – FORMER TEXACO STATION
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WI
BRRTS #03-72-521604
PECFA# 54449-4106-01**

REI PROJECT #5403



PREPARED FOR:

**Mr. Pat Schreiner
108 E 4th Street
Marshfield, WI 54449**

MARCH 2019

UPDATE REPORT

**PIONEER BANK – FORMER TEXACO STATION
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WI
BRRTS #03-72-521604
PECFA# 54449-4106-01**

REI PROJECT #5403

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

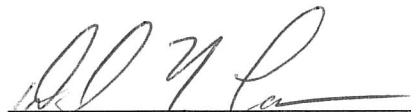
"I, Brian J. Bailey, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Environmental Scientist

3-20-19
Date

"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

3/20/19
Date

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UPDATE REPORT

**PIONEER BANK – FORMER TEXACO STATION
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WI
BRRTS #03-72-521604
PECFA# 54449-4106-01**

REI PROJECT #5403

1.0 INTRODUCTION

1.1 Purpose

The Pioneer Bank – Former Texaco Station property is located at 701 South Central Avenue in the NW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 08, Township 25 North, Range 03 East, City of Marshfield, Wood County, Wisconsin (Figure 1). WTM coordinates of the site are 505940/465328. Figure 2 presents the site layout. This report summarizes the results of a limited scope of services. The approved scope of services included a resurvey of the existing monitoring well network, three (3) rounds of groundwater sampling, updating historic data to current standards, followed by an update report.

2.0 SUMMARY OF ACTIVITIES

2.1 Monitoring Well Sampling Results

REI personnel were on site to sample the well network on April 26, July 19, and October 18, 2018. Depth to water was measured in all remaining wells and is presented in Table 1. The existing monitoring well network was resurveyed on April 26, 2018 and top of casing elevations are recorded in Table 1. Low flow sampling technology was employed for the sampling of the entire well network. Once groundwater demonstrated stability (using a YSI multiparameter field meter and flow cell), a sample was collected in laboratory prepared vials. All purge water was containerized for disposal at the City of Wausau wastewater treatment facility.

Groundwater samples were collected and submitted to a State certified laboratory for chemical analysis of petroleum volatile organic compounds and naphthalene (PVOC+N). Copies of complete laboratory analytical reports are presented in Appendix A.

The results of the REI groundwater sampling events and the historical groundwater sampling events are summarized in Tables 2a-m. Groundwater sample results document residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) at sample locations MW4 and MW5. MW5 demonstrated a slight increasing trend in petroleum compounds which is likely a function of increased groundwater elevations (down gradient of source area).

Time verse concentration plots were prepared for MW1, MW2, MW4 and MW5 for benzene. This series of monitoring wells have documented impact historically. Each of these plots revealed reducing or relatively stable trends over time. Copies of the time verse concentration plots are presented in Appendix B.

Figures 3, 4 and 5 present groundwater contour maps from the data collected on April 26, July 19, and October 18, 2018, respectively. Groundwater flow direction documents flow that may be radially into the subject property. This is due to the presence of a utility corridor that is acting as an interceptor for shallow groundwater flow. Notes contained in the WDNR project file indicate that the water table slopes towards the utility trenches to the northeast and northwest of the site.

2.2 Monitoring Well Abandonment

The property directly the south of the Pioneer Bank property with site address 725 South Central Avenue, Marshfield, WI underwent redevelopment beginning in late fall of 2017, which continued into 2018. During the July 19, 2018 sampling event, REI discovered that MW10 was missing and was likely removed during the ongoing building construction project. On August 1, 2018, REI notified WDNR Project Manager regarding the missing well.

REI later received well abandonment form from the contractor (DKS Construction Service, Inc.) and it was confirmed that they removed/abandoned the well. The WDNR Project Manager responded on September 5, 2018 and recommended REI complete the approved scope of work without MW10 and forego replacement of that well. The well abandonment form is included as Appendix C.

3.0 CONCLUSION & RECOMMENDATION

The presence of petroleum contaminated groundwater exists in connection with the historic release at the subject property. Based on the groundwater analytical data, there has been a reduction in the petroleum compounds with generally decreasing/stable trends across the site. The three (3) additional sampling events collected with this scope of services in 2018 confirmed that condition. The degree and extent of contamination has been defined and significant migration has not been identified over the life of the investigation. Additionally, sub-slab vapor analytical sample results collected in August 2013 and January 2018 document that a vapor risk is not present at the subject property (Table 3). REI recommends submitting the Pioneer Bank / Former Texaco Station for case closure consideration.

Table 1
Depth to Water and Water Level Elevations
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Depth to Water (feet) below Reference Elevation

Date	MW1/MWX	MW2	MW3	MW4	MW5	MW6	MW7	MW7R	MWB-7	MW8	MW9	MW10	PZ1	PZ2
11/20/2007	13.2	16.91	14.72	11.09	14.61	12.5	10.86	NI	-	NI	NI	NI	NI	NI
5/28/2008	NM	NM	NM	8.8	NM	NM	NM	NI	-	NM	NM	NI	NM	NI
5/29/2008	NM	NM	12.40	NM	NM	NM	8.01	NI	-	NM	NM	NI	14.79	NI
5/30/2008	NM	12.15	NM	NM	12.18	NM	NM	NI	-	7.74	14.41	NI	NM	NI
8/11/2008	NM	11.79	12.67	8.97	NM	11.75	10.26	NI	-	9.41	14.74	NI	15.01	NI
8/12/2008	12.01	NM	NM	NM	12.54	NM	NM	NI	-	NM	NM	NI	NM	NI
12/2/2008	NM	NM	14.21	10.86	NM	13.85	11.28	NI	-	9.81	15.34	NI	NM	NI
12/3/2008	11.58	13.32	NM	NM	14.28	NM	NM	NI	-	NM	NM	NI	15.73	NI
11/7/2012	12.32	12.54	13.57	10.40	12.74	12.03		NI	-	8.54		17.99	15.28	16.66
8/12/2013	10.55	10.98	11.98	8.31	11.36	11.08		3.77	-	7.26		11.73	14.61	15.97
1/10/2018		12.17	13.91	10.82	13.32	12.43		Lost to Construction	-	9.78	Lost to Construction	13.36	15.62	16.50
4/26/2018	Lost to construction	10.18	11.27	7.80	11.15	9.81		Lost to construction	9.41	7.58	Lost to Construction	11.95	14.79	16.05
7/19/2018		10.50	11.52	8.27	11.35	9.42			9.55	8.00		Lost to construction	14.48	15.87
10/18/2018		11.85	12.54	9.64	11.54	9.87			10.74	7.04			14.37	15.73

Measuring Point Elevations (top of well casing)

Elevations referenced to a U.S.G.S. Benchmark (feet MSL) - unless provided by others

Initial Survey (AECOM)	1,251.48	1,251.97	1,252.57	1,251.91	1,252.98	1,253.98	1,252.01			1,251.79	1,251.54		1,252.28	
Resurvey (REI) 4-26-18		1,261.23	1,262.27	1,261.36	1,262.29	1,263.27		1,252.14		1,261.35	1,260.93		1,254.19	1,253.36
													1,263.45	1,261.00
														1,261.99

Depth to Water (feet) below Ground Surface

Average	11.93	12.24	12.88	9.50	12.51	11.42	10.10	3.77	9.90	8.35	14.83	13.76	14.96	16.13
Maximum	10.55	10.18	11.27	7.8	11.15	9.42	8.01	3.77	9.41	7.04	14.41	11.73	14.37	15.73
Minimum	13.2	16.91	14.72	11.09	14.61	13.85	11.28	3.77	10.74	9.81	15.34	17.99	15.73	16.66
Range	2.65	6.73	3.45	3.29	3.46	4.43	3.27	0	1.33	2.77	0.93	6.26	1.36	0.93

Water Level Elevation (feet MSL)

Date	MW1/MWX	MW2	MW3	MW4	MW5	MW6	MW7	MW7R	MWB-7	MW8	MW9	MW10	PZ1	PZ2
11/20/2007	1,238.28	1,235.06	1,237.85	1,240.82	1,238.37	1,241.48	1,241.15							
5/28/2008				1,243.11										
5/29/2008			1,240.17				1,244.00						1,237.49	
5/30/2008		1,239.82			1,240.80					1,244.05	1,237.13			
8/11/2008		1,240.18	1,239.90	1,242.94		1,242.23	1,241.75			1,242.38	1,236.80		1,237.27	
8/12/2008	1,239.47				1,240.44									
12/2/2008			1,238.36	1,241.05		1,240.13	1,240.73			1,241.98	1,236.20			
12/3/2008	1,239.90	1,238.65			1,238.70								1,236.55	
11/7/2012	1,239.16	1,239.43	1,239.00	1,241.51	1,240.24	1,241.95				1,243.25		1,236.20	1,237.00	1,236.70
8/12/2013	1,240.93	1,240.99	1,240.59	1,243.60	1,241.62	1,242.90		1,248.37		1,244.53		1,242.46	1,237.67	1,237.39
1/10/2018		1,239.80	1,238.66	1,241.09	1,239.66	1,241.55				1,242.01		1,240.83	1,236.66	1,236.86
4/26/2018		1,251.05	1,251.00	1,253.56	1,251.14	1,253.46			1,251.94	1,253.35		1,251.50	1,246.21	1,245.94
7/19/2018		1,250.73	1,250.75	1,253.09	1,250.94	1,253.85			1,251.80	1,252.93			1,246.52	1,246.12
10/18/2018		1,249.38	1,249.73	1,251.72	1,250.75	1,253.40			1,250.61	1,253.89			1,246.63	1,246.26

NI - not installed
 NM - not measured

**Table 2a
Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, WI**

Sample Location				MW1			
Sample Collected By				AECOM			
Date				11/20/2007	5/29/2008	8/12/2008	12/3/2008
VOC Parameters	ES	PAL	Units				
Benzene	5	0.5	µg/L	14,400	523	1,420	694
Toluene	800	160	µg/L	<400	8.59	6.54	<3.00
Ethylbenzene	700	140	µg/L	<i>547</i>	27.4	49.9	20.6
Xylenes (mixed isomers)	2,000	400	µg/L	< 600	17.78	12.31	26.1 ^J
Methyl tert-Butyl Ether (MTBE)	60	12	µg/L	NA	9.79	4.78	54.3
Trimethylbenzenes (mixed isomers)	480	96	µg/L	443	42.6	40.8	18.4 ^J
Naphthalene	100	10	µg/L	<1,000	1.56	<i>86.7</i>	6.41
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	324	NA	NA	NA
cis-1,2-Dichloroethene	70	7	µg/L	<200	NA	NA	NA
trans-1,2-Dichloroethene	100	20	µg/L	<200	NA	NA	NA
Tetrachloroethene (PCE)	5	0.5	µg/L	<300	NA	NA	NA
Trichloroethene (TCE)	5	0.5	µg/L	<200	NA	NA	NA
Vinyl chloride	0.2	0.02	µg/L	<200	NA	NA	NA
Inorganic Parameters							
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA
Dissolved Iron	300	150	µg/L	31	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	<i>6.54</i>	0.97	<i>2.26</i>	< 0.60
Dissolved Manganese	50	25	µg/L	1,190	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	<0.10	NA	NA	NA
Total Sulfate	250	125	mg/L	40.3	NA	NA	NA
Field Measurements							
Temperature	-	-	°F	57.74	48.88	57.42	54.43
Conductivity	-	-	µmhos/cm	NA	1,039	943	953
pH	-	-	s.u.	NA	6.66	6.77	6.48
Dissolved Oxygen	-	-	mg/L	0.73	0.64	0.18	0.18
Oxidation Reduction Potential	-	-	mV	149	39.4	16.9	-11.5

Well Lost To
Road
Construction

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

<i>Italics</i>

NA = Not Analyzed

NS = Not Sampled

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

Table 2b
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				AECOM				MW2		REI			
Sample Collected By				Date				REI		REI			
				11/20/2007	5/30/2008	8/11/2008	12/3/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit										
Benzene	5	0.5	µg/l	<2	49.4	10.3	<0.310	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25
Toluene	800	160	µg/l	<i>188</i>	20.8	5.37	6.06	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17
Ethylbenzene	700	140	µg/l	<i>230</i>	45.5	17.6	9.6	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22
Xylenes (mixed isomers)	2,000	400	µg/l	2,606	43.3	20.14	6.29 ^J	<1.8	<0.82	<1.50	<1.50	<1.50	<0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	<i>16.4</i>	1.98	3.92	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,195	54.8	32.2	6.8	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87
Naphthalene	100	10	µg/l	139	5.69	0.257 ^J	0.313 ^J	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<2	NA	NA	NA	<0.45	<0.48	<0.17	<0.17	<0.28	<0.28
cis-1,2-Dichloroethene	70	7	µg/L	<2	NA	NA	NA	<0.83	<0.42	3.0	<0.26	<0.27	<0.27
trans-1,2-Dichloroethene	100	20	µg/L	<2	NA	NA	NA	<0.89	<0.37	<0.26	<0.26	<1.1	<1.1
Tetrachloroethene (PCE)	5	0.5	µg/L	<3	NA	NA	NA	<0.45	<0.47	5.4	<i>0.56^J</i>	<0.33	<0.33
Trichloroethene (TCE)	5	0.5	µg/L	<2	NA	NA	NA	<0.48	<0.43	3.4	<i>0.38^J</i>	<0.26	<0.26
Vinyl chloride	0.2	0.02	µg/L	<2	NA	NA	NA	<0.18	<0.18	<0.18	<0.18	<0.17	<0.17
Inorganic Parameters													
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	<i>14.8</i>	<i>3.95^J</i>	<i>1.38^J</i>	<i>0.91^J</i>	NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L	1,030	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	<0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L	20.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements													
Temperature	-	-	°F	NA	50.34	58.96	56.39	61.44	NA	52.70	54.57	56.40	62.80
Conductivity	-	-	µmhos/cm	NA	5,625	3,814	2,648	8,071	NA	8,918	13,139	10,231	14,029
pH	-	-	s.u.	NA	6.44	6.67	6.38	6.39	NA	6.09	5.39	7.95	6.31
Dissolved Oxygen	-	-	mg/L	NA	0.30	0.23	0.15	0.57	NA	6.53	5.08	1.27	1.74
Oxidation Reduction Potential	-	-	mV	75	6.4	-46.3	-7.3	131.6	NA	49.3	17.3	116.0	171.3

Project Stalled

Project Stalled

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
µg/l = parts per billion
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
NA = Not Analyzed
NS = Not Sampled
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 2c
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				AECOM				MW3		REI			
Sample Collected By				Date				REI		REI			
				11/20/2007	5/29/2008	8/11/2008	12/2/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit										
Benzene	5	0.5	µg/l	<0.20	<1.00	<0.310	<0.310	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25
Toluene	800	160	µg/l	<0.40	<0.300	<3.00	<0.300	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17
Ethylbenzene	700	140	µg/l	<0.10	<1.70	<0.500	<0.500	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.60	<0.980	<0.980	<0.980	<1.8	<0.82	<1.50	<1.50	<1.50	<0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	<0.300	<0.300	<0.300	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.20	<0.400	<0.400	<0.400	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87
Naphthalene	100	10	µg/l	<1.00	<0.110	<0.118	<0.110	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.20	NA	NA	NA	<0.36	<0.48	<0.17	<0.17	<0.28	<0.28
cis-1,2-Dichloroethene	70	7	µg/L	<0.20	NA	NA	NA	<0.83	<0.42	<0.26	<0.26	<0.27	<0.27
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	NA	<0.89	<0.37	<0.26	<0.26	<1.1	<1.1
Tetrachloroethene (PCE)	5	0.5	µg/L	<0.30	NA	NA	NA	<0.45	<0.47	<0.50	<0.50	<0.33	<0.33
Trichloroethene (TCE)	5	0.5	µg/L	<0.20	NA	NA	NA	<0.48	<0.43	<0.33	<0.33	<0.26	<0.26
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	NA	<0.18	<0.18	<0.18	<0.18	<0.17	<0.17
Inorganic Parameters													
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L	<0.010	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	< 0.30	< 1.50	< 6.0	< 0.60	NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L	909	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L	6.08	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements													
Temperature	-	-	°F	59.72	50.94	53.08	56.71	62.02	NA	54.81	50.72	59.35	61.0
Conductivity	-	-	µmhos/cm	NA	10,322	2,696	6,923	5,139	NA	5,876	7,580	9,668	10,641
pH	-	-	s.u.	NA	6.09	6.35	6.05	5.60	NA	5.05	5.10	6.51	5.40
Dissolved Oxygen	-	-	mg/L	6.08	0.77	0.46	0.28	6.39	NA	5.02	10.59	5.26	3.64
Oxidation Reduction Potential	-	-	mV	160	175	105.7	170.1	142.8	NA	105.1	54.8	167.6	206.5

Project Stalled

Project Stalled

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

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

NA = Not Analyzed

NS = Not Sampled

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

**Table 2d
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin**

Sample Location				AECOM				MW4		REI			
Sample Collected By				Date				REI		REI			
				11/20/2007	5/28/2008	8/11/2008	12/2/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit										
Benzene	5	0.5	µg/l					43.9	127	25.1	35.7	28.5	41.6
Toluene	800	160	µg/l					<i>209</i>	1,020	8.0	11.2	5.7	5.9 ^J
Ethylbenzene	700	140	µg/l					<i>521</i>	960	<i>360</i>	<i>540</i>	<i>441</i>	<i>514</i>
Xylenes (mixed isomers)	2,000	400	µg/l					<i>942</i>	2,421	360	<i>887</i>	<i>533</i>	<i>433.3</i>
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l					<2.4	<4.9	<0.35	<0.87	<6.2	<6.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l					<i>236</i>	671	<i>435</i>	570	<i>401.3</i>	<i>429</i>
Naphthalene	100	10	µg/l					205	391	<i>68.8</i>	<i>83.9</i>	<i>74.3</i>	<i>65.1</i>
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L					<1.4	<4.8	<0.34	<0.84	<1.4	<1.4
cis-1,2-Dichloroethene	70	7	µg/L					<3.3	<4.2	<0.51	<1.3	<1.4	<1.4
trans-1,2-Dichloroethene	100	20	µg/L	Free	Free	Free	Free	<3.6	<3.7	<0.51	<1.3	<5.5	<5.5
Tetrachloroethene (PCE)	5	0.5	µg/L	Product	Product	Product	Product	<1.8	<4.7	<1.0	<2.5	<1.6	<1.6
Trichloroethene (TCE)	5	0.5	µg/L	In Well	In Well	In Well	In Well	<1.9	<4.3	<0.66	<1.7	<1.3	<1.3
Vinyl chloride	0.2	0.02	µg/L	Not	Not	Not	Not	<0.72	<1.8	<0.35	<1.8	<0.87	<0.87
Inorganic Parameters				Sampled	Sampled	Sampled	Sampled						
Dissolved Cadmium	5	0.5	µg/L					NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L					NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L					NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L					NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L					NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L					NA	NA	NA	NA	NA	NA
Field Measurements													
Temperature	-	-	°F					58.96	NA	48.63	47.65	59.17	60.6
Conductivity	-	-	µmhos/cm					8,141	NA	11,895	13,231	14,870	14,344
pH	-	-	s.u.					6.39	NA	6.46	5.70	10.63	6.56
Dissolved Oxygen	-	-	mg/L					1.56	NA	0.82	7.27	1.23	1.13
Oxidation Reduction Potential	-	-	mV					-130.2	NA	-153.9	-132.4	-97.9	-104.4

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

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

Table 2e
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				AECOM				MWS							
Sample Collected By				AECOM				MWS							
Date				11/20/2007	5/30/2008	8/12/2008	12/3/2008	REI		REI					
								11/7/2012	8/12/2013		1/10/2018	4/26/2018	7/19/2018	10/18/2018	
VOC Parameters	ES	PAL	Unit												
Benzene	5	0.5	µg/l	80.6	41.9	83.8	62.9	32.1	20.9		79.5	3.3	170	139	
Toluene	800	160	µg/l	<20.0	1.43	1.44	1.75 ^J	<16.8	<8.8		<10.0	<0.50	1.4	1.1 ^J	
Ethylbenzene	700	140	µg/l	<5.00	1.25 ^J	<0.500	0.808	<13.5	<10.0		<10.0	<0.50	<0.22	<0.22	
Xylenes (mixed isomers)	2,000	400	µg/l	12.4	3.46 ^J	<0.980	0.605 ^J	<45	<16.3		<30.0	<1.5	<1.5	<0.47	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	<0.300	<0.300	<0.300	<15.2	<9.9		<3.5	<0.17	<1.2	<1.2	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	27	1.16 ^J	<0.400	<0.400	<24.2	<50		<10.0	<0.50	<0.87	<0.87	
Naphthalene	100	10	µg/l	<50.0	<0.113	<0.117	<0.112	<22.2	<50		<50.0	<2.5	<1.2	<1.2	
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<10.0	NA	NA	NA	<9.0	<9.5		<3.4	2.1	5.9	6.0	
cis-1,2-Dichloroethene	70	7	µg/L	2,350	NA	NA	NA	2,340	1,550		1,690	1,130	1,680	1,390	
trans-1,2-Dichloroethene	100	20	µg/L	184	NA	NA	NA	32.0	31.9		51.7	11.3	22.9	23.3	
Tetrachloroethene (PCE)	5	0.5	µg/L	2,680	NA	NA	NA	553	291	Project Stalled	179	175	218	215	
Trichloroethene (TCE)	5	0.5	µg/L	2,910	NA	NA	NA	605	388	Project Stalled	410	251	348	312	
Vinyl chloride	0.2	0.02	µg/L	<10.0	NA	NA	NA	<4.5	<3.7		<3.5	<0.18	2.9	<0.17	
Inorganic Parameters															
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Dissolved Iron	300	150	µg/L	<10.0	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Dissolved Lead	15	1.5	µg/L	0.36	<0.60	<0.60	<0.60	NA	NA		NA	NA	NA	NA	
Dissolved Manganese	50	25	µg/L	474	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Total Nitrate/Nitrite as N	10	2	mg/L	<0.10	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Total Sulfate	250	125	mg/L	26.0	NA	NA	NA	NA	NA		NA	NA	NA	NA	
Field Measurements															
Temperature	-	-	°F	57.74	53.08	56.77	57.15	60.23	NA		54.73	52.74	59.06	61.3	
Conductivity	-	-	µmhos/cm	NA	2,696	1,845	1,428	1,899	NA		1,673	3,117	2,762	3,062	
pH	-	-	s.u.	NA	6.35	6.37	6.15	6.29	NA		6.13	5.07	7.34	6.13	
Dissolved Oxygen	-	-	mg/L	3.68	0.46	0.16	0.37	1.87	NA		4.27	4.47	1.10	1.01	
Oxidation Reduction Potential	-	-	mV	166	105.7	139.1	55.4	145.2	NA		59.8	22.2	123.6	166.6	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded **BOLD**

Preventive Action Limit exceeded *Italics*

NA = Not Analyzed

NS = Not Sampled

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

Table 2f
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				AECOM				MWG		REI			
Sample Collected By				Date				REI		REI			
				11/20/2007	5/28/2008	8/11/2008	12/2/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit										
Benzene	5	0.5	µg/l	<0.20	<0.310	<0.310	<0.310	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25
Toluene	800	160	µg/l	<0.40	<0.300	<0.300	<0.300	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17
Ethylbenzene	700	140	µg/l	<0.10	<0.500	<0.500	<0.500	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22
Xylenes (mixed isomers)	2,000	400	µg/l	<0.60	<0.980	<0.980	<0.980	<1.8	<0.82	<1.5	<1.5	<1.5	<0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	<0.300	<0.300	<0.300	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.20	<0.400	<0.400	<0.400	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87
Naphthalene	100	10	µg/l	<1.00	<0.110	<0.147	<0.110	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.20	NA	NA	NA	<0.75	<0.48	<0.17	<0.17	<0.28	<0.28
cis-1,2-Dichloroethene	70	7	µg/L	<0.20	NA	NA	NA	<0.83	<0.42	<0.26	<0.26	<0.27	<0.27
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	NA	<0.89	<0.37	<0.26	<0.26	<0.27	<1.1
Tetrachloroethene (PCE)	5	0.5	µg/L	<0.30	NA	NA	NA	<0.45	<0.47	<0.50	<0.50	<0.33	<0.33
Trichloroethene (TCE)	5	0.5	µg/L	<0.20	NA	NA	NA	<0.48	<0.43	<0.33	<0.33	<0.26	<0.26
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	NA	<0.18	<0.18	<0.18	<0.18	<0.17	<0.17
Inorganic Parameters													
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L	<10.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	<0.30	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L	277	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L	144	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements													
Temperature	-	-	°F	59.00	50.83	63.10	56.75	60.42	NA	52.01	48.57	60.05	61.6
Conductivity	-	-	µmhos/cm	NA	1,373	1,167	1,412	2,365	NA	1,785	631	2,157	2,892
pH	-	-	s.u.	NA	5.19	5.91	5.52	5.42	NA	5.02	5.90	6.16	5.32
Dissolved Oxygen	-	-	mg/L	3.84	2.84	3.58	1.80	4.13	NA	4.45	7.13	5.78	4.07
Oxidation Reduction Potential	-	-	mV	147	181	175.3	194.3	146.9	NA	115.4	54.7	175.2	235.7

Project Stalled

Project Stalled

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

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

Table 2g
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				MW7				REI	MW7R		
Sample Collected By				AECOM					REI	REI	
Date				11/20/2007	5/29/2008	8/11/2008	12/2/2008			11/7/2012	8/12/2013
VOC Parameters	ES	PAL	Unit								
Benzene	5	0.5	µg/l	<0.20	<0.310	<0.310	<0.310		<0.50		
Toluene	800	160	µg/l	<0.40	<0.300	<0.300	<0.300		<0.44		
Ethylbenzene	700	140	µg/l	<0.10	<0.500	<0.500	<0.500		<0.50		
Xylenes (mixed isomers)	2,000	400	µg/l	<0.60	<0.980	<0.980	<0.980		<0.82		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	<0.300	<0.300	<0.300		<0.49		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.20	<0.400	<0.400	<0.400		<2.5		
Naphthalene	100	10	µg/l	<1.00	<0.110	<0.121	<0.115		<2.5		
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.20	NA	NA	NA		<0.48		
cis-1,2-Dichloroethene	70	7	µg/L	<0.20	NA	NA	NA		<0.42		
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	NA	Well	<0.37		
Tetrachloroethene (PCE)	5	0.5	µg/L	<0.30	NA	NA	NA	Lost	<0.47		
Trichloroethene (TCE)	5	0.5	µg/L	<0.20	NA	NA	NA	to	<0.43		
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	NA	Road	<0.18		
Inorganic Parameters								Construction			
Dissolved Cadmium	5	0.5	µg/L	<0.20	NA	NA	NA		NA		
Dissolved Iron	300	150	µg/L	<10.0	NA	NA	NA		NA		
Dissolved Lead	15	1.5	µg/L	<0.30	<1.50	<0.60	<0.60		NA		
Dissolved Manganese	50	25	µg/L	492	NA	NA	NA		NA		
Total Nitrate/Nitrite as N	10	2	mg/L	<i>6.81</i>	NA	NA	NA		NA		
Total Sulfate	250	125	mg/L	312	NA	NA	NA		NA		
Field Measurements											
Temperature	-	-	°F	56.66	49.48	55.47	55.42		NA		
Conductivity	-	-	µmhos/cm	NA	2,018	2,532	2,926		NA		
pH	-	-	s.u.	NA	6.54	6.48	6.11		NA		
Dissolved Oxygen	-	-	mg/L	6.13	5.58	3.38	4.50		NA		
Oxidation Reduction Potential	-	-	mV	136	134.7	112.4	147.7		NA		

Project Stalled

Well Lost To Building Construction

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2h
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				MWB-7							
Sample Collected By				REI		REI					
Date				11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018		
VOC Parameters	ES	PAL	Unit								
Benzene	5	0.5	µg/l	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25		
Toluene	800	160	µg/l	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17		
Ethylbenzene	700	140	µg/l	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22		
Xylenes (mixed isomers)	2,000	400	µg/l	<1.8	<0.82	<1.50	<1.50	<1.50	<0.47		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87		
Naphthalene	100	10	µg/l	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2		
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	1.0	<0.48	<0.17	<0.17	<0.28	<0.28		
cis-1,2-Dichloroethene	70	7	µg/L	<0.83	<0.42	1.4	<0.26	<0.27	1.4		
trans-1,2-Dichloroethene	100	20	µg/L	<0.89	<0.37	<0.26	<0.26	<0.27	<0.26		
Tetrachloroethene (PCE)	5	0.5	µg/L	0.90 ^J	0.71 ^J	2.8	<0.50	<0.33	<0.33		
Trichloroethene (TCE)	5	0.5	µg/L	1.4	0.74 ^J	1.9	<0.33	<0.26	<0.26		
Vinyl chloride	0.2	0.02	µg/L	<0.18	<0.18	<0.18	<0.18	<0.17	<0.18		
Inorganic Parameters											
Dissolved Cadmium	5	0.5	µg/L	NA	NA	NA	NA	NA	NA		
Dissolved Iron	300	150	µg/L	NA	NA	NA	NA	NA	NA		
Dissolved Lead	15	1.5	µg/L	NA	NA	NA	NA	NA	NA		
Dissolved Manganese	50	25	µg/L	NA	NA	NA	NA	NA	NA		
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA	NA	NA	NA	NA		
Total Sulfate	250	125	mg/L	NA	NA	NA	NA	NA	NA		
Field Measurements											
Temperature	-	-	°F	60.23	NA	52.11	46.31	61.92	60.6		
Conductivity	-	-	µmhos/cm	2347	NA	17,700	44,168	46,941	50,083		
pH	-	-	s.u.	5.95	NA	5.84	4.53	7.25	5.70		
Dissolved Oxygen	-	-	mg/L	0.57	NA	3.1	5.01	3.86	1.07		
Oxidation Reduction Potential	-	-	mV	-12.3	NA	60.9	57.4	143.1	201.2		

Project Stalled

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2i
Summary of Groundwater Analytical Results
MW8
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				MW8								
Sample Collected By				AECOM			REI		REI			
Date				5/30/2008	8/11/2008	12/2/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit									
Benzene	5	0.5	µg/l	<0.20	<0.310	<0.310	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25
Toluene	800	160	µg/l	<0.40	<0.300	<0.300	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17
Ethylbenzene	700	140	µg/l	<0.20	<0.500	<0.500	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22
Xylenes (mixed isomers)	2,000	400	µg/l	<0.60	<0.980	<0.980	<1.8	<0.82	<1.50	<1.50	<1.50	<0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.50	<0.300	<0.300	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.20	<0.400	<0.400	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87
Naphthalene	100	10	µg/l	<1.00	<0.121	<0.110	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.30	NA	NA	<0.75	<0.48	<0.17	<0.17	<0.28	<0.28
cis-1,2-Dichloroethene	70	7	µg/L	<0.30	NA	NA	<0.83	<0.42	<0.26	<0.26	<1.1	<0.27
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	<0.89	<0.37	<0.26	<0.26	<1.1	<1.1
Tetrachloroethene (PCE)	5	0.5	µg/L	<0.30	NA	NA	<0.45	<0.47	<0.50	<0.50	<0.33	<0.33
Trichloroethene (TCE)	5	0.5	µg/L	<0.40	NA	NA	<0.48	<0.43	<0.33	<0.33	<0.26	<0.26
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Inorganic Parameters												
Dissolved Cadmium	5	0.5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Field Measurements												
Temperature	-	-	°F	49.23	56.48	55.53	57.19	NA	49.42	44.34	57.36	59.70
Conductivity	-	-	µmhos/cm	1,220	1,017	1,164	1,077	NA	840	1,156	1,205	1,697
pH	-	-	s.u.	6.09	6.10	5.68	5.61	NA	5.75	5.88	6.48	6.15
Dissolved Oxygen	-	-	mg/L	6.73	6.36	2.20	3.38	NA	10.24	10.05	5.25	7.43
Oxidation Reduction Potential	-	-	mV	120.7	139.5	190.8	38.5	NA	76.7	43.5	159.2	120.9

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2j
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				MW9			Well Lost To Road Construction
Sample Collected By				AECOM			
Date				5/30/2008	8/11/2008	12/2/2008	
VOC Parameters	ES	PAL	Unit				
Benzene	5	0.5	µg/l	<0.20	<0.310	<0.310	
Toluene	800	160	µg/l	<0.40	<0.300	<0.300	
Ethylbenzene	700	140	µg/l	<0.20	<0.500	<0.500	
Xylenes (mixed isomers)	2,000	400	µg/l	<0.60	<0.980	<0.980	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.50	<0.300	<0.300	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.20	<0.400	<0.400	
Naphthalene	100	10	µg/l	<1.00	<0.118	<0.112	
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.30	NA	NA	
cis-1,2-Dichloroethene	70	7	µg/L	<0.30	NA	NA	
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	
Tetrachloroethene (PCE)	5	0.5	µg/L	<0.30	NA	NA	
Trichloroethene (TCE)	5	0.5	µg/L	<0.40	NA	NA	
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	
Inorganic Parameters							
Dissolved Cadmium	5	0.5	µg/L	NA	NA	NA	
Dissolved Iron	300	150	µg/L	NA	NA	NA	
Dissolved Lead	15	1.5	µg/L	<0.60	<0.60	<0.60	
Dissolved Manganese	50	25	µg/L	NA	NA	NA	
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA	NA	
Total Sulfate	250	125	mg/L	NA	NA	NA	
Field Measurements							
Temperature	-	-	°F	49.98	56.55	54.41	
Conductivity	-	-	µmhos/cm	1,220	1,322	1,135	
pH	-	-	s.u.	6.43	6.45	6.41	
Dissolved Oxygen	-	-	mg/L	4.96	4.11	2.47	
Oxidation Reduction Potential	-	-	mV	81.9	125.5	103.5	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2k
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				MW10						
Sample Collected By				REI		Project Stalled	REI		Well Lost To Building Construction	
Date				11/7/2012	8/12/2013		1/10/2018	4/26/2018		7/19/2018
VOC Parameters	ES	PAL	Unit							
Benzene	5	0.5	µg/l	<0.41	<0.50		<0.50	<0.50		
Toluene	800	160	µg/l	<0.67	<0.44		<0.50	<0.50		
Ethylbenzene	700	140	µg/l	<0.54	<0.50		<0.50	<0.50		
Xylenes (mixed isomers)	2,000	400	µg/l	<1.8	<0.82		<1.50	<1.50		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.61	<0.49		<0.17	<0.17		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.97	<2.5		<0.50	<0.50		
Naphthalene	100	10	µg/l	<0.89	<2.5		<2.5	<2.5		
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.36	<0.48		<0.17	<0.17		
cis-1,2-Dichloroethene	70	7	µg/L	16.3	4.8		2.8	2.8		
trans-1,2-Dichloroethene	100	20	µg/L	<0.89	<0.37		<0.26	<0.26		
Tetrachloroethene (PCE)	5	0.5	µg/L	272	62.3		7.9	8.5		
Trichloroethene (TCE)	5	0.5	µg/L	27.7	13.2		4.3	4.3		
Vinyl chloride	0.2	0.02	µg/L	<0.18	<0.18		<0.18	<0.18		
Inorganic Parameters										
Dissolved Cadmium	5	0.5	µg/L	NA	NA		NA	NA		
Dissolved Iron	300	150	µg/L	NA	NA		NA	NA		
Dissolved Lead	15	1.5	µg/L	NA	NA		NA	NA		
Dissolved Manganese	50	25	µg/L	NA	NA		NA	NA		
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA		NA	NA		
Total Sulfate	250	125	mg/L	NA	NA		NA	NA		
Field Measurements										
Temperature	-	-	°F	56.55	NA		51.87	48.71		
Conductivity	-	-	µmhos/cm	760	NA		723	813		
pH	-	-	s.u.	6.3	NA		6.04	5.97		
Dissolved Oxygen	-	-	mg/L	7.2	NA		5.37	7.32		
Oxidation Reduction Potential	-	-	mV	127.1	NA		82.1	22.7		

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 21
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				PZ1											
Sample Collected By				AECOM			REI		REI						
Date				5/29/2008	8/11/2008	12/3/2008	11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018			
VOC Parameters	ES	PAL	Unit												
Benzene	5	0.5	µg/l	45.8	5.14	<i>0.990^J</i>	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25			
Toluene	800	160	µg/l	1.49	1.01	<i>0.576^J</i>	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17			
Ethylbenzene	700	140	µg/l	4.29	<0.500	<0.500	<0.54	<0.50	<0.50	<0.22	<0.22	<0.22			
Xylenes (mixed isomers)	2,000	400	µg/l	19.71	1.10 ^J	<i>0.983^J</i>	<1.8	<0.82	<1.5	<1.5	<1.5	<0.47			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.50	<0.300	<0.300	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	21.82	<i>0.955^J</i>	<0.310	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87			
Naphthalene	100	10	µg/l	7.56	0.361	<0.112	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2			
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<i>2.72</i>	NA	NA	<0.36	<0.48	<0.17	<0.17	<0.28	<0.28			
cis-1,2-Dichloroethene	70	7	µg/L	<i>0.36^J</i>	NA	NA	<0.83	<0.42	<0.26	<0.26	<0.27	<0.27			
trans-1,2-Dichloroethene	100	20	µg/L	<0.20	NA	NA	<0.89	<0.37	<0.26	<0.26	<1.1	<1.1			
Tetrachloroethene (PCE)	5	0.5	µg/L	<i>0.45^J</i>	NA	NA	<0.45	<0.47	<i>1.0</i>	<0.50	<0.33	<0.33			
Trichloroethene (TCE)	5	0.5	µg/L	<0.40	NA	NA	<0.48	<0.43	<i>0.51^J</i>	<0.33	<0.26	<0.26			
Vinyl chloride	0.2	0.02	µg/L	<0.20	NA	NA	<0.18	<0.18	<0.18	<0.18	<0.17	<0.17			
Inorganic Parameters															
Dissolved Cadmium	5	0.5	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Dissolved Iron	300	150	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Dissolved Lead	15	1.5	µg/L	<0.60	1.21 ^J	<0.60	NA	NA	NA	NA	NA	NA			
Dissolved Manganese	50	25	µg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Total Sulfate	250	125	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Field Measurements															
Temperature	-	-	°F	53.51	54.75	51.35	55.55	NA	53.86	52.90	54.92	59.10			
Conductivity	-	-	µmhos/cm	563	570	615	608	NA	530	1,150	885	640			
pH	-	-	s.u.	7.37	7.37	7.21	7.41	NA	7.60	6.86	8.00	7.49			
Dissolved Oxygen	-	-	mg/L	0.43	0.19	0.19	0.39	NA	0.67	2.52	2.41	0.48			
Oxidation Reduction Potential	-	-	mV	-87.6	-154.5	-84.4	-30.7	NA	-19.7	-7.8	106.5	113.7			

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

µg/l = parts per billion

Enforcement Standard exceeded

BOLD

Preventive Action Limit exceeded

Italics

NA = Not Analyzed

NS = Not Sampled

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

Table 2m
Summary of Groundwater Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Sample Location				PZ2					
Sample Collected By				REI		REI			
Date				11/7/2012	8/12/2013	1/10/2018	4/26/2018	7/19/2018	10/18/2018
VOC Parameters	ES	PAL	Unit						
Benzene	5	0.5	µg/l	<0.41	<0.50	<0.50	<0.50	<0.25	<0.25
Toluene	800	160	µg/l	<0.67	<0.44	<0.50	<0.50	<0.17	<0.17
Ethylbenzene	700	140	µg/l	<0.54	<0.50	<0.50	<0.50	<0.22	<0.22
Xylenes (mixed isomers)	2,000	400	µg/l	<1.8	<0.82	<1.5	<1.5	<1.5	<0.47
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	<0.61	<0.49	<0.17	<0.17	<1.2	<1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	<0.97	<2.5	<0.50	<0.50	<0.87	<0.87
Naphthalene	100	10	µg/l	<0.89	<2.5	<2.5	<2.5	<1.2	<1.2
1,2-Dichloroethane (1,2-DCA)	5	0.5	µg/L	<0.36	<0.48	<0.17	<0.17	<0.17	<0.28
cis-1,2-Dichloroethene	70	7	µg/L	<0.83	<0.42	<0.26	0.89 ^J	<0.27	<0.27
trans-1,2-Dichloroethene	100	20	µg/L	<0.89	<0.37	<0.26	<0.26	<0.26	<1.1
Tetrachloroethene (PCE)	5	0.5	µg/L	<i>2.1</i>	<0.47	<i>1.3</i>	<i>2.5</i>	<i>0.88^J</i>	<i>0.38^J</i>
Trichloroethene (TCE)	5	0.5	µg/L	<i>0.93^J</i>	<0.43	<i>0.62^J</i>	<i>1.6</i>	<i>0.32^J</i>	<i>0.27^J</i>
Vinyl chloride	0.2	0.02	µg/L	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17
Inorganic Parameters									
Dissolved Cadmium	5	0.5	µg/L	NA	NA	NA	NA	NA	NA
Dissolved Iron	300	150	µg/L	NA	NA	NA	NA	NA	NA
Dissolved Lead	15	1.5	µg/L	NA	NA	NA	NA	NA	NA
Dissolved Manganese	50	25	µg/L	NA	NA	NA	NA	NA	NA
Total Nitrate/Nitrite as N	10	2	mg/L	NA	NA	NA	NA	NA	NA
Total Sulfate	250	125	mg/L	NA	NA	NA	NA	NA	NA
Field Measurements									
Temperature	-	-	°F	56.39	NA	55.21	55.44	52.58	56.7
Conductivity	-	-	µmhos/cm	1293	NA	1,065	1,359	1,397	1,852
pH	-	-	s.u.	6.7	NA	6.71	5.50	7.19	6.60
Dissolved Oxygen	-	-	mg/L	2.98	NA	6.53	5.33	1.59	0.52
Oxidation Reduction Potential	-	-	mV	99.7	NA	56.8	23.7	140.5	172.8

Project Stalled

Notes:

- ES = NR140.10 Enforcement Standards
- PAL = NR140.10 Preventive Action Limits
- µg/l = parts per billion
- Enforcement Standard exceeded
- Preventive Action Limit exceeded
- NA = Not Analyzed
- NS = Not Sampled

BOLD
<i>Italics</i>

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

Table 3
Sub Slab Vapor Analytical Results
Pioneer Bank / Former Texaco Station
Marshfield, Wisconsin

Small Commercial Building (Attenuation Factor 0.03)		8/12/2013	1/10/2018
Chemical ($\mu\text{g}/\text{m}^3$)	SS-VRSL	VP-1	
Acetone		274	21.8
Benzene	530	12.6	1.5
2-Butanone (MEK)		55.4	<0.39
Carbon Disulfide		6.3	<0.34
Cyclohexane		9.5	50.6
Dichlorodifluoromethane	15,000	2.3	<0.80
Ethylbenzene	1,600	12.2	13.9
4-Ethyltoluene		6.2	40.9
n-Heptane		13.4	33.3
n-Hexane		26.4	6.8
2-Hexanone		6.5	<1.2
Methylene Chloride	87,000	3.5	<2.9
Propylene		16.9	<0.30
Tetrachloroethene	6,000	79.6	267
Toluene	730,000	148	26.8
Trichloroethene	290	7.4	19.1
Trichlorofluoromethane		137	26.3
1,2,4-Trimethylbenzene	8,700	19	257
1,3,5-Trimethylbenzene	8,700	5.3	194
Vinyl Chloride	930	<0.53	<0.24
m&p-Xylene		47	147
o-Xylene		15.1	143
Xylene (Total)	15,000	62.1	290

Notes:

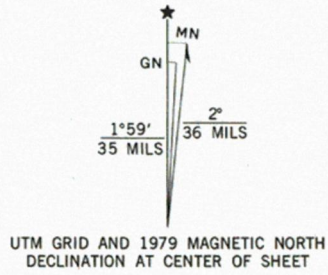
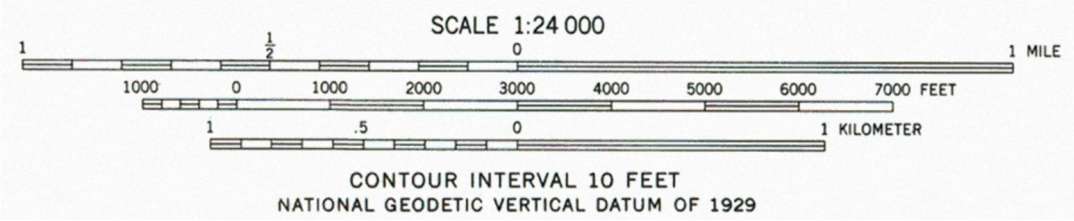
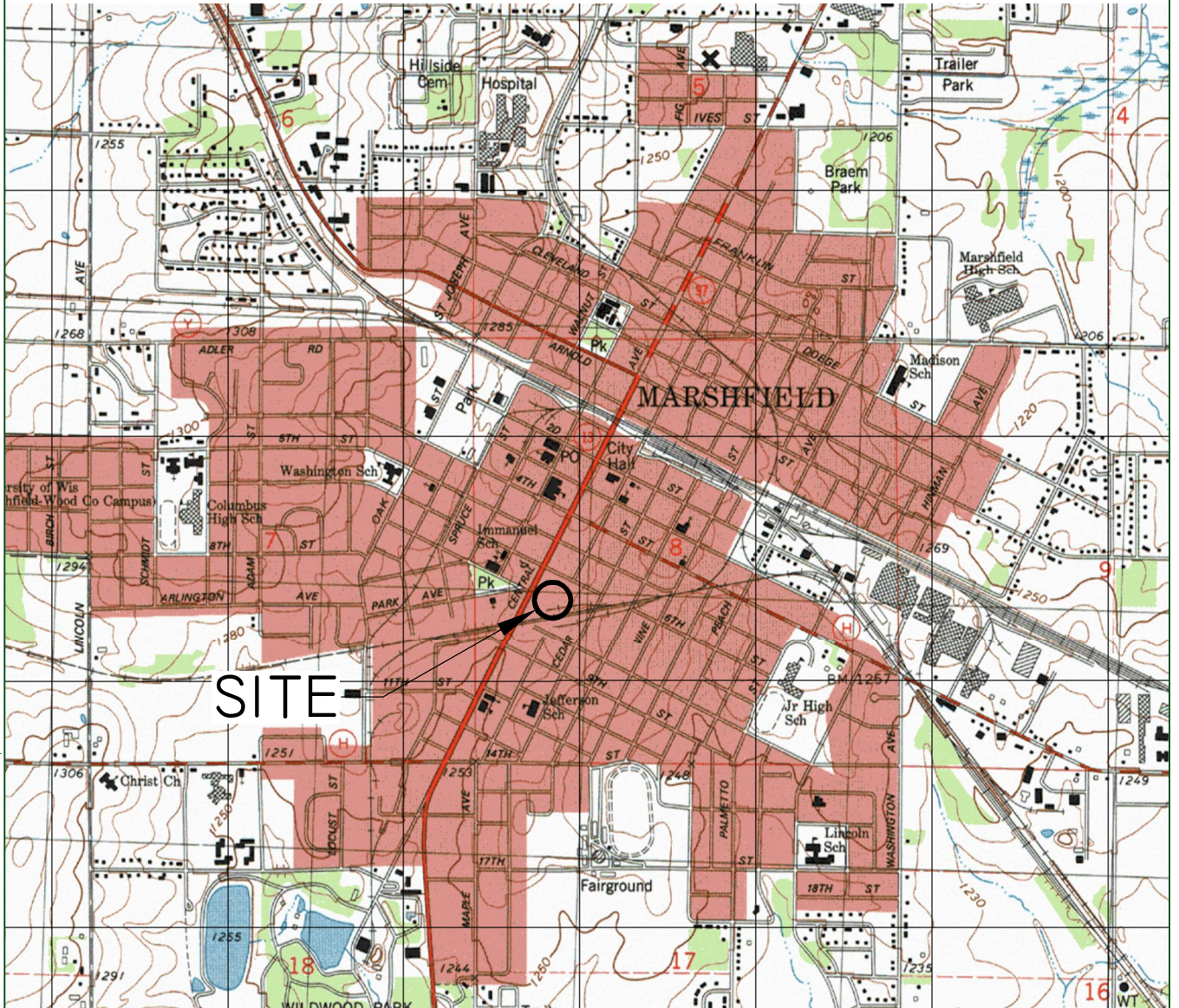
Sub-Slab Vapor Risk Screening Levels Based on November 2017

U.S. EPA Regional Screening Level Summary Table

Exceeds Sub-Slab Vapor Risk Screening Level

^J - Estimated concentration at or above the Limit of Detection and below the Limit of Quantification

DRAWING FILE: P:\54.00-54.99\54.03-PIONEER BANK\DWG\54.03-VICN.DWG LAYOUT: VICN PLOTTED: FEB 24, 2017 - 9:15AM PLOTTED BY: TODDW



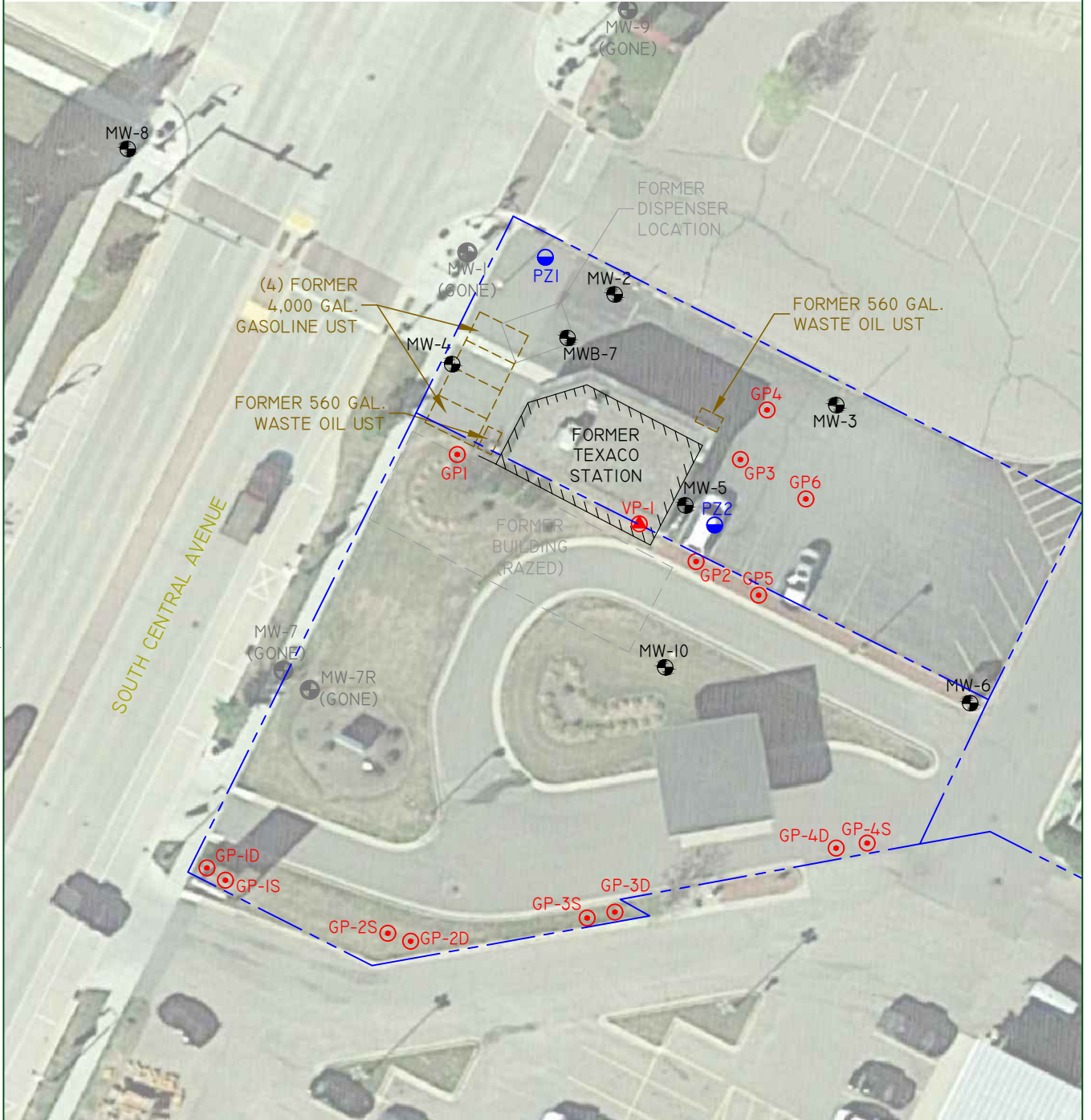
MARSHFIELD, WIS.
NW/4 MARSHFIELD 15' QUADRANGLE
N4437.5-W9007.5/7.5

1979
REI Engineering, INC.

PIONEER BANK
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WISCONSIN

FIGURE 1 : SITE VICINITY MAP		DATE:
PROJECT NO.	DRAWN BY:	2/24/2017
5403	TAW	

DRAWING FILE: P:\54.00-5499\54.03 - PIONEER BANK DERF\DWG\54.03-SITE.DWG LAYOUT: SITE PLOTTED: FEB 12, 2018 - 11:26AM PLOTTED BY: MATTM



LEGEND

0 40
SCALE: 1" = 40'

- PIEZOMETER
- MONITORING WELL
- MONITORING WELL (GONE)
- GEOPROBE SOIL BORING
- SUB-SLAB VAPOR SAMPLE
- APPROXIMATE PROPERTY LINE

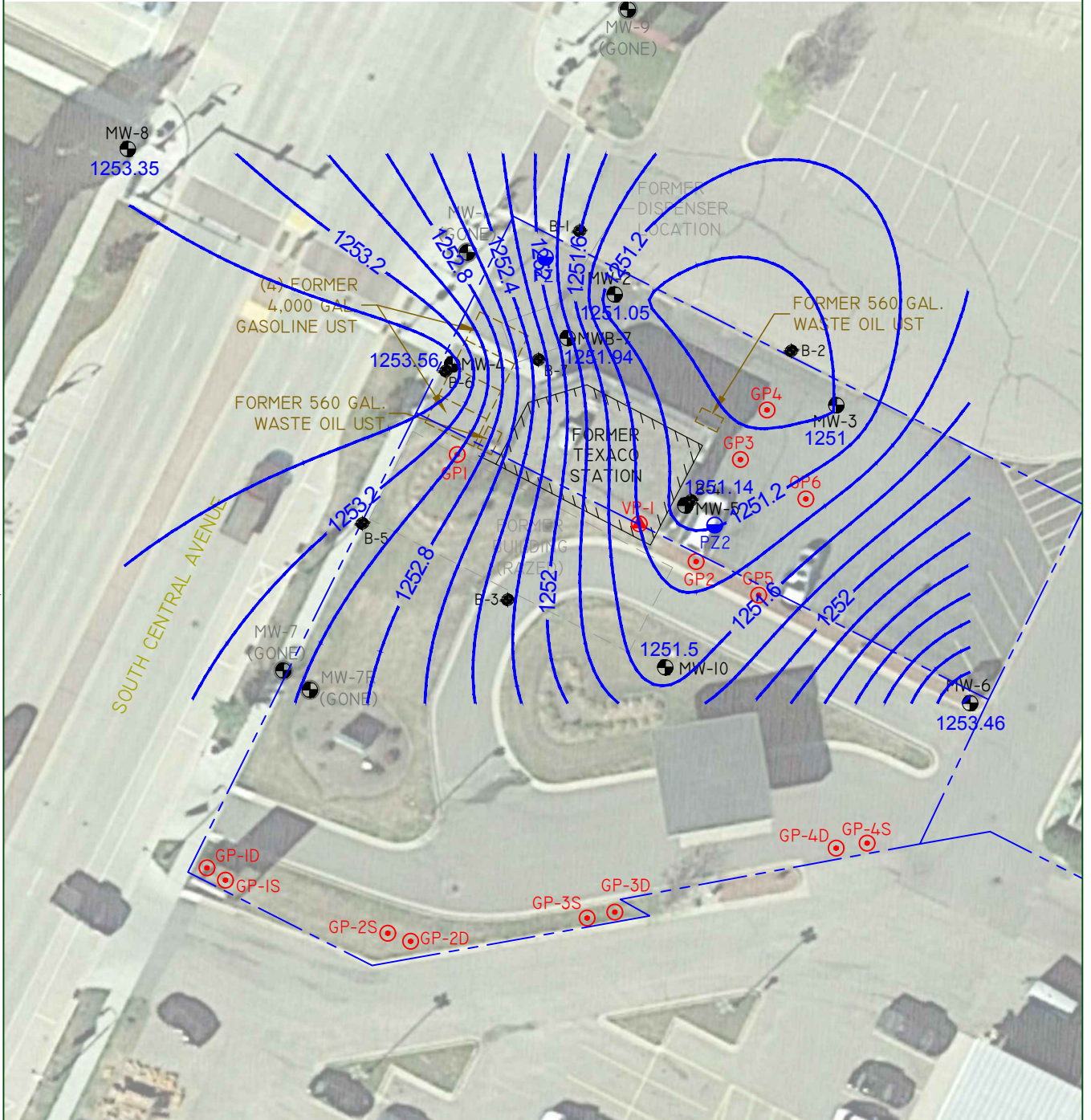


REI Engineering, INC.

PIONEER BANK
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WISCONSIN

FIGURE 2 : DETAILED SITE MAP			
PROJECT NO.	5403	DRAWN BY:	DATE:
		MCM	2/12/2018

DRAWING FILE: P:\5400-5499\5403 - PIONEER BANK DERF\DWG\5403-GW-042618.dwg LAYOUT: SITE PLOTTED: FEB 02, 2019 - 2:04PM PLOTTED BY: MATTY



LEGEND

0 40
SCALE: 1" = 40'

- MONITORING WELL
- PIEZOMETER
- TEMPORARY WELLS (AECOM) - ABANDONED
- MONITORING WELL (GONE)
- GEOPROBE SOIL BORING
- SUB-SLAB VAPOR SAMPLE
- APPROXIMATE PROPERTY LINE
- GROUNDWATER CONTOUR LINE



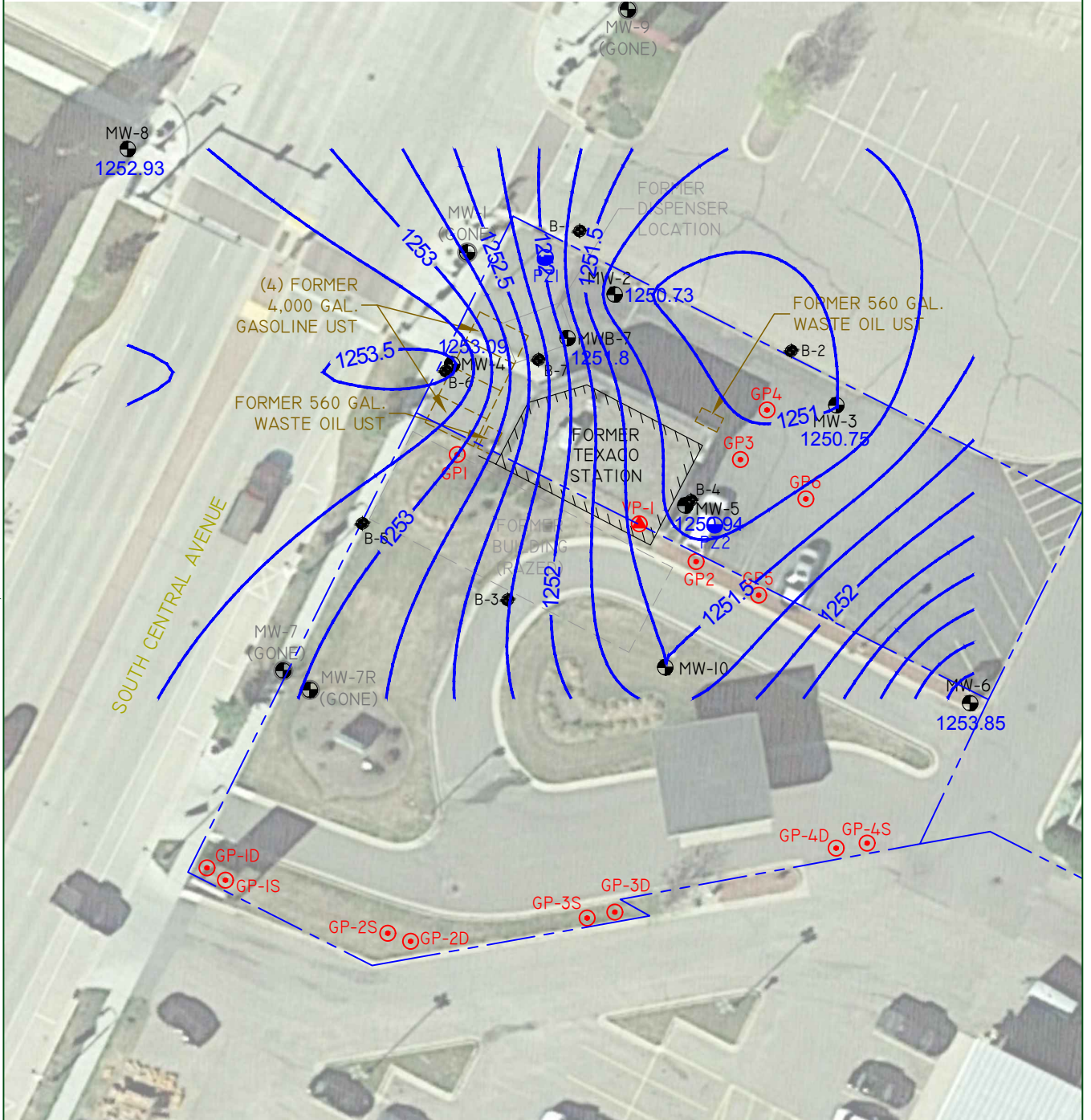
NOTE:
GROUNDWATER ELEVATION
DATA IS PRESENTED IN FEET
MEAN SEA LEVEL (MSL).

REI Engineering, INC.

PIONEER BANK
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WISCONSIN

FIGURE 3 : GROUNDWATER CONTOUR MAP (4/26/2018)			
PROJECT NO.	5403	DRAWN BY:	DATE:
		MCM	2/2/2019

DRAWING FILE: P:\5400-5499\5403 - PIONEER BANK DERF\DWG\5403-GW-071918.DWG LAYOUT: SITE PLOTTED: FEB 02, 2019 - 2:10PM PLOTTED BY: MATTM



LEGEND

0 40
SCALE: 1" = 40'

- MONITORING WELL
- PIEZOMETER
- TEMPORARY WELLS (AECOM) - ABANDONED
- MONITORING WELL (GONE)
- GEOPROBE SOIL BORING
- SUB-SLAB VAPOR SAMPLE
- APPROXIMATE PROPERTY LINE
- GROUNDWATER CONTOUR LINE



NOTE:
GROUNDWATER ELEVATION
DATA IS PRESENTED IN FEET
MEAN SEA LEVEL (MSL).

REI Engineering, INC.

PIONEER BANK
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WISCONSIN

FIGURE 4 : GROUNDWATER CONTOUR MAP (7/19/2018)			
PROJECT NO.	5403	DRAWN BY:	DATE:
		MCM	2/2/2019

DRAWING FILE: P:\5400-5499\5403 - PIONEER BANK DERF\DWG\5403-GW-101818.DWG LAYOUT: SITE PLOTTED: FEB 02, 2019 - 2:18PM PLOTTED BY: MATTM



LEGEND

0 40
SCALE: 1" = 40'

- MONITORING WELL
- PIEZOMETER
- TEMPORARY WELLS (AECOM) - ABANDONED
- MONITORING WELL (GONE)
- GEOPROBE SOIL BORING
- SUB-SLAB VAPOR SAMPLE
- APPROXIMATE PROPERTY LINE
- GROUNDWATER CONTOUR LINE



NOTE:
GROUNDWATER ELEVATION
DATA IS PRESENTED IN FEET
MEAN SEA LEVEL (MSL).

REI Engineering, INC.

PIONEER BANK
701 SOUTH CENTRAL AVENUE
MARSHFIELD, WISCONSIN

FIGURE 5 :GROUNDWATER CONTOUR MAP (10/18/2018)

PROJECT NO.	5403	DRAWN BY:	MCM	DATE:	2/2/2019
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APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL REPORT



May 02, 2018

Brian Bailey
REI Engineering
4080 North 20th Ave
Wausau, WI 54401

RE: Project: 5403 PIONEER BANK
Pace Project No.: 40168231

Dear Brian Bailey:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

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: 5403 PIONEER BANK

Pace Project No.: 40168231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168231001	MW-2	Water	04/26/18 11:45	04/28/18 07:55
40168231002	MW-3	Water	04/26/18 10:45	04/28/18 07:55
40168231003	MW-4	Water	04/26/18 12:45	04/28/18 07:55
40168231004	MW-5	Water	04/26/18 11:00	04/28/18 07:55
40168231005	MW-6	Water	04/26/18 10:30	04/28/18 07:55
40168231006	MWB-7	Water	04/26/18 12:00	04/28/18 07:55
40168231007	MW-8	Water	04/26/18 10:00	04/28/18 07:55
40168231008	MW-10	Water	04/26/18 10:15	04/28/18 07:55
40168231009	PZ-1	Water	04/26/18 12:30	04/28/18 07:55
40168231010	PZ-2	Water	04/26/18 11:30	04/28/18 07:55

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SAMPLE ANALYTE COUNT

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168231001	MW-2	EPA 8260	LAP	13
40168231002	MW-3	EPA 8260	LAP	13
40168231003	MW-4	EPA 8260	LAP	13
40168231004	MW-5	EPA 8260	LAP	13
40168231005	MW-6	EPA 8260	LAP	13
40168231006	MWB-7	EPA 8260	LAP	13
40168231007	MW-8	EPA 8260	LAP	13
40168231008	MW-10	EPA 8260	LAP	13
40168231009	PZ-1	EPA 8260	LAP	13
40168231010	PZ-2	EPA 8260	LAP	13

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Sample: MW-2 **Lab ID: 40168231001** Collected: 04/26/18 11:45 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 18:22	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 18:22	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 18:22	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 18:22	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		05/01/18 18:22	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		05/01/18 18:22	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		05/01/18 18:22	2037-26-5	

Sample: MW-3 **Lab ID: 40168231002** Collected: 04/26/18 10:45 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 18:45	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 18:45	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 18:45	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 18:45	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 18:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		05/01/18 18:45	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		05/01/18 18:45	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/01/18 18:45	2037-26-5	

Sample: MW-4 **Lab ID: 40168231003** Collected: 04/26/18 12:45 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	436	ug/L	5.0	2.5	5		05/02/18 07:57	95-63-6	
1,3,5-Trimethylbenzene	134	ug/L	5.0	2.5	5		05/02/18 07:57	108-67-8	
Benzene	35.7	ug/L	5.0	2.5	5		05/02/18 07:57	71-43-2	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Sample: MW-4 Lab ID: 40168231003 Collected: 04/26/18 12:45 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	540	ug/L	5.0	2.5	5		05/02/18 07:57	100-41-4	
Methyl-tert-butyl ether	<0.87	ug/L	5.0	0.87	5		05/02/18 07:57	1634-04-4	
Naphthalene	83.9	ug/L	25.0	12.5	5		05/02/18 07:57	91-20-3	
Toluene	11.2	ug/L	5.0	2.5	5		05/02/18 07:57	108-88-3	
Xylene (Total)	887	ug/L	15.0	7.5	5		05/02/18 07:57	1330-20-7	
m&p-Xylene	847	ug/L	10.0	5.0	5		05/02/18 07:57	179601-23-1	
o-Xylene	40.7	ug/L	5.0	2.5	5		05/02/18 07:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		5		05/02/18 07:57	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		5		05/02/18 07:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		05/02/18 07:57	2037-26-5	

Sample: MW-5 Lab ID: 40168231004 Collected: 04/26/18 11:00 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:22	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:22	108-67-8	
Benzene	3.3	ug/L	1.0	0.50	1		05/01/18 21:22	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:22	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 21:22	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 21:22	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:22	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 21:22	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 21:22	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		05/01/18 21:22	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		05/01/18 21:22	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/01/18 21:22	2037-26-5	

Sample: MW-6 Lab ID: 40168231005 Collected: 04/26/18 10:30 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 19:07	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 19:07	91-20-3	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 40168231005 Collected: 04/26/18 10:30 Received: 04/28/18 07:55 Matrix: Water									
Analytical Method: EPA 8260									
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 19:07	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 19:07	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		05/01/18 19:07	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		05/01/18 19:07	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		05/01/18 19:07	2037-26-5	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MWB-7 Lab ID: 40168231006 Collected: 04/26/18 12:00 Received: 04/28/18 07:55 Matrix: Water									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 19:30	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 19:30	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 19:30	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 19:30	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	61-130		1		05/01/18 19:30	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		05/01/18 19:30	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/18 19:30	2037-26-5	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-8 Lab ID: 40168231007 Collected: 04/26/18 10:00 Received: 04/28/18 07:55 Matrix: Water									
Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 19:52	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 19:52	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 19:52	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 19:52	179601-23-1	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Sample: MW-8 **Lab ID: 40168231007** Collected: 04/26/18 10:00 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 19:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		05/01/18 19:52	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		05/01/18 19:52	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/18 19:52	2037-26-5	

Sample: MW-10 **Lab ID: 40168231008** Collected: 04/26/18 10:15 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 20:15	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 20:15	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 20:15	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 20:15	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		05/01/18 20:15	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		05/01/18 20:15	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		05/01/18 20:15	2037-26-5	

Sample: PZ-1 **Lab ID: 40168231009** Collected: 04/26/18 12:30 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 20:37	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 20:37	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 20:37	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 20:37	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 20:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		05/01/18 20:37	460-00-4	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Sample: PZ-1 **Lab ID: 40168231009** Collected: 04/26/18 12:30 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Surrogates									
Dibromofluoromethane (S)	116	%	67-130		1		05/01/18 20:37	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/18 20:37	2037-26-5	

Sample: PZ-2 **Lab ID: 40168231010** Collected: 04/26/18 11:30 Received: 04/28/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	108-67-8	
Benzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	71-43-2	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	100-41-4	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		05/01/18 21:00	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		05/01/18 21:00	91-20-3	
Toluene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	108-88-3	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		05/01/18 21:00	1330-20-7	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		05/01/18 21:00	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		05/01/18 21:00	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		05/01/18 21:00	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		05/01/18 21:00	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		05/01/18 21:00	2037-26-5	

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QUALITY CONTROL DATA

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

QC Batch: 287378 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40168231001, 40168231002, 40168231003, 40168231004, 40168231005, 40168231006, 40168231007, 40168231008, 40168231009, 40168231010

METHOD BLANK: 1681568 Matrix: Water
 Associated Lab Samples: 40168231001, 40168231002, 40168231003, 40168231004, 40168231005, 40168231006, 40168231007, 40168231008, 40168231009, 40168231010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	05/01/18 13:07	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	05/01/18 13:07	
Benzene	ug/L	<0.50	1.0	05/01/18 13:07	
Ethylbenzene	ug/L	<0.50	1.0	05/01/18 13:07	
m&p-Xylene	ug/L	<1.0	2.0	05/01/18 13:07	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	05/01/18 13:07	
Naphthalene	ug/L	<2.5	5.0	05/01/18 13:07	
o-Xylene	ug/L	<0.50	1.0	05/01/18 13:07	
Toluene	ug/L	<0.50	1.0	05/01/18 13:07	
Xylene (Total)	ug/L	<1.5	3.0	05/01/18 13:07	
4-Bromofluorobenzene (S)	%	89	61-130	05/01/18 13:07	
Dibromofluoromethane (S)	%	106	67-130	05/01/18 13:07	
Toluene-d8 (S)	%	95	70-130	05/01/18 13:07	

LABORATORY CONTROL SAMPLE: 1681569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.3	111	73-145	
Ethylbenzene	ug/L	50	58.2	116	87-129	
m&p-Xylene	ug/L	100	120	120	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	66-143	
o-Xylene	ug/L	50	58.6	117	70-130	
Toluene	ug/L	50	54.5	109	82-130	
Xylene (Total)	ug/L	150	178	119	70-130	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681932 1681933

Parameter	Units	40168205002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MS Result	MSD Result						
Benzene	ug/L	<0.50	50	50	54.4	54.4	109	109	73-145	0	20	
Ethylbenzene	ug/L	<0.50	50	50	57.3	58.0	115	116	87-129	1	20	
m&p-Xylene	ug/L	<1.0	100	100	120	123	120	123	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	51.8	51.2	104	102	66-143	1	20	
o-Xylene	ug/L	<0.50	50	50	59.8	61.6	120	123	70-130	3	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1681932		1681933		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40168205002 Result	MS Spike Conc.	MSD Spike Conc.									
Toluene	ug/L	<0.50	50	50	54.1	52.4	108	105	82-131	3	20		
Xylene (Total)	ug/L	<1.5	150	150	180	184	120	123	70-130	2	20		
4-Bromofluorobenzene (S)	%						104	106	61-130				
Dibromofluoromethane (S)	%						102	99	67-130				
Toluene-d8 (S)	%						98	97	70-130				

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

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QUALIFIERS

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5403 PIONEER BANK

Pace Project No.: 40168231

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168231001	MW-2	EPA 8260	287378		
40168231002	MW-3	EPA 8260	287378		
40168231003	MW-4	EPA 8260	287378		
40168231004	MW-5	EPA 8260	287378		
40168231005	MW-6	EPA 8260	287378		
40168231006	MWB-7	EPA 8260	287378		
40168231007	MW-8	EPA 8260	287378		
40168231008	MW-10	EPA 8260	287378		
40168231009	PZ-1	EPA 8260	287378		
40168231010	PZ-2	EPA 8260	287378		

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(Please Print Clearly)

Company Name: REI
 Branch/Location: Wausau
 Project Contact: Brian Bailey
 Phone: (715) 675-9784
 Project Number: 5403
 Project Name: Pioneer Bank
 Project State: WI
 Sampled By (Print): Jed Kosch
 Sampled By (Sign): *Jed Kosch*



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40168231

CHAIN OF CUSTODY

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

Quote #: [Blank]
 Mail To Contact: Brian Bailey
 Mail To Company: REI
 Mail To Address: BBAiley@reiengineering.com
 Invoice To Contact: SAA
 Invoice To Company: [Blank]
 Invoice To Address: [Blank]
 Invoice To Phone: [Blank]
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested
N	B	PUDCTN

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-2	4/26/18	11:45	GW
002	MW-3		10:45	
003	MW-4		12:45	
004	MW-5		11:00	
005	MW-6		10:30	
006	MWB-7		12:00	
007	MW-8		10:00	
008	MW-10		10:15	
009	PZ-1		12:30	
010	PZ-2		11:30	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: [Blank]
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: <i>Jed Kosch</i>	Date/Time: 4/27/18 2pm	Received By:	Date/Time:
Relinquished By: <i>Walter</i>	Date/Time: 4/28/18 0755	Received By: <i>RSellers pace</i>	Date/Time: 4/28/18 0755
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40168231
 Receipt Temp = *ROD* °C
 Sample Receipt pH
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Sample Preservation Receipt Form

Client Name: RED

Project # 40168231

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	BP3C	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																																		2.5 / 5 / 10
012																																		2.5 / 5 / 10
013																																		2.5 / 5 / 10
014																																		2.5 / 5 / 10
015																																		2.5 / 5 / 10
016																																		2.5 / 5 / 10
017																																		2.5 / 5 / 10
018																																		2.5 / 5 / 10
019																																		2.5 / 5 / 10
020																																		2.5 / 5 / 10

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	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	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres	BP3C 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	
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		ZPLC ziploc bag
			GN:

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO#: 40168231**

Client Name: RED

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



Tracking #: 1704943-1

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

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

Cooler Temperature Uncorr: ROS ICorr: _____

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

Person examining contents:
Date: <u>4/28/18</u>
Initials: <u>RS</u>

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

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

Project Manager Review: [Signature] Date: 4-30-18

July 24, 2018

Brian Bailey
REI Engineering
4080 North 20th Ave
Wausau, WI 54401

RE: Project: 5403 PIONEER BANK
Pace Project No.: 40172805

Dear Brian Bailey:

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

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

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: 5403 PIONEER BANK

Pace Project No.: 40172805

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40172805001	MW-2	Water	07/19/18 10:45	07/20/18 08:50
40172805002	MW-3	Water	07/19/18 09:20	07/20/18 08:50
40172805003	MW-4	Water	07/19/18 12:00	07/20/18 08:50
40172805004	MW-5	Water	07/19/18 09:40	07/20/18 08:50
40172805005	MW-6	Water	07/19/18 08:55	07/20/18 08:50
40172805006	MW-7	Water	07/19/18 11:20	07/20/18 08:50
40172805007	MW-8	Water	07/19/18 08:30	07/20/18 08:50
40172805008	PZ-1	Water	07/19/18 11:40	07/20/18 08:50
40172805009	PZ-2	Water	07/19/18 10:15	07/20/18 08:50

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SAMPLE ANALYTE COUNT

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40172805001	MW-2	EPA 8260	HNW	11
40172805002	MW-3	EPA 8260	HNW	11
40172805003	MW-4	EPA 8260	HNW	11
40172805004	MW-5	EPA 8260	HNW	11
40172805005	MW-6	EPA 8260	HNW	11
40172805006	MW-7	EPA 8260	HNW	11
40172805007	MW-8	EPA 8260	HNW	11
40172805008	PZ-1	EPA 8260	HNW	11
40172805009	PZ-2	EPA 8260	HNW	11

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

Sample: MW-2 Lab ID: 40172805001 Collected: 07/19/18 10:45 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 11:01	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 11:01	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 11:01	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 11:01	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 11:01	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 11:01	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 11:01	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 11:01	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		07/23/18 11:01	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		07/23/18 11:01	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/23/18 11:01	460-00-4	

Sample: MW-3 Lab ID: 40172805002 Collected: 07/19/18 09:20 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 11:43	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 11:43	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 11:43	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 11:43	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 11:43	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 11:43	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 11:43	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 11:43	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	92	%	70-130		1		07/23/18 11:43	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/23/18 11:43	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/23/18 11:43	460-00-4	

Sample: MW-4 Lab ID: 40172805003 Collected: 07/19/18 12:00 Received: 07/20/18 08:50 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	28.5	ug/L	4.1	1.2	5		07/23/18 11:22	71-43-2	
Ethylbenzene	441	ug/L	3.6	1.1	5		07/23/18 11:22	100-41-4	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		07/23/18 11:22	1634-04-4	
Naphthalene	74.3	ug/L	19.6	5.9	5		07/23/18 11:22	91-20-3	
Toluene	5.7	ug/L	2.9	0.86	5		07/23/18 11:22	108-88-3	
1,2,4-Trimethylbenzene	311	ug/L	14.0	4.2	5		07/23/18 11:22	95-63-6	
1,3,5-Trimethylbenzene	90.3	ug/L	14.6	4.4	5		07/23/18 11:22	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

Sample: MW-4 **Lab ID: 40172805003** Collected: 07/19/18 12:00 Received: 07/20/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Xylene (Total)	533	ug/L	15.0	7.5	5		07/23/18 11:22	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		5		07/23/18 11:22	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		07/23/18 11:22	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		5		07/23/18 11:22	460-00-4	

Sample: MW-5 **Lab ID: 40172805004** Collected: 07/19/18 09:40 Received: 07/20/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST Analytical Method: EPA 8260									
Benzene	170	ug/L	0.82	0.25	1		07/23/18 12:05	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 12:05	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 12:05	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 12:05	91-20-3	
Toluene	1.4	ug/L	0.57	0.17	1		07/23/18 12:05	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 12:05	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 12:05	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 12:05	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	97	%	70-130		1		07/23/18 12:05	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/23/18 12:05	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/23/18 12:05	460-00-4	

Sample: MW-6 **Lab ID: 40172805005** Collected: 07/19/18 08:55 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 18:10	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 18:10	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 18:10	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 18:10	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 18:10	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 18:10	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 18:10	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 18:10	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	100	%	70-130		1		07/23/18 18:10	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		07/23/18 18:10	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		07/23/18 18:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

Sample: MW-7 Lab ID: 40172805006 Collected: 07/19/18 11:20 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 18:31	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 18:31	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 18:31	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 18:31	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 18:31	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 18:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 18:31	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 18:31	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		07/23/18 18:31	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		07/23/18 18:31	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/23/18 18:31	460-00-4	

Sample: MW-8 Lab ID: 40172805007 Collected: 07/19/18 08:30 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 13:09	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 13:09	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 13:09	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 13:09	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 13:09	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 13:09	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 13:09	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 13:09	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		07/23/18 13:09	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/23/18 13:09	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		07/23/18 13:09	460-00-4	

Sample: PZ-1 Lab ID: 40172805008 Collected: 07/19/18 11:40 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 13:31	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 13:31	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 13:31	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 13:31	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 13:31	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 13:31	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 13:31	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK
Pace Project No.: 40172805

Sample: PZ-1 **Lab ID: 40172805008** Collected: 07/19/18 11:40 Received: 07/20/18 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST		Analytical Method: EPA 8260							
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 13:31	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	70-130		1		07/23/18 13:31	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/23/18 13:31	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		07/23/18 13:31	460-00-4	

Sample: PZ-2 **Lab ID: 40172805009** Collected: 07/19/18 10:15 Received: 07/20/18 08:50 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	0.82	0.25	1		07/23/18 13:52	71-43-2	
Ethylbenzene	<0.22	ug/L	0.73	0.22	1		07/23/18 13:52	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		07/23/18 13:52	1634-04-4	
Naphthalene	<1.2	ug/L	3.9	1.2	1		07/23/18 13:52	91-20-3	
Toluene	<0.17	ug/L	0.57	0.17	1		07/23/18 13:52	108-88-3	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		07/23/18 13:52	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		07/23/18 13:52	108-67-8	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		07/23/18 13:52	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	70-130		1		07/23/18 13:52	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		07/23/18 13:52	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		07/23/18 13:52	460-00-4	

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QUALITY CONTROL DATA

Project: 5403 PIONEER BANK

Pace Project No.: 40172805

QC Batch:	295100	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV UST-WATER
Associated Lab Samples:	40172805001, 40172805002, 40172805003, 40172805004, 40172805005, 40172805006, 40172805007, 40172805008, 40172805009		

METHOD BLANK:	1725828	Matrix:	Water
Associated Lab Samples:	40172805001, 40172805002, 40172805003, 40172805004, 40172805005, 40172805006, 40172805007, 40172805008, 40172805009		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	07/23/18 08:52	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	07/23/18 08:52	
Benzene	ug/L	<0.25	0.82	07/23/18 08:52	
Ethylbenzene	ug/L	<0.22	0.73	07/23/18 08:52	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	07/23/18 08:52	
Naphthalene	ug/L	<1.2	3.9	07/23/18 08:52	
Toluene	ug/L	<0.17	0.57	07/23/18 08:52	
Xylene (Total)	ug/L	<1.5	3.0	07/23/18 08:52	
4-Bromofluorobenzene (S)	%	96	70-130	07/23/18 08:52	
Dibromofluoromethane (S)	%	95	70-130	07/23/18 08:52	
Toluene-d8 (S)	%	98	70-130	07/23/18 08:52	

LABORATORY CONTROL SAMPLE: 1725829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.6	103	69-137	
Ethylbenzene	ug/L	50	55.2	110	86-127	
Methyl-tert-butyl ether	ug/L	50	49.0	98	65-136	
Toluene	ug/L	50	53.6	107	84-124	
Xylene (Total)	ug/L	150	166	111	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1726500 1726501

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40172805001 Result	Spike Conc.	Spike Conc.	MS Result						
Benzene	ug/L	<0.25	50	50	49.3	51.4	99	103	66-143	4	20
Ethylbenzene	ug/L	<0.22	50	50	53.1	55.1	106	110	81-136	4	20
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.0	49.6	94	99	58-142	5	23
Toluene	ug/L	<0.17	50	50	51.7	53.8	103	108	81-130	4	20
Xylene (Total)	ug/L	<1.5	150	150	159	167	106	111	70-134	5	20
4-Bromofluorobenzene (S)	%						101	97	70-130		
Dibromofluoromethane (S)	%						97	97	70-130		
Toluene-d8 (S)	%						99	97	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: 5403 PIONEER BANK

Pace Project No.: 40172805

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5403 PIONEER BANK

Pace Project No.: 40172805


Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40172805001	MW-2	EPA 8260	295100		
40172805002	MW-3	EPA 8260	295100		
40172805003	MW-4	EPA 8260	295100		
40172805004	MW-5	EPA 8260	295100		
40172805005	MW-6	EPA 8260	295100		
40172805006	MW-7	EPA 8260	295100		
40172805007	MW-8	EPA 8260	295100		
40172805008	PZ-1	EPA 8260	295100		
40172805009	PZ-2	EPA 8260	295100		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt Form (SCUR)

Client Name: R21
Courier: CS Logistics Fed Ex Speedee UPS **Waltco**
 Client Pace Other: _____

Project #: **WO# : 40172805**

40172805

Tracking #: 178 0087
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 - 22 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 1.0 /Corr: 1.0

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: 7/20/18
Initials: JM

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>duplicate COC</u>	<u>JM 7/20/18</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	<u>JM 7/20/18</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	<u>JM 7/20/18</u>
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.	<u>1006 - as 11 MWB-7</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>			<u>JM 7/20/18</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: Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments

Comments/ Resolution: viols shared w/ WO 40172806
JM 7/20/18

Project Manager Review: _____ Date: 7-20-18

January 30, 2019

Brian Bailey
REI Engineering
4080 North 20th Ave
Wausau, WI 54401

RE: Project: 5403 PIONEER BANK
Pace Project No.: 40178116

Dear Brian Bailey:

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

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

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: 5403 PIONEER BANK

Pace Project No.: 40178116

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178116001	MW-2	Water	10/18/18 11:45	10/20/18 08:30
40178116002	MW-3	Water	10/18/18 11:33	10/20/18 08:30
40178116003	MW-4	Water	10/18/18 12:20	10/20/18 08:30
40178116004	MW-5	Water	10/18/18 11:20	10/20/18 08:30
40178116005	MW-6	Water	10/18/18 10:37	10/20/18 08:30
40178116006	MWB-7	Water	10/18/18 11:55	10/20/18 08:30
40178116007	MW-8	Water	10/18/18 12:50	10/20/18 08:30
40178116008	PZ-1	Water	10/18/18 12:05	10/20/18 08:30
40178116009	PZ-2	Water	10/18/18 11:07	10/20/18 08:30

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SAMPLE ANALYTE COUNT

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40178116001	MW-2	EPA 8260	LAP	12
40178116002	MW-3	EPA 8260	LAP	12
40178116003	MW-4	EPA 8260	LAP	12
40178116004	MW-5	EPA 8260	LAP	12
40178116005	MW-6	EPA 8260	LAP	12
40178116006	MWB-7	EPA 8260	LAP	12
40178116007	MW-8	EPA 8260	LAP	12
40178116008	PZ-1	EPA 8260	LAP	12
40178116009	PZ-2	EPA 8260	LAP	12

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Sample: MW-2 Lab ID: 40178116001 Collected: 10/18/18 11:45 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 09:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 09:36	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 09:36	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 09:36	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 09:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 09:36	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 09:36	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 09:36	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 09:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/18 09:36	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		10/23/18 09:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/23/18 09:36	2037-26-5	

Sample: MW-3 Lab ID: 40178116002 Collected: 10/18/18 11:33 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 10:21	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 10:21	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 10:21	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 10:21	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 10:21	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 10:21	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 10:21	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 10:21	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 10:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 10:21	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 10:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 10:21	2037-26-5	

Sample: MW-4 Lab ID: 40178116003 Collected: 10/18/18 12:20 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	330	ug/L	14.0	4.2	5		10/23/18 09:59	95-63-6	
1,3,5-Trimethylbenzene	99.0	ug/L	14.6	4.4	5		10/23/18 09:59	108-67-8	
Benzene	41.6	ug/L	5.0	1.2	5		10/23/18 09:59	71-43-2	
Ethylbenzene	514	ug/L	5.0	1.1	5		10/23/18 09:59	100-41-4	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		10/23/18 09:59	1634-04-4	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Sample: MW-4 **Lab ID: 40178116003** Collected: 10/18/18 12:20 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Naphthalene	65.1	ug/L	25.0	5.9	5		10/23/18 09:59	91-20-3	
Toluene	5.9J	ug/L	25.0	0.86	5		10/23/18 09:59	108-88-3	
m&p-Xylene	409	ug/L	10.0	2.3	5		10/23/18 09:59	179601-23-1	
o-Xylene	21.3	ug/L	5.0	1.3	5		10/23/18 09:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		5		10/23/18 09:59	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		5		10/23/18 09:59	1868-53-7	
Toluene-d8 (S)	101	%	70-130		5		10/23/18 09:59	2037-26-5	

Sample: MW-5 **Lab ID: 40178116004** Collected: 10/18/18 11:20 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 10:44	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 10:44	108-67-8	
Benzene	139	ug/L	1.0	0.25	1		10/23/18 10:44	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 10:44	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 10:44	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 10:44	91-20-3	
Toluene	1.1J	ug/L	5.0	0.17	1		10/23/18 10:44	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 10:44	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 10:44	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 10:44	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/23/18 10:44	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 10:44	2037-26-5	

Sample: MW-6 **Lab ID: 40178116005** Collected: 10/18/18 10:37 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 16:12	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 16:12	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 16:12	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 16:12	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 16:12	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 16:12	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 16:12	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 16:12	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 16:12	95-47-6	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Sample: MW-6 **Lab ID: 40178116005** Collected: 10/18/18 10:37 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/23/18 16:12	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		10/23/18 16:12	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/23/18 16:12	2037-26-5	

Sample: MWB-7 **Lab ID: 40178116006** Collected: 10/18/18 11:55 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 16:35	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 16:35	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 16:35	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 16:35	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 16:35	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 16:35	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 16:35	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 16:35	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 16:35	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/23/18 16:35	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		10/23/18 16:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/23/18 16:35	2037-26-5	

Sample: MW-8 **Lab ID: 40178116007** Collected: 10/18/18 12:50 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 16:58	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 16:58	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 16:58	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 16:58	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 16:58	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 16:58	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 16:58	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 16:58	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 16:58	95-47-6	
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 16:58	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/18 16:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 16:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Sample: PZ-1 **Lab ID: 40178116008** Collected: 10/18/18 12:05 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 17:20	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 17:20	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 17:20	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 17:20	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 17:20	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 17:20	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 17:20	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 17:20	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 17:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 17:20	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		10/23/18 17:20	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 17:20	2037-26-5	

Sample: PZ-2 **Lab ID: 40178116009** Collected: 10/18/18 11:07 Received: 10/20/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		10/23/18 17:43	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		10/23/18 17:43	108-67-8	
Benzene	<0.25	ug/L	1.0	0.25	1		10/23/18 17:43	71-43-2	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		10/23/18 17:43	100-41-4	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		10/23/18 17:43	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		10/23/18 17:43	91-20-3	
Toluene	<0.17	ug/L	5.0	0.17	1		10/23/18 17:43	108-88-3	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		10/23/18 17:43	179601-23-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		10/23/18 17:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 17:43	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/18 17:43	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		10/23/18 17:43	2037-26-5	

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QUALITY CONTROL DATA

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

QC Batch: 303877 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40178116001, 40178116002, 40178116003, 40178116004, 40178116005, 40178116006, 40178116007, 40178116008, 40178116009

METHOD BLANK: 1775642 Matrix: Water
 Associated Lab Samples: 40178116001, 40178116002, 40178116003, 40178116004, 40178116005, 40178116006, 40178116007, 40178116008, 40178116009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/23/18 06:58	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/23/18 06:58	
Benzene	ug/L	<0.25	1.0	10/23/18 06:58	
Ethylbenzene	ug/L	<0.22	1.0	10/23/18 06:58	
m&p-Xylene	ug/L	<0.47	2.0	10/23/18 06:58	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/23/18 06:58	
Naphthalene	ug/L	<1.2	5.0	10/23/18 06:58	
o-Xylene	ug/L	<0.26	1.0	10/23/18 06:58	
Toluene	ug/L	<0.17	5.0	10/23/18 06:58	
4-Bromofluorobenzene (S)	%	96	70-130	10/23/18 06:58	
Dibromofluoromethane (S)	%	100	70-130	10/23/18 06:58	
Toluene-d8 (S)	%	98	70-130	10/23/18 06:58	

LABORATORY CONTROL SAMPLE: 1775643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.5	103	69-137	
Ethylbenzene	ug/L	50	53.3	107	86-127	
m&p-Xylene	ug/L	100	106	106	70-131	
Methyl-tert-butyl ether	ug/L	50	42.0	84	65-136	
o-Xylene	ug/L	50	52.7	105	70-130	
Toluene	ug/L	50	52.6	105	84-124	
4-Bromofluorobenzene (S)	%			93	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776246 1776247

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40178088001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Benzene	ug/L	<0.25	50	50	51.4	53.1	103	106	66-143	3	20	
Ethylbenzene	ug/L	<0.22	50	50	53.1	54.5	106	109	81-136	3	20	
m&p-Xylene	ug/L	<0.47	100	100	104	107	104	107	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	42.3	46.0	85	92	58-142	8	23	
o-Xylene	ug/L	<0.26	50	50	52.3	52.3	105	105	70-132	0	20	
Toluene	ug/L	<0.17	50	50	52.9	51.8	106	104	81-130	2	20	
4-Bromofluorobenzene (S)	%						94	97	70-130			

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

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QUALITY CONTROL DATA

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1776246												1776247	
Parameter	Units	40178088001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Dibromofluoromethane (S)	%							97	103	70-130			
Toluene-d8 (S)	%							99	98	70-130			

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

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QUALIFIERS

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5403 PIONEER BANK

Pace Project No.: 40178116

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178116001	MW-2	EPA 8260	303877		
40178116002	MW-3	EPA 8260	303877		
40178116003	MW-4	EPA 8260	303877		
40178116004	MW-5	EPA 8260	303877		
40178116005	MW-6	EPA 8260	303877		
40178116006	MWB-7	EPA 8260	303877		
40178116007	MW-8	EPA 8260	303877		
40178116008	PZ-1	EPA 8260	303877		
40178116009	PZ-2	EPA 8260	303877		

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(Please Print Clearly)

UPPER MIDWEST REGION

Company Name: REI
 Branch/Location: Wausau
 Project Contact: Brian Bailey
 Phone: 715-675-9784
 Project Number: 5403
 Project Name: Pioneer Bank
 Project State: WI
 Sampled By (Print): Ryan Resch
 Sampled By (Sign): *[Signature]*
 PO #: _____ Regulatory Program: _____



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

SSM

CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested	Matrix Codes																	
			A	B	C	D	E	F	G	H	I	J								
N	B	PVOC RN																		

Quote #: _____
 Mail To Contact: Brian Bailey
 Mail To Company: REI
 Mail To Address: B.Bailey@reidegreeing.com
 Invoice To Contact: SAA
 Invoice To Company: I
 Invoice To Address: I
 Invoice To Phone: _____
 CLIENT COMMENTS: _____ LAB COMMENTS (Lab Use Only): _____ Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-2	10/19/18	11:45	GW
002	MW-3		11:33	
003	MW-4		12:20	
004	MW-5		11:20	
005	MW-6		10:37	
006	MWB-7		11:55	
007	MW-8		12:50	
008	PZ-1		12:05	
009	PZ-2		11:07	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <i>[Signature]</i> Date/Time: 10/19/18 1:00 pm	Received By: <i>[Signature]</i> Date/Time: 10/21/18 08:30	PACE Project No. 40178116 40178066 Receipt Temp = 20.1 °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By: Waitaw Date/Time: 10/20/18 08:30	Received By: <i>[Signature]</i> Date/Time: 10/21/18 08:30	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

Sample Preservation Receipt Form

Client Name: RFI

Project # 40178116

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	BP3C	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																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	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	BP3C	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:	

Sample Condition Upon Receipt Form (SCUR)

Project # **WO#: 40178116**

Client Name: REI

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



Tracking #: 1870235-1

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

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

Cooler Temperature Uncorr: _____ ICorr: ROI

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

Person examining contents:

Date: 10/20/18

Initials: RL

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

Chain of Custody Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out: <u>10/20/18 RL</u>	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no pg #</u> <u>10/20/18 RL</u>
Chain of Custody Relinquished:	<input 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. <u>005 client wrote in pencil</u> <u>10/20/18 RL</u>
-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: [Signature]

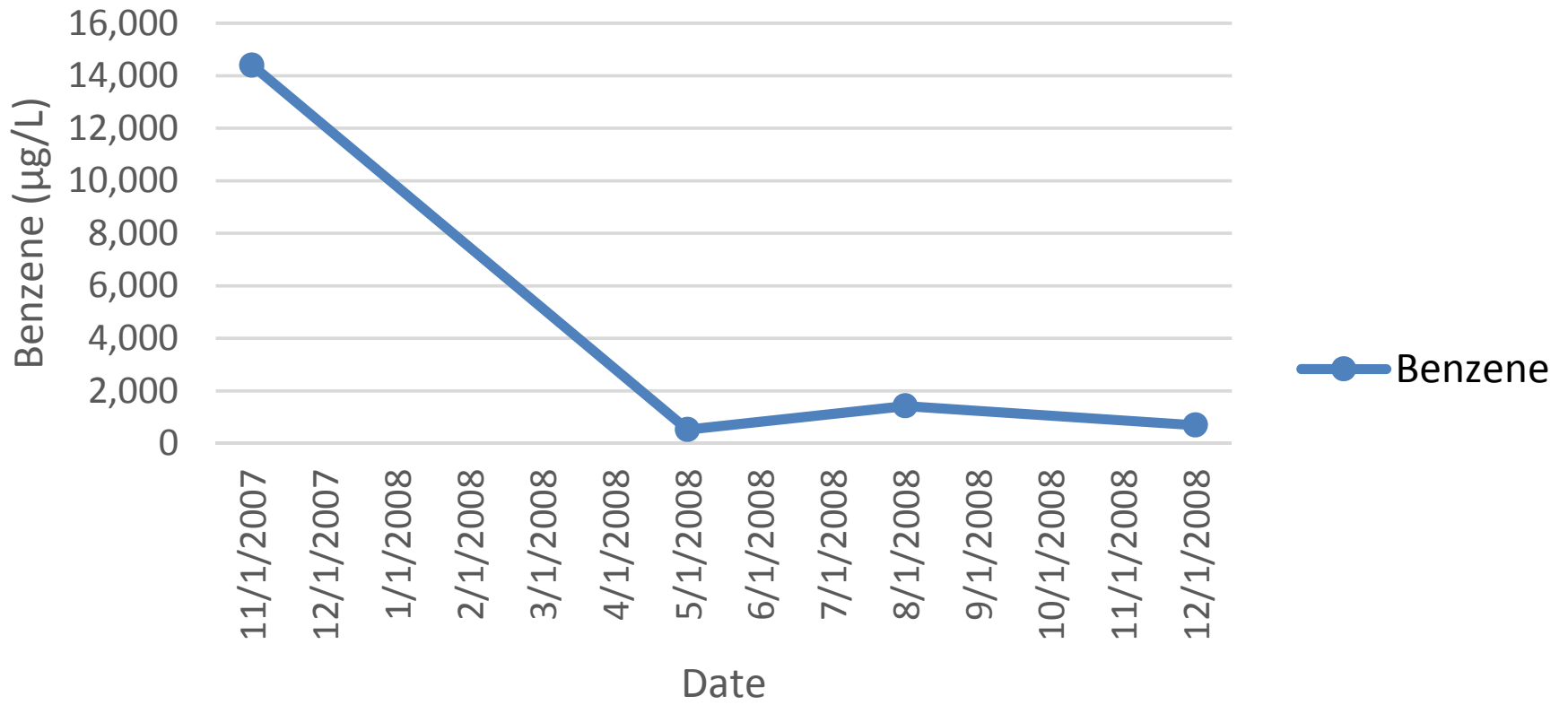
Date: 10-22-18

APPENDIX B

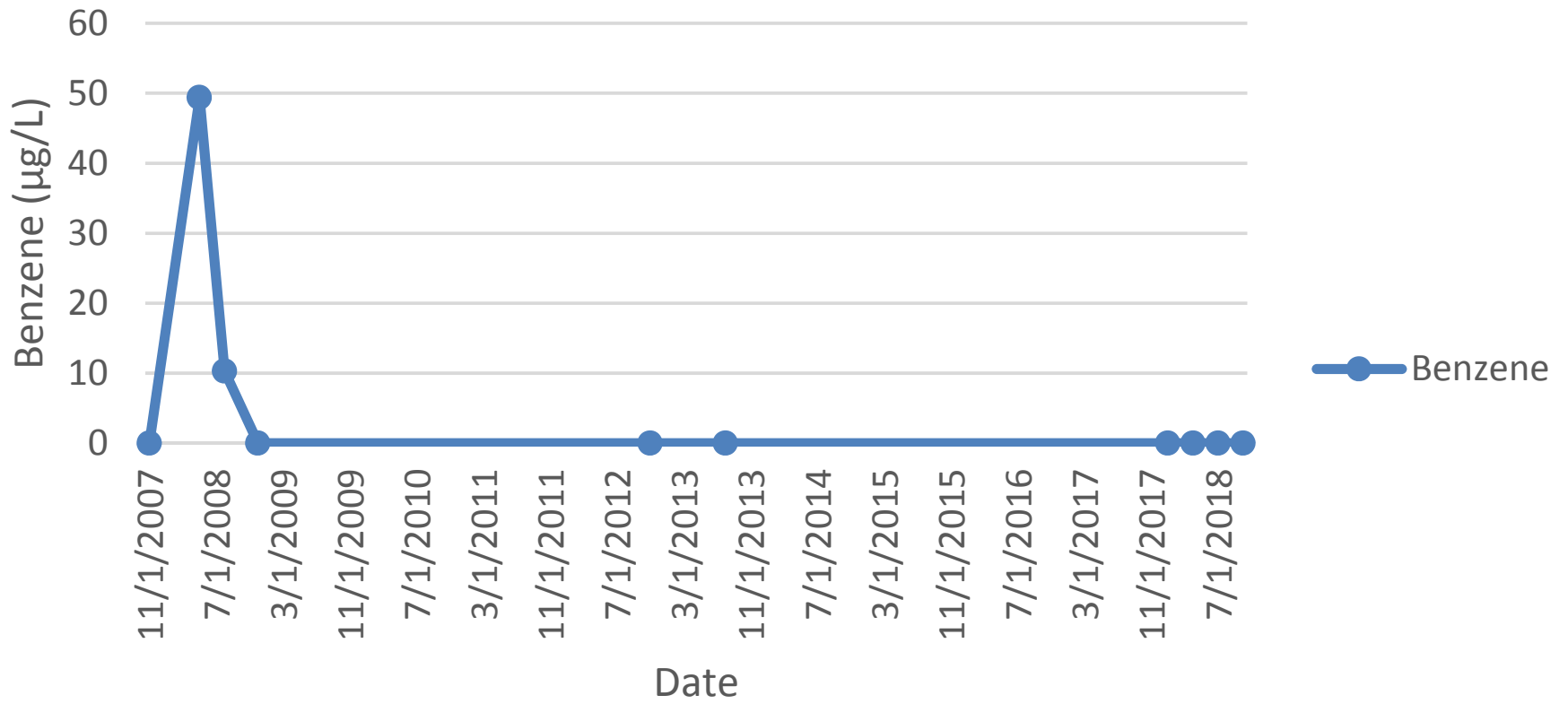
TIME VERSUS CONCENTRATION PLOTS



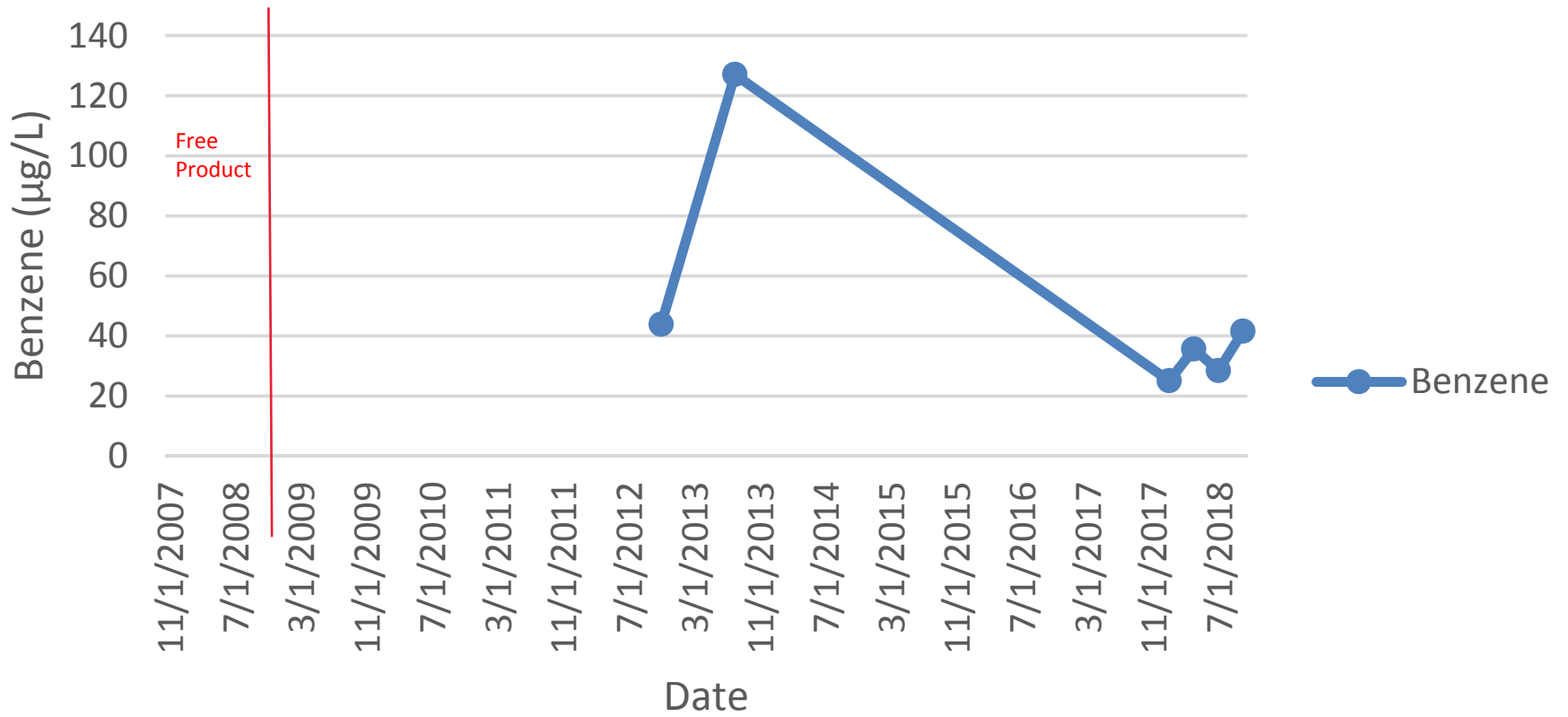
MW1 - Time v. Concentration Benzene



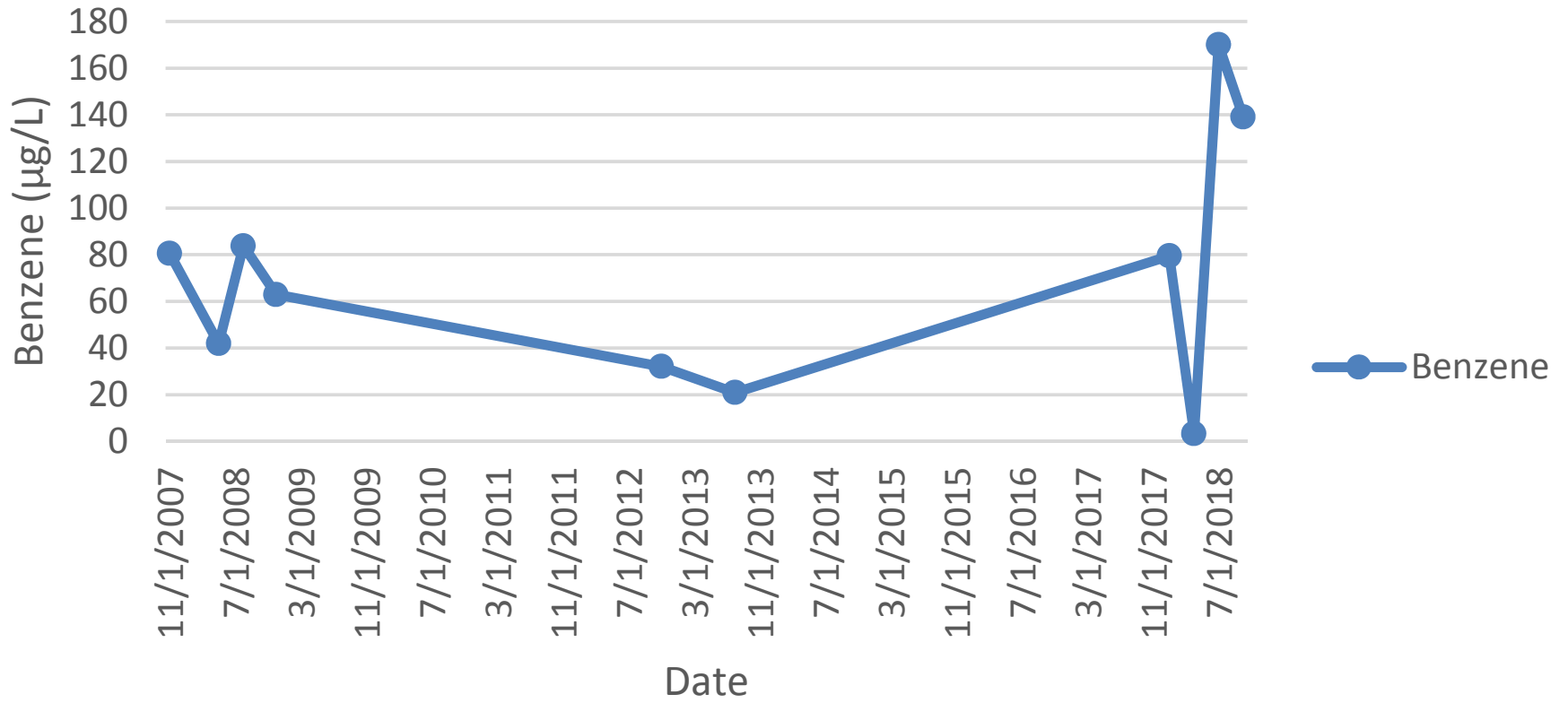
MW2 - Time v. Concentration Benzene



MW4 - Time v. Concentration Benzene



MW5 - Time v. Concentration Benzene



APPENDIX C

MONITORING WELL MW-10 ABANDONMENT FORM



Notice: Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

Route to: Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other

(1) GENERAL INFORMATION		(2) FACILITY/OWNER INFORMATION	
WI Unique Well No.	DNR Well ID No.	County	Facility Name
		WOOD	Power Bank
Common Well Name <u>MW 10</u>		Gov't Lot (If applicable)	Facility ID
			License/Permit/Monitoring No. <u>BRRS 2 02-07-522339</u>
Grid Location 1/4 of 1/4 of Sec. ; T. N; R. <input type="checkbox"/> E <input type="checkbox"/> W		Street Address of Well <u>735 S Central Ave</u>	
ft. <input type="checkbox"/> N. <input type="checkbox"/> S., ft. <input type="checkbox"/> E. <input type="checkbox"/> W.		City, Village, or Town <u>Marshfield WI</u>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>		Present Well Owner <u>Summit Dental</u>	
Lat. " Long. " or		Original Owner <u>Power Bank</u>	
St. Plane ft. N. ft. E. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Zone		Street Address or Route of Owner <u>4607 Royal Drive</u>	
Reason For Abandonment <u>Site redevelopment</u>		City, State, Zip Code <u>Gen. Closure WI 54701</u>	
WI Unique Well No. of Replacement Well			

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION		(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL	
Original Construction Date <u>10-17-2012</u>	If a Well Construction Report is available, please attach.	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
<input checked="" type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Borehole / Drillhole		Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Applicable	
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify)		Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) <u>19.50'</u> Casing Diameter (in.) <u>2"</u>		Required Method of Placing Sealing Material	
(From ground surface) Casing Depth (ft.)		<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Lower Drillhole Diameter (in.)		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain)	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Sealing Materials	
If Yes, To What Depth? Feet		For monitoring wells and monitoring well boreholes only	
Depth to Water (Feet) <u>12.00'</u>		<input type="checkbox"/> Neat Cement Grout <input checked="" type="checkbox"/> Bentonite Chips	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite	
		<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Bentonite - Sand Slurry	
		<input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Bentonite - Sand Slurry	
		<input type="checkbox"/> Bentonite Chips	

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
<u>3/8" Hole Plug</u>	Surface	<u>19.50'</u>	<u>.39 ft³</u>	

(6) Comments:

(7) Name of Person or Firm Doing Sealing Work <u>MARK SCHMITZ</u>		Date of Abandonment <u>6-2-18</u>
Signature of Person Doing Work <u>Mark Schmitz</u>	Date Signed <u>8-8-18</u>	
Street or Route <u>N7349 548 ST</u>	Telephone Number <u>(715) 550 2604</u>	
City, State, Zip Code <u>MENOMONIE WI 54751</u>		

FOR DNR OR COUNTY USE ONLY	
Date Received	Noted By
Comments	