



March 1, 2018

Wisconsin Department of Natural Resources

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



Subject:

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

Dear Ms. Stoltz:

Enclosed is the Update Report for the above-mentioned site. REI has completed two (2) Geoprobe sample events, well installation and two rounds of groundwater sampling. REI is recommending the use of injectates to remediate the observed groundwater contamination and a small soil excavation to remove direct contact soil impacts.

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

Sincerely,
REI Engineering, Inc.

A handwritten signature in black ink, appearing to read "David N. Larsen".

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

Enclosure

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



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4080 N. 20th Avenue Wausau, WI 54401
715-675-9784 REIengineering.com

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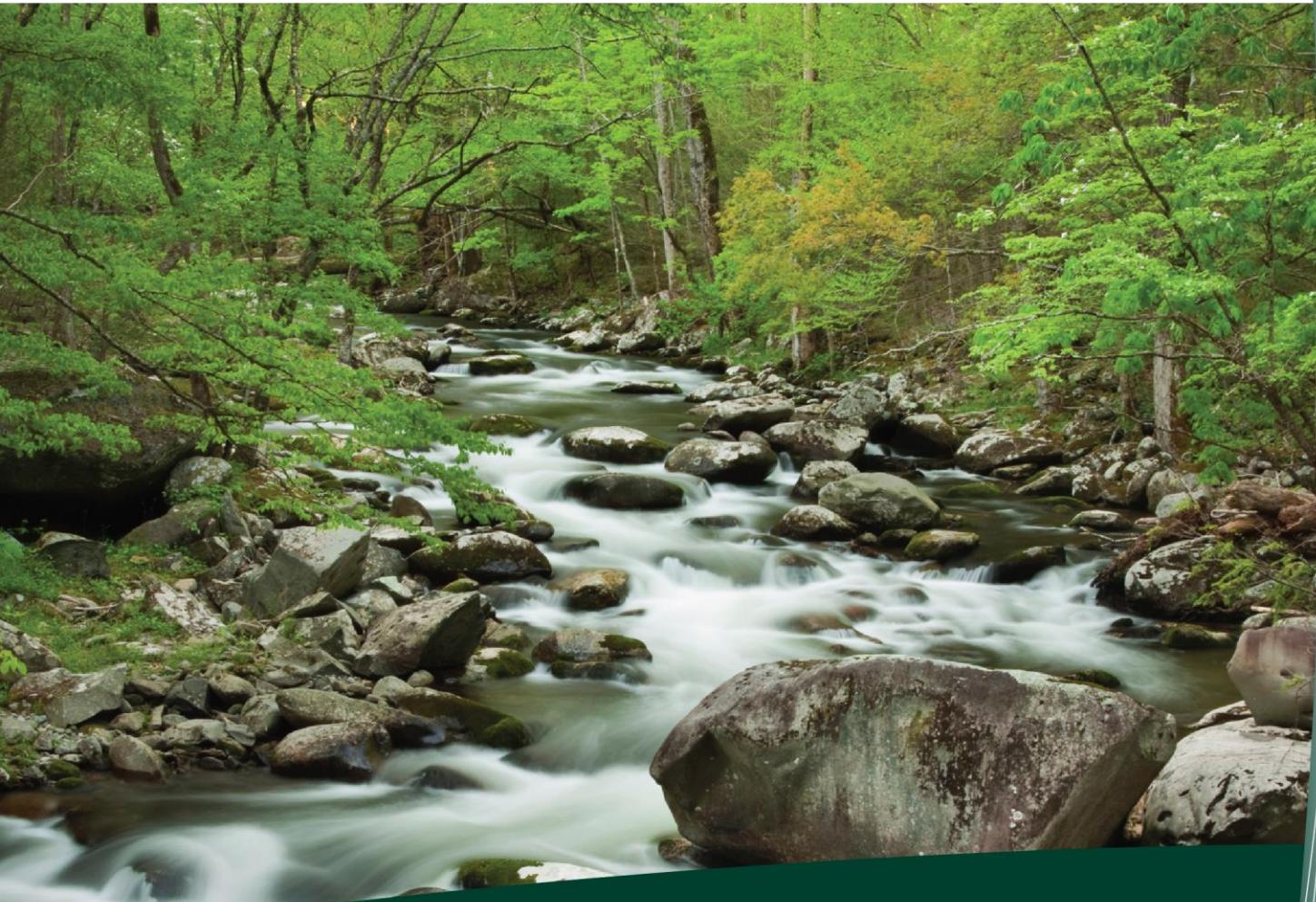
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

UPDATE REPORT

MOOSE JUNCTION LOUNGE DAIRYLAND, WISCONSIN

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

REI PROJECT #6510



**COMPREHENSIVE
SERVICES WITH
PRACTICAL
SOLUTIONS**



UPDATE REPORT

**MOOSE JUNCTION LOUNGE
13195 S STATE RD 35
DAIRYLAND, WI 54830
BRRTS #03-16-000301**

**PECFA #54830-9999-97
REI #6510**

PREPARED FOR:

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

MARCH 2018

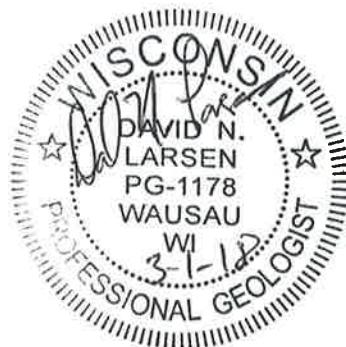
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13195 S STATE RD 35
DAIRYLAND, WI 54830
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The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

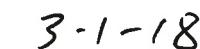
"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information 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."



"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 of 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



Date

UPDATE REPORT

**MOOSE JUNCTION LOUNGE
13195 S STATE RD 35
DAIRYLAND, WI 54830
BRRTS #03-16-000301**

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"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of 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."

"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 of 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

Date

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13195 S STATE RD 35
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1.0 INTRODUCTION

The Moose Junction Lounge site is located in the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 18, Township 44 North, Range 14 West, in the Town of Dairyland, Douglas County, Wisconsin (Figure 1). The property is located in a rural area and many of the adjacent properties are acres in size. Figure 2 presents the neighboring property boundaries as depicted on the Douglas County GIS database. The site address is 13195 S State Road 35, Wisconsin 54830. Wisconsin Transverse Mercator (WTM) coordinates are 353997, 648291.

2.0 SUMMARY OF ACTIVITIES

2.1 Geoprobe Soil and Groundwater Sampling Results

REI personnel were on site on June 12-13, 2017 to advance the proposed Geoprobe borings. Gestra Engineering, Inc., Milwaukee, WI was subcontracted to complete the Geoprobe borings.

REI had proposed ten (10) borings to be advanced on the subject property, in Moose Road and the State Highway 35 right of way. A previous consultant had injected ORC compounds in Moose Road, but no post injection soil samples were collected. REI had received permission from the Town of Dairyland to advance the borings through the gravel covering Moose Road. REI had requested a utility locate and arrived on site the day after the utility markings were placed. Unfortunately, prior to REI arrival, the Town grader operator had graded Moose Road and covered all the utility markings. As such, REI could not advance any borings in Moose Road.

REI did advance a total of nine (9) borings (GP5-GP13) on the subject property and in the State Highway 35 right of way. Boring locations are presented on Figure 2.

Each boring was advanced to a maximum depth of twelve (12) feet below land surface. Soil Boring Logs and Borehole Abandonment Forms are included in Appendix A. Methods and procedures are presented in Appendix B. All soil cuttings from the Geoprobe borings were containerized in a WDOT approved 55-gallon drums and transported to the Lincoln County Landfill biopile located in Merrill, Wisconsin for final disposal. Disposal documentation is included in Appendix C. Continuous soil sampling was conducted during the advancement of the soil borings. Analytical results are presented on Table 1e. Analytical results were directly compared against the State of Wisconsin's cleanup criteria listed in Chapter NR720. Numerous soil sample locations document the presence of petroleum compounds exceeding the NR720.09 (04) Residual Contaminant Level (RCL).

REI personnel returned on November 28, 2017 to advance Geoprobe borings in Moose Road. Geiss Soils & Samples, LLC, Merrill, WI was subcontracted to advance the Geoprobe borings. WDNR project managers, Ms. Carrie Stoltz and John T. Hunt, were onsite to observe the borings in Moose Road. A total of nine (9) Geoprobe borings were advanced.

A single groundwater sample was also collected from select borings and analyzed for PVOC and naphthalene compounds. The results of the groundwater samples document exceedances of the NR 140.10 Groundwater Quality Enforcement Standards (ES) or Preventive Action Limit (PAL) at GP12, GP14, GP17, GP18, GP19, GP21 and GP22. The soil and groundwater analytical results from the Geoprobe sampling event are included in Appendix E.

2.2 Monitoring Well Installation

REI personnel were on site on June 13, 2017 to install the proposed monitoring well (MW9). Gestra Engineering, Inc., Milwaukee, Merrill, WI was subcontracted to complete the monitoring well installation.

MW9 was completed as a flushmount well in the Douglas County right-of-way of County Highway M. Soil Boring Log (WDNR Form 4400-122), Monitoring Well Construction Form (WDNR Form 4400-133A) and Monitoring Well Development Form (WDNR Form 4400-133B) are included in Appendix D. Methods and procedures are presented in Appendix B. Waste disposal documentation is included in Appendix C. Figure 2 presents the updated locations of the monitoring well network for the site.

2.3 Monitoring Well Sampling Results

REI personnel were on site to sample the wells on July 7, 2017 and again on November 27, 2017. Depth to water was measured on all wells and is presented in Table 2. An excess of four (4) well volumes was removed from each well prior to sampling by REI personnel. All purge water was containerized and transported to the City of Wausau waste water treatment facility for final treatment and disposal.

Groundwater samples were collected and submitted to a State certified laboratory for chemical analysis. Copies of the analytical chemistry reports are presented in Appendix E. The results of the two (2) additional groundwater sampling events, summarized in Tables 3a-t, reveal petroleum detects in excess of the NR 140.10 Groundwater Quality Enforcement Standards (ES) or Preventive Action Limit (PAL).

3.0 CONCLUSION

REI is recommending the use of carbon based injectates for remediation of the dissolved phase petroleum groundwater contaminant plume. REI recommends the injection points be focused near borings GP10, GP12, GP14 and GP21. REI also recommends the proper abandonment and eventual replacement of the potable water supply well servicing the 2794 E Moose Road property (Francine Smolka).

Shallow soil contamination, exceeding direct contact RCL's, was identified at location GP8. This soil should be removed through excavation prior to closure consideration. REI is also recommending continued groundwater sampling through closure.

Table 1a
Summary of Soil Analytical Results
DOT Contractor Samples (Aqua-Tech)
Moose Junction Lounge
Dairyland, Wisconsin

		Sample Location-->	MJS-1	MJS-2	MJS-3	Stockpile (B1)
		Date-->	10/18/90	10/18/90	10/18/90	10/18/90
		Sample Depth--(Feet)>	10-12	9-11	9-11	
		Percent Solids-->	84.00%	87.00%	92.00%	
Parameters	NTEDC	GW	Units			
Lead	400	13.50	mg/kg	NA	NA	3.1
TPH as Diesel	NS	NS	mg/kg	< 10	< 10	< 10
TPH as Gasoline	NS	NS	mg/kg	466	1.6	< 1.0
Petroleum VOC's						
Benzene	1,490	2.6	ug/kg	NA	NA	< 93
Ethylbenzene	7,470	785	ug/kg	NA	NA	< 93
Toluene	818,000	553.6	ug/kg	NA	NA	1,500
Xylenes (Total)	258,000	1,970	ug/kg	NA	NA	< 93
Methyl tert Butyl Ether	59,400	13.5	ug/kg	NA	NA	NA
1,2,4-Trimethylbenzene	89,800	689.7	ug/kg	NA	NA	NA
1,3,5-Trimethylbenzene	182,000	689.7	ug/kg	NA	NA	NA
Number of Individual Exceedances (DC)-->						
Cumulative Hazard Index (DC)-->						
Cumulative Cancer Risk (DC)-->						
				0	0.0012	7.50E-08

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCI)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence

NTEDC RCL exceedance
Bold
Bold

NS - No Standard

NA - Not Analyzed

* = Estimated Value between detection limit and quantification limit

Table 1b
Summary of Soil Analytical Results
DOT Contractor Samples (RMT)
Moose Junction Lounge
Dairyland, Wisconsin

Sample Location-->			B-1	B-2	B-2A	B-3
Date-->			10/5/92	10/5/92	10/5/92	10/5/92
Sample Depth--(Feet)-->			1-3	3.5-5.5	4-6	6-8
Parameters	NTEDC	GW Units				
Lead	400	13.50	mg/kg	< 1.0	1.5	< 1.0
CRO			mg/kg	< 2.0	< 2.0	410
Petroleum VOC's						
Benzene	1,490	2.6	ug/kg	ND	33	5,200
Ethylbenzene	7,470	785	ug/kg	ND	ND	540,000
Toluene	818,000	553.6	ug/kg	ND	32	1,600,000
Xylenes (Total)	258,000	1,970	ug/kg	ND	38,000	2,150,000
Methyl tert Butyl Ether	59,400	13.5	ug/kg	ND	ND	1,220,000
1,2,4-Trimethylbenzene	89,800	689.7	ug/kg	ND	35,000	ND
1,3,5-Trimethylbenzene	182,000	689.7	ug/kg	ND	12,000	ND
Number of Individual Exceedances (DC) -->						
Cumulative Hazard Index (DC) -->			0	2	6	5
Cumulative Cancer Risk (DC) -->			0.0003	0.501	15.7668	11.68
			2.2E-08	0.0000046	4.10E-04	1.30E-04

Table 1c
Summary of Soil Analytical Results
Soil Excavation
Moose Junction Lounge
Dairyland, Wisconsin

		Sample-->	SB-7	SB-8	SB-9	SB-10	SB-11	SB-12	SB-13
		Date-->	05/17/93	05/17/93	05/18/93	05/18/93	05/18/93	05/18/93	05/19/93
		Sample Depth--(Feet)>	8-10	6-8	4-6	8-10	6-8	4-6	2-4
		Percent Solids-->	89.6%	83.2%	88.3%	86.6%	86.6%	89.4%	85.8%
Parameters	NTEDC	GW	Units						85.6%
Lead	400	13.50	mg/kg	12.80	8.64	10.30	9.48	12.90	11.10
GRO		ug/kg	<10,000	<10,000	<10,000	<10,000	<10,000	308,000	<10,000
VOC Parameters									
Benzene	1,490	2.6	ug/kg	<200	<200	<200	<200	217	<200
Ethylbenzene	7,470	785	ug/kg	<200	<200	<200	<200	2,510	<200
Methyl t-Butyl Ether	59,400	13.5	ug/kg	<200	<200	<200	<200	<200	<200
Toluene	818,000	553.6	ug/kg	<200	<200	<200	<200	1,190	<200
1,2,4-Trimethylbenzene	89,800	689.7	ug/kg	<200	<200	<200	<200	3,950	<200
1,3,5-Trimethylbenzene	182,000	689.7	ug/kg	<200	<200	<200	<200	9,730	<200
Xylenes (Total)	258,000	1,970	ug/kg	<200	<200	<200	<200	8,250	<200
Number of Individual Exceedances (DC)-->		0	0	0	0	0	0	0	0
Cumulative Hazard Index (DC)-->		0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046	0.0046
Cumulative Cancer Risk (DC)-->		0.00000016	0.00000016	0.00000016	0.00000016	0.00000016	0.00000016	0.00000016	0.00000016
		Sample-->	MW1	MW2	MW3	MW4	MW5	MW6	MW7
		Date-->	05/18/93	05/19/93	05/19/93	05/18/93	05/18/93	08/26/93	08/26/93
		Sample Depth--(Feet)>	4-6	4-6	12-13	14-16	8-10	14-16	4
		Percent Solids-->	85.1%	82.1%	83.1%	91.4%	82.5%	84.8%	83.3%
Parameters	NTEDC	GW	Units						76.2%
Lead	400	13.50	mg/kg	9.99	3.4	5.7	6.31	5.95	5.9
GRO		ug/kg	639,000	4,220,000	51,500	<10,000	<10,000	<10,000	<5,000
VOC Parameters									
Benzene	1,490	2.6	ug/kg	10,100	23,600	5,900	<200	570	<200
Ethylbenzene	7,470	785	ug/kg	8,770	30,700	846	<200	<200	<200
Methyl t-Butyl Ether	59,400	13.5	ug/kg	5,670	13,900	<200	<200	<200	<200
Toluene	818,000	553.6	ug/kg	12,700	164,000	5,810	<200	384	<200
1,2,4-Trimethylbenzene	89,800	689.7	ug/kg	9,570	112,000	472	<200	<200	<200
1,3,5-Trimethylbenzene	182,000	689.7	ug/kg	24	192,000	1,390	<200	247	<200
Xylenes (Total)	258,000	1,970	ug/kg	39,700	358,000	3,780	<200	640	<200
Number of Individual Exceedances (DC)-->		2	5	1	0	0	0	0	0
Cumulative Hazard Index (DC)-->		0.2473	2.6024	0.00658	0.0046	0.008	0.0046	0.0046	0.0046
Cumulative Cancer Risk (DC)-->		8.00E-06	5.40E-05	4.10E-06	0.00000016	4.10E-07	0.00000016	0.00000016	0.00000016

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

Bold

Bold

NS - No Standard

* = Estimated Value between detection limit and quantification limit

Table 1d
Summary of Soil Analytical Results
Soil Excavation
Moose Junction Lounge
Dairyland, Wisconsin

	Sample-->	9308-B1	9308-B2	9308-B3	9308-B4	9308-B5	9308-B6	9308-B7	9308-B8
	Date-->	06/15/93	06/15/93	06/15/93	06/15/93	06/15/93	06/15/93	06/15/93	06/15/93
	Sample Depth--(Feet)-->	12	4	7	9	8	9	6	7
	Percent Solids-->	82.0%	88.3%	88.6%	89.5%	89.2%	90.2%	87.5%	88.0%
Parameters	NTEDC	CW	Units						
Lead	400	13.50	mg/kg	7.03	9.53	7.62	9.73	7.65	9.55
GR0			ug/kg	< 10,000	769,000	< 10,000	61,600	577,000	640,000
VOC Parameters									
Benzene	1,490	2.6	ug/kg	< 200	6,610	< 200	644	1,570	11,600
Ethylbenzene	7,470	785	ug/kg	< 200	7,980	< 200	1,250	5,700	6,720
Methyl t-Butyl Ether	59,400	13.5	ug/kg	NA	NA	NA	NA	NA	NA
Toluene	818,000	553.6	ug/kg	< 200	12,400	< 200	2,250	5,720	19,800
1,2,4-Trimethylbenzene	89,800	689.7	ug/kg	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	182,000	689.7	ug/kg	NA	NA	NA	NA	NA	NA
Xylenes (Total)	258,000	1,970	ug/kg	< 200	9,560	< 200	5,820	24,900	30,000
Number of Individual Exceedances (DC)-->	0	2		0	0	1	1	4	0
Cumulative Hazard Index (DC)-->	0.0021	0.0747		0.0021	0.0132	0.0449	0.144	89.1583	0.0133
Cumulative Cancer Risk (DC)-->	0.00000016	5.50E-06		0.00000016	6.00E-07	1.80E-06	8.70E-06	5.40E-03	9.60E-07

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

CW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

CW - RCL exceedence **Bold**

NTEDC RCL exceedence **Bold**

NS - No Standard

* = Estimated Value between detection limit and quantification limit

Table 1e
Summary of Soil Analytical Results
Soil Samples
Moose Junction Lounge
Dairyland, Wisconsin

Sample-->	GP10	GP11	GP12	GP13	GP14	GP15	GP16	GP17	GP18	GP19	GP20	GP21	GP22
Date-->	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017	6/13/2017
Sample Depth-(Feet)-->	1.5	12-18 inch	1.5	9-10	1.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
Percent Solids-->	89.20%	90.70%	87.90%	90.40%	91.50%	91.70%	84.80%	86.70%	86.30%	86.40%	91.60%	89.90%	89.30%
Lead (mg/kg)	400	NR 140	4.80	3.20	9.60	3.40	16.60	NA	NA	NA	NA	NA	NA
Petroleum VOC's (µg/kg)	Non-Industrial Groundwater Pathway Protection (DF=2)	DC RCL											
Benzene	1.490	5.1	ug/kg	< 30.5	< 32.9	46.5*	< 36.2	10,600	< 25.0	< 25.0	< 25.0	< 25.0	2,460
Ethylbenzene	7.470	1,570	ug/kg	< 30.5	< 39.1	53.8*	142	< 36.2	86,700	< 25.0	< 25.0	< 25.0	70,700
Methyl-Butyl Ether	59,400	277	ug/kg	< 30.5	< 39.1	< 32.9	< 32.1	1,660*	< 25.0	< 25.0	< 25.0	< 25.0	2,340
Toluene	818,000	1,107	ug/kg	< 30.5	< 39.1	< 32.9	< 32.1	145,000	< 25.0	110	37.0*	51.3*	100,000
2,2,4,Trimethylbenzene	89,800	1.300	ug/kg	< 30.5	< 39.1	58.8*	< 32.1	314,000	< 25.0	< 25.0	< 25.0	< 25.0	150,000
3,3,5-Trimethylbenzene	182,000	1.379	ug/kg	< 30.5	< 39.1	< 32.9	< 32.1	111,000	< 25.0	< 25.0	< 25.0	< 25.0	37.9*
1-Tymethylbenzenes (Total)	258,000	3,940	ug/kg	< 30.5	< 39.1	58.8*	< 32.1	425,000	< 25.0	< 25.0	< 25.0	< 25.0	199,800
Kylenes (Total)	258,000	3,940	ug/kg	< 30.5	< 39.1	< 32.9	< 32.1	591,000	< 25.0	61.6*	< 25.0	< 25.0	363,300
Naphthalene	5,150	6,884.7	ug/kg	< 30.5	< 39.1	< 32.9	11.8	< 36.2	591,000	< 25.0	< 25.0	< 25.0	23,700

Notes

Notes: NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCI)

NEDC - Net 10 Exceed Direct Contact Residual Quality

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence **Bold**

NTEDC RCL exceedance *Italics*

NS - No Standard

* = Estimated Value between detection

Table 2
Moose Junction Lounge
Dairyland, WI
Depth to Water and Water Level Elevations

Depth to Water (feet) below Reference Elevation	Date	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	ROW Potable
5/27/1993	3.72	5.67	2.84	2.75	2.72						
8/26/1993	5.07	7.01	3.86	4.12	3.16	3.31					
11/18/1993	4.46	6.61	3.16	3.31	3.16	3.31					
3/1/1994	4.86	7.76	3.50	3.75	3.22	3.16					
7/22/1994	4.32	4.82	3.22	3.22	3.23	3.23					
10/27/1994	4.74	6.16	3.38	4.10	4.50	4.50					
4/18/2007	4.20	4.50	4.50	4.50	4.52	4.52					
8/15/2007	7.93	8.31	9.52	6.70	6.75	6.70					
10/3/2007	4.64	5.75	3.82	3.51	4.52	4.52					
7/13/2010	5.51	6.08	4.06	4.81	4.04	4.34					
11/23/2010	5.57	6.15	3.54	3.97	4.16	4.67					
3/4/2011	6.11	6.63	4.23	4.23	4.23	4.15					
7/22/2011	5.41	5.86	4.69	5.29	5.29	5.29					
10/27/2011	6.47	7.30	5.10	5.17	5.17	5.17					
1/26/2012	7.41	7.99	5.10	5.17	5.17	5.17					
4/27/2012	5.20	5.83	3.33	3.99	4.35	4.35					
10/5/2012	7.82	8.25	5.92	5.82	6.28	6.28					
11/14/2013	5.72	6.19	3.75	4.19	3.75	3.75					
6/28/2016	5.70	6.06	0.82	3.40	3.50	4.43					
10/3/2016	2.58	6.15	1.06	3.75	3.72	4.67	2.93	2.93	5.92	5.92	2.28
7/7/2017	2.41	6.19	0.97	3.88	3.38	4.87	3.18	3.18	5.30	5.30	2.79
11/27/2017	2.39	5.98	0.91	3.16	3.41	4.67	2.78	2.78	0.91	0.91	0.51
Measuring Point Elevations (top of well casing)											
Initial Survey		1233.23	1231.18	1228.93	1226.11	1230.59	96.79				
Terra-Tech Elevation Data (4/18/07)		1235.72	1234.43	1235.96	1229.86		1,226.74				
Carlson Elevation Data (7/13/2010)		101.98	100.56	100.41	96.82		1,230.59				
REI (6/28/16)		1,229.67	1,231.31	1,228.61	1,226.09		1,226.77				
REI (7/7/17)		1,229.74	1,231.34	1,228.63	1,226.19		1,230.64				
Ground Surface Elevation											
Initial Survey		1231.20	1229.20	1226.90	1224.10	1227.01	1223.58	1225.14	1224.05	1,223.76	
REI (6/28/16)		1230.31	1229.35	1228.99	1223.95						
Depth to Water (feet) below Top of Casing											
Average		6.35	6.44	3.85	4.11	4.52	4.79	3.06	5.61	5.61	2.54
Maximum		7.93	8.31	9.52	6.70	6.75	4.90	3.18	5.92	5.92	2.79
Minimum		2.58	4.50	0.82	2.75	4.10	4.67	2.93	5.30	5.30	2.28
Range		5.35	3.81	8.70	3.95	2.65	0.23	0.25	0.62	0.62	0.51
Water Level Elevation (feet MSL)											
Depth to Water (feet) below Reference Elevation	Date	MW1	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	ROW Potable
5/27/1993	1,227.72	1,225.10	1,224.88	1,221.30	1,221.99						
8/26/1993	1,228.16	1,224.17	1,225.07	1,222.80	1,222.80						
11/18/1993	1,228.77	1,224.57	1,225.77	1,225.43	1,225.43						
3/1/1994	1,228.37	1,223.42	1,225.36	1,225.71	1,225.71						
7/22/1994	1,228.91	1,228.49	1,225.02	1,225.85	1,225.88						
10/27/1994	1,228.49	1,231.52	1,228.93	1,231.46	1,226.31	1,226.49					
4/18/2007	1,227.79	1,226.12	1,226.44	1,223.16	1,223.84						
8/15/2007	1,231.08	1,228.68	1,232.14	1,226.35	1,226.07						
10/3/2007	96.47	94.48	96.36	92.01	92.45						
7/13/2010	96.41	94.41	96.87	92.85	92.12						
11/23/2010	95.87	93.93	92.66	92.59	92.64						
3/4/2011	94.10	94.10	94.49	91.00	91.50						
7/22/2011	96.57	92.57	95.31	91.65	91.12						
10/27/2011	96.78	94.73	97.08	92.83	92.44						
11/14/2013	94.16	92.31	94.49	91.00	90.51						
6/28/2016	1,227.09	1,228.61	1,227.79	1,222.69	1,223.24	1,222.69					
10/28/2016	1,227.33	1,225.16	1,227.34	1,225.02	1,225.69	1,222.44					
7/7/2017	1,227.35	1,225.36	1,227.72	1,223.77	1,225.69	1,222.54	1,222.74				
11/27/2017											

Notes:

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

Table 3a
Summary of Groundwater Analytical Results
DOT Contractor Samples (Aqua-Tech)
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

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

Enforcement Standard exceeded

BOLD

Italics

Preventive Action Limit exceeded

Table 3b
Summary of Groundwater Analytical Results
DOT Contractor Samples (RMT)
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3c
Summary of Groundwater Analytical Results
Geoprobe Borings
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

VOC Parameters	Sampled By -->			REI		
	Sample Location -->			GP18	GP19	GP20
	Date -->	11/28/2017	11/28/2017	11/28/2017	11/28/2017	11/28/2017
Benzene	ES	PAL	Units			
Benzene	5	0.5	µg/l	44.5	7.2	< 0.40
Ethylbenzene	700	140	µg/l	0.45*	17.1	< 0.39
Toluene	800	160	µg/l	< 0.39	5.3	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	1.2	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	2.0	63.7	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.9	34.7	< 0.42
Naphthalene	100	10	µg/l	< 0.42	1.4	< 0.42
						692
						74.9

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

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

BOLD	<i>Italics</i>
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Table 3d
Summary of Groundwater Analytical Results
MW1
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Sampled By ->										Earth Burners									
Detected Parameters	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/22/94	10/27/94	2/8/1995	5/19/1995	8/7/1995	12/15/1995	3/11/1996	11/17/2003			
Lead	15	1.5	µg/l	406	< 50	8	2	NA	70	42	NS	NA	NA	NA	NA	< 50			
Lead (Dissolved)	15	1.5	µg/l	NA	NA	NA	NA	< 50	NA	NA	NA	NA	NA	NA	NA	NA			
GRO			mg/l	6,160	3,590	1,430	1,480	140	280	446	NS	201	ND	190	< 100				
VOC Parameters																			
Benzene	6	0.5	µg/l	41	Soil	228	48	212	1.7	120	52	NS	8.41	14	29	7.6			
Ethybenzene	700	140	µg/l	22	Excavation	47	22	25	< 5.0	< 5.0	6	NS	< 5.0	< 5.0	3.3	< 0.14			
Toluene	800	160	µg/l	210	Completed	54	7	14	< 5.0	< 5.0	NS	< 5.0	< 5.0	< 5.0	< 1.0	< 0.58			
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	NA	99	< 5.0	23	1.7	< 5.0	NS	< 5.0	8.0	8.0	1.4	< 0.68			
Xylenes (mixed isomers)	2,000	400	µg/l	820		53	61	154	1.9	11	160	NS	< 5.0	< 5.0	18.1	< 2.6			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	286		114	68	63	< 5.0	7.3	24	NS	< 5.0	< 5.0	12.9	< 1.06			
Naphthalene	100	10	µg/l	< 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Dibromochloromethane	60	6	µg/l	< 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
n-Propylbenzene			µg/l	6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
Isopropylbenzene			µg/l	3		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
n-Butylbenzene			µg/l	6		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
tert-Butylbenzene			µg/l	< 1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

Sampled By ->										Carlson McCain								
Detected Parameters	ES	PAL	Units	4/14/2006	4/18/2006	8/15/2007	10/3/2007	7/13/2010	11/23/2010	3/4/2011	7/22/2011	10/27/2011						
VOC Parameters																		
Benzene	6	0.5	µg/l	< 0.12	NS	< 0.25	< 0.31	ORC	< 0.31	0.14*	< 0.31	< 0.31						
Ethybenzene	700	140	µg/l	< 0.3	NS	< 0.22	< 0.50	Injection	< 0.50	0.14*	< 0.50	< 0.50						
Toluene	800	160	µg/l	< 0.13	NS	< 0.11	0.46	< 0.37	< 0.37	0.13*	< 0.37	< 0.37						
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.11	NS	< 0.23	< 0.30		< 0.30	0.30*	< 0.30	< 0.30						
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.7	NS	< 0.39	< 1.39		< 1.39	0.43*	< 1.39	< 1.39						
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.58	NS	< 0.25	< 0.44		< 0.44	0.14*	< 0.44	< 0.44						
Naphthalene	100	10	µg/l	NA	NS	< 0.50	< 0.50	< 2.00	< 2.00	0.48*	< 2.00	< 2.00						

Notes:

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

ND = Not Detected

NA = Not Analyzed

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

BOLD	<i>Italics</i>
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Table 3e
Summary of Groundwater Analytical Results
MW1
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

		Sampled By -->				REI			
Detected Parameters		ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017
Dissolved Lead		15	1.5	µg/l	NA	NA	NA	NA	4.8*
VOC Parameters									
Benzene	5	0.5	µg/l	< 0.34	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Toluene	800	160	µg/l	< 0.34	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.37	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.71	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.33	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Naphthalene	100	10	µg/l	< 0.37	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42
Natural Attenuation Parameters									
Temperature			°F				60.99	64.89	47.02
Conductivity			uS/cm				1408	167	830
Dissolved Oxygen			mg/l				1.07	2.58	2.42
pH			mV				7.03	6.01	5.92
Oxidation-Reduction Potential							-76.4	30.9	158

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3f
Summary of Groundwater Analytical Results
MW2
Moose Junction Lounge
13155 State Highway 35
Dairyland, WI

Sampled By -->							
Detected Parameters	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93
Lead	15	1.5	µg/l	131		58	770
Lead (Dissolved)	15	1.5	µg/l	NA		NA	
GRO			mg/l	132,000	36,800	140,000	222,000
VOC Parameters							
Benzene	5	0.5	µg/l	19,000	Soil	2,790	10,500
Ethylbenzene	700	140	µg/l	1,600	Excavation	551	2,130
Toluene	800	160	µg/l	29,000	Completed	2,770	10,100
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	< 5.0	55	570
Xylenes (mixed isomers)	2,000	400	µg/l	16,500		2,650	9,090
Trimethylbenzenes (mixed isomers)	480	96	µg/l	860		911	2,670
Naphthalene	100	10	µg/l	< 1.0		NA	NA
Dibromochloromethane	60	6	µg/l	130		NA	NA
n-Propylbenzene			µg/l	1,300		NA	NA
Isopropylbenzene			µg/l	53		NA	NA
n-Butylbenzene			µg/l	53		NA	NA
tert-Butylbenzene			µg/l	270		NA	NA

Sampled By -->							
Detected Parameters	ES	PAL	Units	11/17/2003	4/14/2006	4/18/2007	Tetra-Tech
Lead	15	1.5	µg/l	< 50	< 0.7	NA	NA
Lead (Dissolved)			µg/l	NA	NA	NA	NA
GRO			mg/l	21000	NA	NA	NA
VOC Parameters							
Benzene	5	0.5	µg/l	6,400	4,900	71	8,600
Ethylbenzene	700	140	µg/l	840	720	23	1,600
Toluene	800	160	µg/l	380	770	130	1,700
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 69	< 5.5	< 0.23	< 46
Xylenes (mixed isomers)	2,000	400	µg/l	5,330	3,300	260	14,000
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,630	1,430	112	2,730
Naphthalene	100	10	µg/l	NA	NA	550	20

Sampled By -->							
Detected Parameters	ES	PAL	Units	7/13/2010	11/23/2010	3/4/2011	Carlson McCain
VOC Parameters							
Benzene	5	0.5	µg/l	4,060	ORC	4,100	6,000
Ethylbenzene	700	140	µg/l	866	Injection	622	750
Toluene	800	160	µg/l	1,410		4,860	7,700
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	50.1		68.4*	422*
Xylenes (mixed isomers)	2,000	400	µg/l	7,240		6,990	870
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1,785		2,229	1,680
Naphthalene	100	10	µg/l	NA	443	290	352

Notes:

ES = NRI 140.10 Enforcement Standards

PAL = NRI 140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

Enforcement Standard exceeded

Preventive Action Limit exceeded

BOLD

Italics

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

Table 3g
Summary of Groundwater Analytical Results
MW2
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

		Sampled By -->						REI		
Detected Parameters		ES	PAL	Units	11/14/2013	2/18/2015	6/28/2016	10/3/2016	7/7/2017	11/27/2017
Dissolved Lead		15	1.5	µg/l	NA	NA	NA	NA	NA	13.7*
VOC Parameters										
Benzene		5	0.5	µg/l	3,520	2,680	4,120	2,770	3,240	2,770
Ethylbenzene		700	140	µg/l	1,720	1,100	2,100	1,550	2,050	1,920
Toluene		800	160	µg/l	7,080	1,890	4,700	1,060	4,790	1,830
Methyl tert-Butyl Ether (MTBE)		60	12	µg/l	< 18.6	< 9.7	< 24.2	< 9.7	< 9.7	< 12.1
Xylenes (mixed isomers)		2,000	400	µg/l	12,130	7,770	12,460	7,810	10,390	9,330
Trimethylbenzenes (mixed isomers)		480	96	µg/l	8,530	1,376	1,901	1,398	1,417	1,645
Naphthalene		100	10	µg/l	462	312	455	388	477	422
Natural Attenuation Parameters										
Temperature				°F						
Conductivity				uS/cm						
Dissolved Oxygen				mg/l						
pH										
Oxidation-Reduction Potential				mV						

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

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

Enforcement Standard exceeded

Preventive Action Limit exceeded

BOLD	<i>Italics</i>
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Table 3h
Summary of Groundwater Analytical Results
MW3
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Sampled By -->							
Detected Parameters	ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93
Lead	15	1.5	µg/l	118	< 50	11	NS
Lead (Dissolved)	15	1.5	µg/l	NA	NA	< 50	80
GRO			mg/l	NA	< 100	NA	NA
VOC Parameters					< 100	< 100	72
Benzene	5	0.5	µg/l	< 1.0	Soil	< 5.0	NS
Ethylbenzene	700	140	µg/l	< 1.0	Excavation	< 5.0	NS
Toluene	800	160	µg/l	< 1.0	Completed	< 5.0	NS
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA	< 5.0	< 5.0	NS
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 5.0	< 5.0	NS
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.0	< 5.0	< 5.0	NS
Naphthalene	100	10	µg/l	< 1.0	NA	NA	NS
Dibromochloromethane			µg/l	< 1.0	NA	NA	NA
n-Propylbenzene			µg/l	< 1.0	NA	NA	NA
Isopropylbenzene			µg/l	< 1.0	NA	NA	NA
n-Butylbenzene			µg/l	< 1.0	NA	NA	NA
tert-Butylbenzene			µg/l	< 1.0	NA	NA	NA

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

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

Notes:

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

ND = Not Detected
 NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3i
Summary of Groundwater Analytical Results
MW3
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3j
Summary of Groundwater Analytical Results
MW4
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Sampled By ->										Earth Burners									
Detected Parameters		ES	PAL	Units	05/27/93	06/15/93	08/26/93	11/18/93	03/01/94	07/27/94	10/27/94	2/8/1995	5/19/1995	8/7/1995	12/15/1995	3/11/1996	11/17/2003		
Lead	15	1.5	µg/l	18	< 50	10	NA	NA	NA	NA	NA	15	80	NA	< 2	NA	< 50		
Lead (Dissolved)	15	1.5	µg/l	NA								140	NA	NA	NA	NA	NA		
GRO			mg/l	< 100		< 100	< 100	< 100	570	< 100	123		< 100	< 50	< 50	< 100			
VOC Parameters																			
Benzene	6	0.5	µg/l	3.0			Soil	146	< 5.0	34	< 5.0	39	72	5.83	23	37	< 0.5		
Ethybenzene	700	140	µg/l	< 1.0	Excavation	< 5.0	< 5.0	< 5.0	2.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	< 1.0	< 0.18		
Toluene	800	160	µg/l	< 1.0	Completed	< 5.0	< 5.0	< 5.0	34	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.54		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	NA					< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.69		
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0					< 5.0	30	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 1.0					< 5.0	37	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.05		
Naphthalene	100	10	µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		
Dibromochloromethane			µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		
n-Propylbenzene			µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		
Isopropylbenzene			µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		
n-Butylbenzene			µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		
tert-Butylbenzene			µg/l	< 1.0					NA	NA	NA	NA	NA	NA	NA	NA	NA		

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

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

Notes:

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

ND = Not Analyzed
 Enforcement Standard exceeded
 Preventive Action Limit exceeded

BOLD	<i>Italics</i>
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* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Table 3k
Summary of Groundwater Analytical Results
MW4
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 31
Summary of Groundwater Analytical Results
MW5
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3m
Summary of Groundwater Analytical Results
MW5R
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

pH = Not Analyzed

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

BOLD
Italics

Table 3n
Summary of Groundwater Analytical Results
MW6
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->						REI
	ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017	
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	6.5*
VOC Parameters							
Benzene	5	0.5	µg/l	< 0.40	< 0.40	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	< 0.39	< 0.39	< 0.39	< 0.39
Toluene	800	160	µg/l	0.71*	< 0.39	< 0.39	< 0.39
Methyl (tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	0.98*	< 0.80	< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	0.51*	< 0.42	< 0.42	< 0.42
Naphthalene	100	10	µg/l	< 0.42	< 0.42	< 0.42	< 0.42
Natural Attenuation Parameters							
Temperature		°F		60.25	57.19	47.08	
Conductivity		µS/cm		727	1,494	571	
Dissolved Oxygen		mg/l		1.36	1.93	3.03	
pH				6.72	6.11	6.14	
Oxidation-Reduction Potential		mV		-60.8	-44.4	29.8	

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3o
Summary of Groundwater Analytical Results
MW7
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	Sampled By -->						REI
	ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017	
VOC Parameters							
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	< 4.3
Benzene	5	0.5	µg/l	1.8	Sample	<i>2.4</i>	< 0.40
Ethylbenzene	700	140	µg/l	1.9	Damaged	< 0.39	< 0.39
Toluene	800	160	µg/l	3.0	Not	< 0.39	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	Reported	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	5.4		< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	1.4		< 0.42	< 0.42
Naphthalene	100	10	µg/l	1.7		< 0.42	< 0.42
Natural Attenuation Parameters							
Temperature			°F		54.4	52.43	43.02
Conductivity			µS/cm		1,215	1,573	810
Dissolved Oxygen			mg/l		1.63	1.90	3.49
pH					6.94	5.65	6.52
Oxidation-Reduction Potential			mV		-128.6	-88.9	63.8

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded **BOLD**
 Preventive Action Limit exceeded *Italics*

Table 3p
Summary of Groundwater Analytical Results
MW8
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

		Sampled By -->				REI	
Detected Parameters		ES	PAL	Units	6/29/2016	10/3/2016	7/7/2017
Dissolved Lead	15	1.5	µg/l	NA	NA	NA	11.8*
VOC Parameters							
Benzene	5	0.5	µg/l	236	37.9	119	115
Ethylbenzene	700	140	µg/l	106	20.2	78.6	33.7
Toluene	800	160	µg/l	17.3	1.5	6.0	4.9
Methyl Tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.97	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	50.3	6.1	18.2	9.6
Trimethylbenzenes (mixed isomers)	480	96	µg/l	9.5	5.9	20.8	9.6
Naphthalene	100	10	µg/l	11.3	8.9	17.5	11.0
Natural Attenuation Parameters							
Temperature		°F			55.15	52.64	42.86
Conductivity		µS/cm			2,102	2,085	976
Dissolved Oxygen		mg/l			0.65	0.67	2.85
pH					6.40	6.29	6.46
Oxidation-Reduction Potential		mV			-116.1	-26.3	-11.3

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded
 Preventive Action Limit exceeded

bold	<i>italics</i>
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Table 3q
Summary of Groundwater Analytical Results
MW9
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters		Sampled By -->		REI	
		ES	PAL	Units	T/T/2017
Dissolved Lead		15	1.5	µg/l	NA < 4.3
VOC Parameters					
Benzene		5	0.5	µg/l	< 0.50 < 0.40
Ethylbenzene		700	140	µg/l	< 0.50 < 0.39
Toluene		800	160	µg/l	< 0.50 < 0.39
Methyl tert-Butyl Ether (MTBE)		60	12	µg/l	< 0.17 < 0.48
Xylenes (mixed isomers)		2,000	400	µg/l	< 1.0 < 0.80
Trimethylbenzenes (mixed isomers)		480	96	µg/l	< 0.50 < 0.42
Naphthalene		100	10	µg/l	< 2.5 < 0.42
Natural Attenuation Parameters					
Temperature				°F	NA 43.71
Conductivity				uS/cm	NA 1,949
Dissolved Oxygen				mg/l	NA 3.63
pH					NA 5.9
Oxidation-Reduction Potential				mV	NA 24.5

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

NA = Not Analyzed

* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
 Enforcement Standard exceeded
 Preventive Action Limit exceeded

BOLD	<i>Italics</i>
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Table 3r
Summary of Groundwater Analytical Results
R-O-W Potable
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

Detected Parameters	ES	PAL	Units	Sampled By -->			REI
				6/28/2016	10/3/2016	7/7/2017	
VOC Parameters							
Benzene	5	0.5	µg/l	2.1	7.3	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	< 0.39	0.91*	< 0.39	< 0.39
Toluene	800	160	µg/l	< 0.39	< 0.39	< 0.39	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.48	< 0.48	< 0.48	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 0.80	< 0.80	< 0.80	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.42	< 0.42	< 0.42	< 0.42
Naphthalene	100	10	µg/l	< 0.42	< 0.42	< 0.42	< 0.42

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

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

Enforcement Standard exceeded

BOLD
<i>Italics</i>

Preventive Action Limit exceeded

Table 3s
Summary of Groundwater Analytical Results
On Site Potable Well
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

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

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

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

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

Enforcement Standard exceeded

Preventive Action Limit exceeded

** Collected after water softener

BOLD	<i>italics</i>
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Table 3t
Summary of Groundwater Analytical Results
Neighboring Potable Well
Moose Junction Lounge
13195 State Highway 35
Dairyland, WI

VOC Parameters	ES	PAL	Units	Off Site Portable (PW2) 2794 E Moose Road														
				10/12/1992	10/29/1992	11/17/2003	4/14/2006	7/27/2006	4/18/2007	5/15/2007	10/3/2007	9/10/2008	12/18/2008	7/13/2010	8/3/2010	11/23/2010	3/4/2011	
Benzene	5	0.5	µg/l	< 1.0	< 1.0	< 0.5	4.30	< 0.17	15.8	< 0.20	< 0.05	< 0.20	< 0.20	5.29	4.8	21.6	6.1	
Ethylbenzene	700	140	µg/l	< 1.0	< 1.0	2.6	1.41	< 0.20	4.25	0.42*	0.10*	< 0.20	< 0.20	3.25	2.65	7.99	3.4	
Toluene	800	160	µg/l	< 1.0	< 1.0	< 0.54	< 0.25	0.53*	< 0.40	0.88	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	0.61*	< 0.50	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 10.0	< 10.0	< 0.89	< 0.34	< 0.34	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	
Xylenes (mixed isomers)	2,000	400	µg/l	< 2.0	< 2.0	4.4*	1.39	< 0.33	< 1.0	0.37	< 1.00	3.05	3.12	8.01	2.7			
Trimethylbenzenes (mixed isomers)	480	96	µg/l	NA	NA	0.55*	< 1.20	2.94	< 0.20	< 0.20	< 0.20	0.99	2.16	5.88	0.82			
Naphthalene	100	10	µg/l	NA	NA	< 0.20	< 2.20	< 1.0	1.4	< 1.00	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Chloroform	6	0.6	µg/l	< 1.0	< 1.0	< 0.61	< 0.61	< 0.20	< 0.20	< 0.05	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.50	
Chloromethane	30	3	µg/l	NA	NA	< 0.91	< 0.91	< 0.30	< 0.30	0.16*	< 0.30	< 0.30	< 0.40	< 0.40	< 1.0	< 1.0		
1,4-Dichlorobenzene	75	15	µg/l	< 2.0	< 2.0	< 0.45	< 0.45	< 0.80	< 0.80	0.56	< 0.80	< 0.80	< 0.40	< 0.40	< 0.80	< 0.80	< 0.50	< 0.50
1,1,1-Trichloroethane	200	40	µg/l	< 1.0	< 1.0	< 0.42	< 0.42	< 0.20	< 0.20	0.17	< 0.20	< 0.20	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	5	0.5	µg/l	< 1.0	< 1.0	< 0.72	< 0.72	< 0.20	< 0.20	< 0.30	< 0.30	< 0.30	< 0.30	0.36*	0.34*	< 0.30	< 0.30	< 0.20
Isopropylbenzene			µg/l	NA	NA	< 1.0	< 0.99	< 0.99	0.29	< 0.10	< 0.05	< 0.10	< 0.10	< 0.10	0.48*	< 0.50	< 0.50	< 0.20
Off Site Portable (PW2) 2794 E Moose Road																		
VOC Parameters	ES	PAL	Units	7/22/2011	10/27/2011	1/26/2012	4/27/2012	10/5/2012	11/14/2013	8.6	4.95	2.6	Not	Not	Not	Not	Not	
Benzene	5	0.5	µg/l	< 0.20	8.36	12.7	4.63	2.32	2.6	Not	Not	Not	Not	Not	Not	Not	Not	
Ethylbenzene	700	140	µg/l	< 0.20	4.62	4.63	4.63	4.63	4.63	Sampled	Sampled	Sampled	Sampled	Sampled	Sampled	Sampled	Sampled	
Toluene	800	160	µg/l	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	Not	Not	Not	Not	Not	Not	Not	Not	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.00	4.48	4.03	4.03	4.03	4.03	Not	Not	Not	Not	Not	Not	Not	Not	Not
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.20	3.52	3.22	3.22	3.22	3.22	1.54	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	100	10	µg/l	< 1.0	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	6	0.6	µg/l	< 0.20	0.39*	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Chloromethane	30	3	µg/l	< 1.0	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40
1,4-Dichlorobenzene	75	15	µg/l	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80	< 0.80
1,1,1-Trichloroethane	200	40	µg/l	< 0.50	0.47*	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichloroethane	5	0.5	µg/l	< 0.30	0.24*	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30
Isopropylbenzene			µg/l	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

ES = NRI 140.10 Enforcement Standards

PAL = NRI 140.10 Preventive Action Limits

ND = Not Detected

NA = Not Analyzed

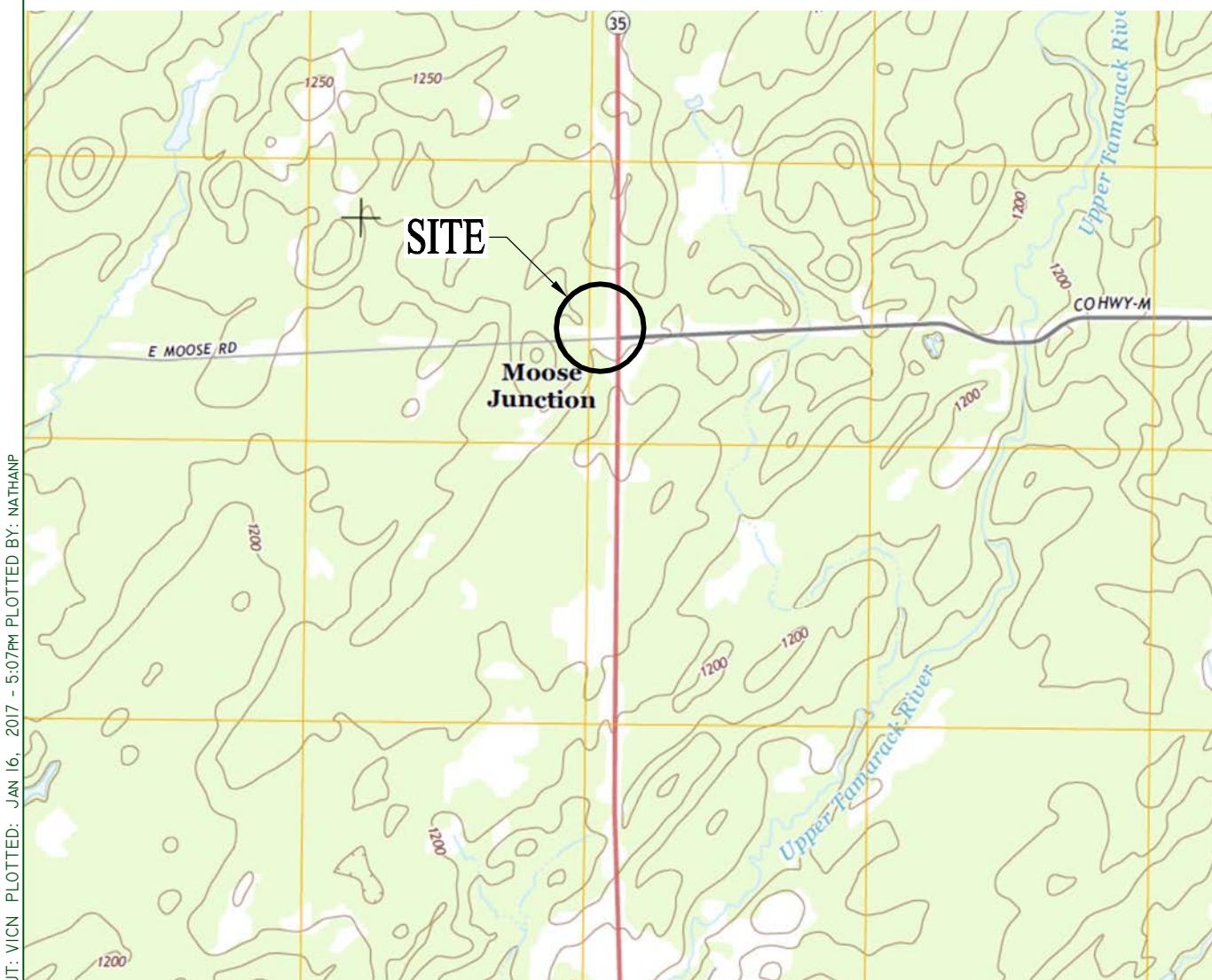
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

BOLD

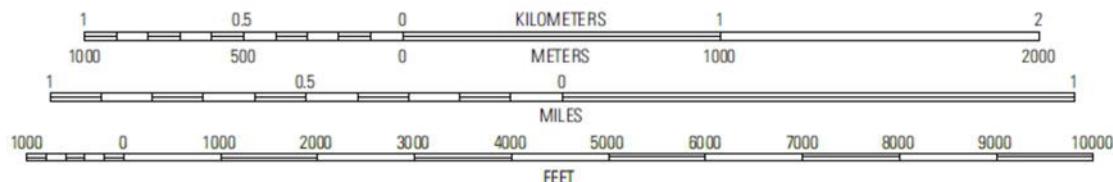
Italics

Enforcement Standard exceeded

Preventive Action Limit exceeded



SCALE 1:24 000

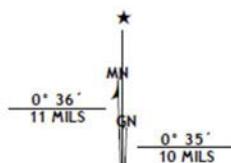


CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988



QUADRANGLE LOCATION

UTM GRID AND 2013 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



MOOSE JUNCTION, WI

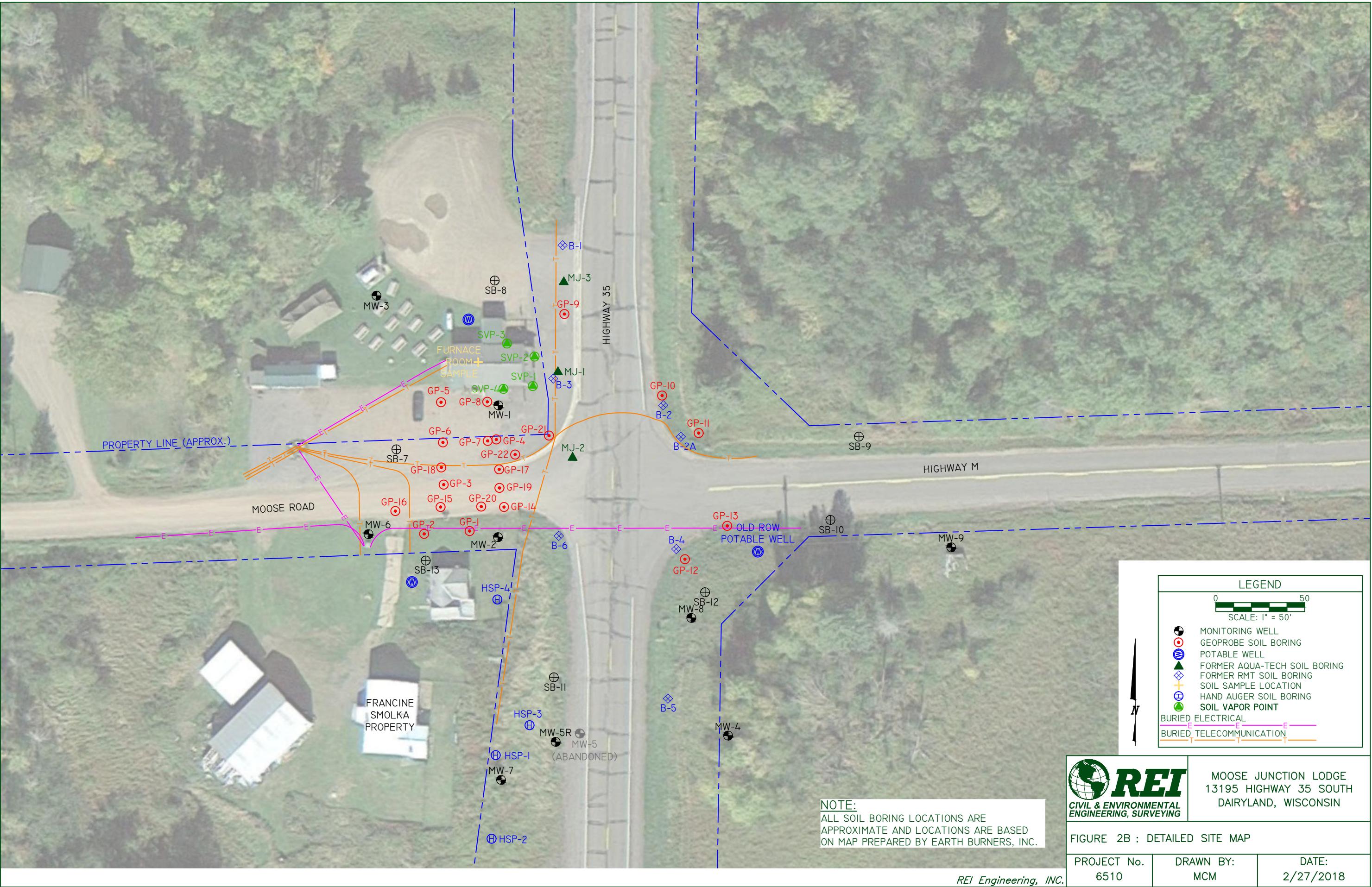
2013

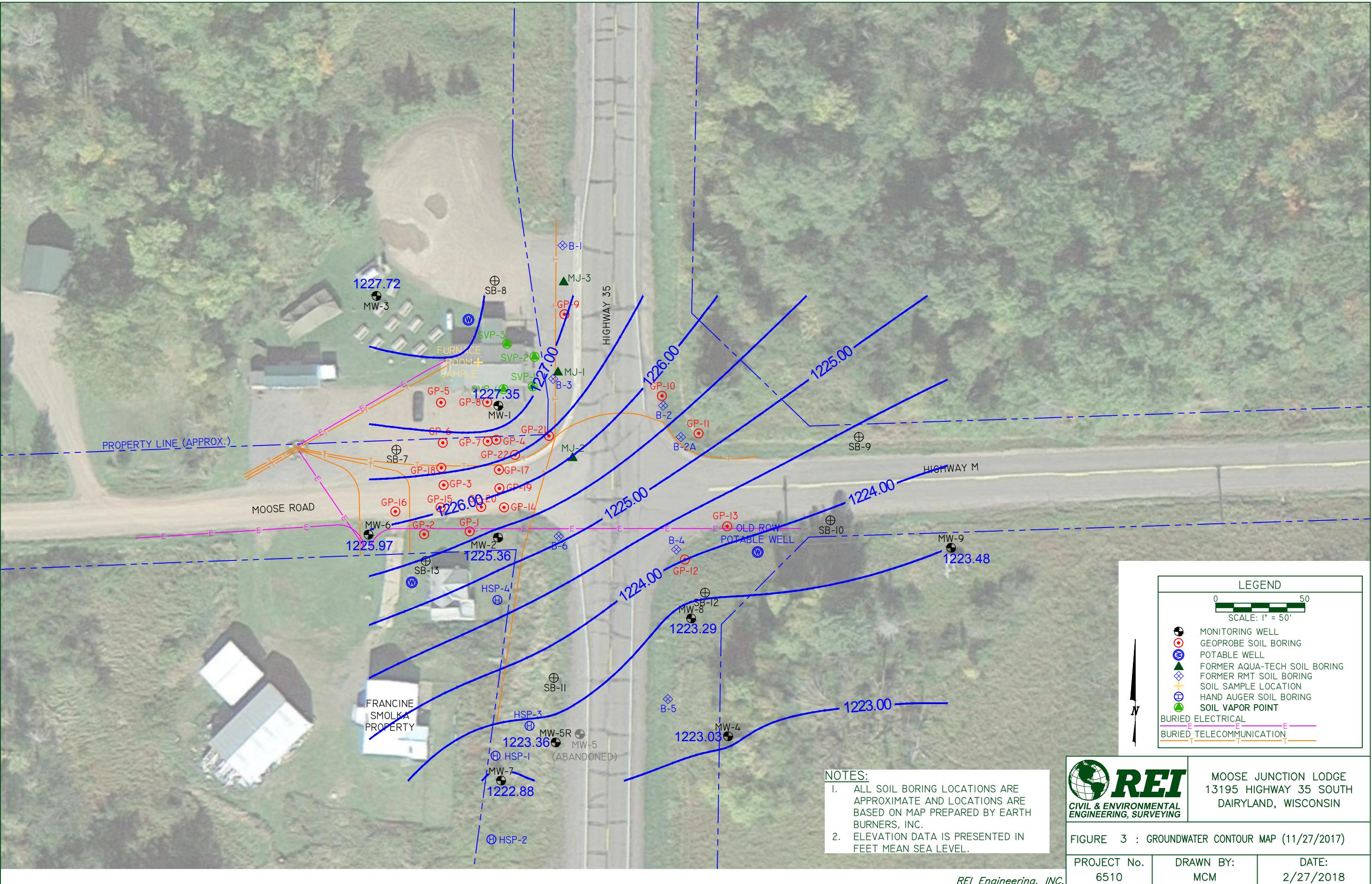
REI Engineering, Inc.

MOOSE JUNCTION LOUNGE 13195 HIGHWAY 35 SOUTH DAIRYLAND, WISCONSIN	FIGURE 1 : SITE VICINITY MAP		
PROJECT NO.	6510	DRAWN BY:	TAW

DATE:
3/12/2014







APPENDIX A

GEOPROBE BORING LOGS AND BOREHOLE ABANDONMENT FORMS



Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP5								
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/12/2017		Date Drilling Completed 6/12/2017		Drilling Method Geoprobe							
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	'5							
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP5 State Plane			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>							
Facility ID		County Douglas		County Code 16		Civil Town/City or Village Dairyland								
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	Soil Properties				RQD/Comments
					GP	CL				PID/FID	Compressive Strength	Moisture Content	Liquid Limit	
1	42			1	Gravel base coarse					0.0		M		
2	60			1	Sandy clay					0.0				
				2						0.0				
				3						0.0				
				4						0.0				
				5						0.0				
				6						0.0				
				7						0.0				
				8	Sandy clay w/ clasts					0.0				
				9										
				10										
				11	EOB @ 10.5' Refusal									
				12										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

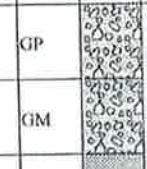
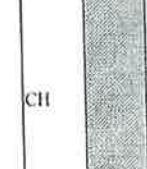
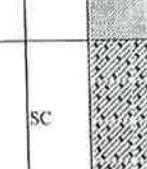
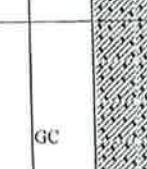
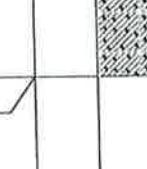
Firm

REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281, 283, 289, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in 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 instructions for more information, including where the completed form should be sent.

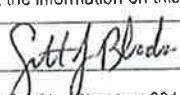
Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP8						
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/12/2017		Date Drilling Completed 6/12/2017		Drilling Method Geoprobe					
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in						
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP6			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>					
State Plane												
Facility ID		County Douglas		County Code 16		Civil Town/City/or Village Dairyland						
Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit			U.S.C.S.	Graphic	Well	Soil Properties			RQD/ Comments	
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet			PID/FID	Compressive Strength	Moisture Content	Liquid Limit		Plasticity Index
1	12	12		Gravel base coarse	GP		0.0	M				
				Fine brown sand w/ gravel	GM							
				Brown clay	CLl							
				Fine to medium sandy clay w/ gravel	SC							
				Mixed grain sand w/ gravelly clay	GC							
EOB @ 10'												
2	60	60		10			0.0					
				11								
12												

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature



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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management
Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP7										
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/12/2017		Date Drilling Completed 6/12/2017		Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	17									
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP7			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>									
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland										
Soil/ Rock Description And Geologic Origin For Each Major Unit				Soil Properties												
Sample	Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	M.	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	1		42		1	GP			0.0		M.					
	2		48		2											
					3											
					4											
					5											
					6	GC										
					7											
					8											
					9											
					10											
					11											

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature *Sgtt f Blodz*

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP8																																																																																																																													
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/12/2017	Date Drilling Completed 6/12/2017		Drilling Method Geoprobe																																																																																																																													
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	'8																																																																																																																												
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP8			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>																																																																																																																												
Facility ID		County Douglas	County Code 16		Civil Town/City/or Village Dairyland																																																																																																																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Sample</th> <th colspan="4">Soil/ Rock Description And Geologic Origin For Each Major Unit</th> <th colspan="2">Soil Properties</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Length Att. & Recovered (in)</th> <th>Blow Counts</th> <th>Depth In Feet</th> <th>U.S.C.S.</th> <th>Graphic</th> <th>Well</th> <th>PID/FID</th> <th>Compressive Strength</th> <th>Moisture Content</th> <th>Liquid Limit</th> <th>Plasticity Index</th> <th>P 200</th> <th>RQD/Comments</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2"></td> <td rowspan="2">36</td> <td rowspan="2"></td> <td>1</td> <td rowspan="2">GP</td> <td rowspan="2"> </td> <td rowspan="2">Well</td> <td rowspan="2">401</td> <td rowspan="2">M</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>2</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2"></td> <td rowspan="2">42</td> <td rowspan="2"></td> <td>5</td> <td rowspan="2">GC</td> <td rowspan="2"> </td> <td rowspan="2">Well</td> <td rowspan="2">1.6</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>6</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit				Soil Properties		Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments	1		36		1	GP		Well	401	M						2	2		42		5	GC		Well	1.6						6					7				0.0										8														9														10														11									
Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit				Soil Properties																																																																																																																													
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments																																																																																																																					
1		36		1	GP		Well	401	M																																																																																																																										
				2																																																																																																																															
2		42		5	GC		Well	1.6																																																																																																																											
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I hereby certify that the information on this form is true and the correct to the best of my knowledge

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REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management
Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP9										
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/12/2017		Date Drilling Completed 6/12/2017		Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	'9									
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP9 State Plane			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W <input type="checkbox"/>											
Facility ID		County Douglas	County Code 16		Civil Town/City/or Village Dairyland											
Number	Sample Type	Length Att & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	P/D/FID	Soil Properties				P 200	ROD/ Comments
					M	Compressive Strength					Moisture Content	Liquid Limit	Plasticity Index			
1		30		1	Asphalt base coarse	GP				0.6						
				2	Gravel base coarse material	SC				0.0						
				3	Sandy clay	CL										
				4	Gray clay w/ orange mottling											
				5												
				6												
				7	Brown clay	CL										
2		42		8	Sandy clay	SC										
				9												
				10	EOB @ 10'											
				11												

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP10					
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/13/2017		Date Drilling Completed 6/13/2017		Drilling Method Geoprobe				
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in					
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP10			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>				
State Plane											
Facility ID		County Douglas		County Code 16		Civil Town/City/or Village Dairyland					
Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		Well	Soil Properties				RQD/ Comments
Number	Type			Length Att. & Recovered (in)	USCS		Graphic	PID/FID	Compressive Strength	Moisture Content	
1		30		Topsoil/fill				M			
			1	Silty sand	SM		11.5				
			2	Silty sand w/ gravel	GM						
			3								
			4								
			5	Sandy clay w/ stones moist to wet	SC		25.5				
2		42	6								
			7								
			8								
			9								
			10	EOB @ 10'			81.2				
			11				1703				

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Signature

the information on this form.

Elm

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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP11										
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/13/2017	Date Drilling Completed 6/13/2017	Drilling Method Geoprobe											
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	'11										
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP11			Lat	Local Grid Location		E <input type="checkbox"/>										
State Plane			Long			S <input type="checkbox"/> W <input type="checkbox"/>										
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland												
Number	Sample Type	Length Att & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	P/D/FID	Soil Properties				P 200	ROD/Comments
					M	W					Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
1	30	62.3	SW	Topsoil/fill												
				Fine to medium sand												
				2												
				3	Clayey sand and gravel											
				4												
2	60	172.3	SC	Fine to medium grain sand w/ trace stones Saturated @5', dryer with depth												
				5												
				6												
				7												
				8												
9																
10	EOB @ 10'															
11																

I hereby certify that the information on this form is true and correct to the best of my knowledge

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Stu J. Bleloch

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Route To: Watershed/Wastewater Remediation/Redevelopment Waste Management Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP12								
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/13/2017	Date Drilling Completed 6/13/2017	Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	'12								
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP12			Lat	Local Grid Location		E <input type="checkbox"/>								
State Plane			Long			S <input type="checkbox"/> W <input type="checkbox"/>								
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland										
Number	Sample Type	Length Att & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit			Well	PID/FID	Soil Properties				RQD/Comments
					U.S.C.S.	Graphic				Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	
1	30	30	10	Topsoil/fill				0.0		W				
				Silts and fine grain sand	SM		35.8		M					
				Clay	CL		31.7							
				Gray sandy clay w/ orange mottles	SC		13.4							
				Brown silty sand w/ trace stones	SM		30.4							
				EOB @ 10'				54.2						
2	60	60	10											

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Route To: Watershed/Wastewater Remediation/Redevelopment Other

Waste Management
Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number GP13										
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/13/2017	Date Drilling Completed 6/13/2017	Drilling Method Geoprobe											
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	'13										
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP13			Lat	Local Grid Location		E <input type="checkbox"/>										
State Plane			Long			S <input type="checkbox"/> W <input type="checkbox"/>										
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland												
Number	Type	Length Att & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	P/D/FID	Soil Properties				P 200	RQD/Comments
					Topsoil/fill						M	Compressive Strength	Moisture Content	Liquid Limit		
1	30			10	Tops soil/fill		8.2	14.8	W	43.8	13.6					
					Silty sand	SM										
					Gray silts w/ mottles moist	SM										
					Sandy silt	SM										
					Wet gray silt w/ black mottles wcl	SM										
2	42			11	EOB @ 10'											

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Route To: Watershed/Wastewater Remediation/Redevelopment Other

Waste Management
Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP14								
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Sampling LLC (Derrin and Keith)			Date Drilling Started 11/28/17	Date Drilling Completed 11/28/17	Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-14	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	2-14								
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-14			Lat	Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>								
State Plane		Long												
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland										
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit			Soil Properties					RQD/ Comments	
					U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200
1		24 in.		1	GRAVEL Sandy gravel fill			1492 ppm						
				2	PEAT Black peat material									
				3	SAND Brown silty sand (F-M) -Petroleum Odor									
				4	SAND Brown/dark grey silty sand (F-M) with gravel -Petroleum Sheen/Odor									
2		22 in.		5				915 ppm						
				6										
				7										
				8	SAND Grey/brown silty sand (F-C) with Gravel									
3		20 in.		9	SAND Brown silty sand (F-M) -Petroleum Sheen/Odor			399 ppm						
				10										
				11										
				12	EOB EOB @12' BLS									
				13										
				14										
				15										

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Signature

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REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

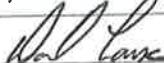
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP15								
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Sampling LLC (Derrin and Keith)			Date Drilling Started 11/28/17	Date Drilling Completed 11/28/17	Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-15	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	'15								
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP15			Lat	Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>								
State Plane		Long												
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland										
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		Soil Properties						RQD/Comments	
					U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200
1		30 in		1	GRAVEL Gravel fill	SM								
				2	SAND Brown silty sand	SC	5.6 ppm							
				3	CLAY Brown silty clay with gravel @ bottom									
				4	CLAY Brown sandy clay with trace gravel									
2		21 in.		5		SC	2.0 ppm							
				6										
				7										
3		40 in.		8										
				9										
				10										
				11										
				12	SAND Silty sand (F-M)	SM	0.5 ppm							
				13	EOB EOB @12' BLS									
				14										
				15										

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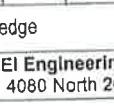
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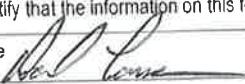
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP16											
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Samping LLC (Derrin and Keith)			Date Drilling Started 11/28/17		Date Drilling Completed 11/28/17		Drilling Method Geoprobe										
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-16	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	2-16										
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> GP-16			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>										
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland											
Facility ID						Soil Properties			RQD/ Comments								
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic		Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1		22 in		1	SAND Brown gravelly sand		SM		Well	0.7 ppm 0.9 ppm 1.4 ppm 1.4 ppm	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
2		24 in		2	SAND Brown clayey sand												
				3	CLAY Brown silty clay with gravel												
				4	SAND Silty sand (F-M) with gravel												
3		13 in		5	SAND Brown silty sand		SC		Well	1.4 ppm	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				6	SAND Silty sand (F-M) with gravel												
				7	SAND Brown silty sand												
				8	SAND Brown silty sand												
				9	SAND Brown silty sand												
				10	SAND Brown silty sand												
				11	SAND Brown silty sand												
				12	EOB EOB @12' BLS		SM		Well	1.4 ppm	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				13	SAND Brown silty sand												
				14	SAND Brown silty sand												
				15	SAND Brown silty sand												

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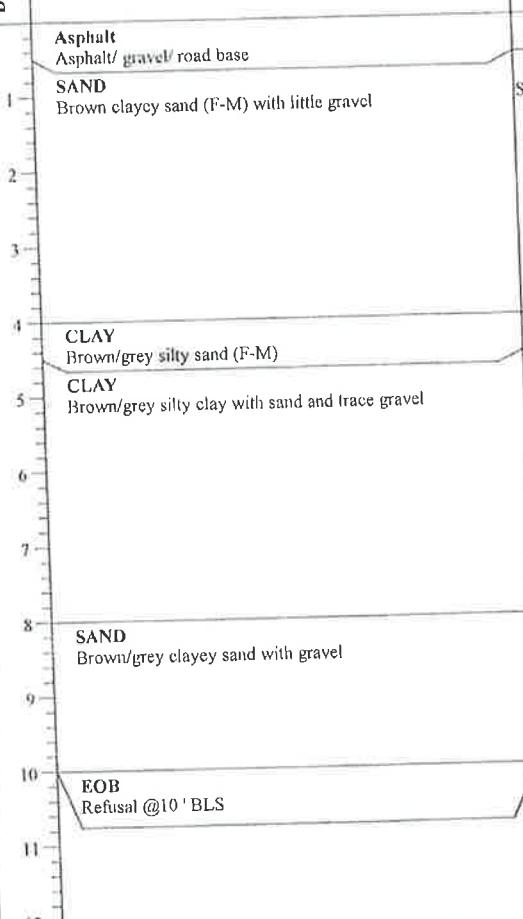
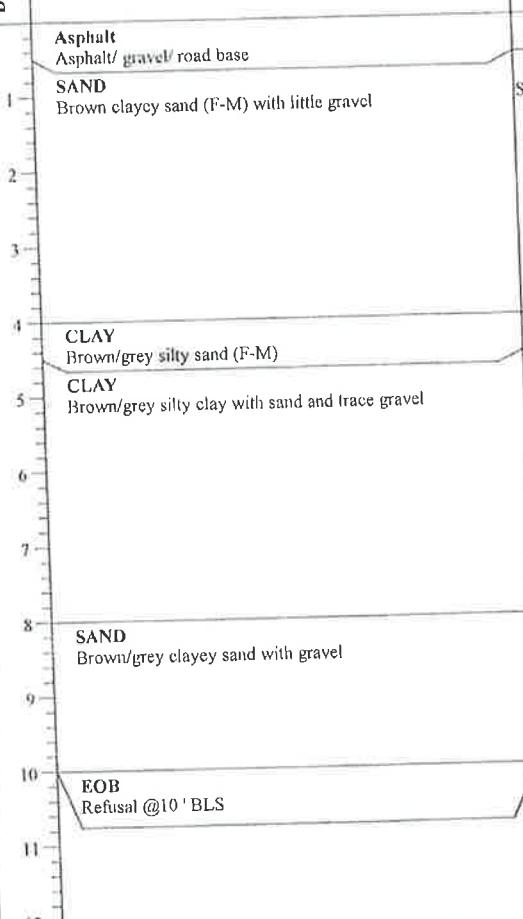
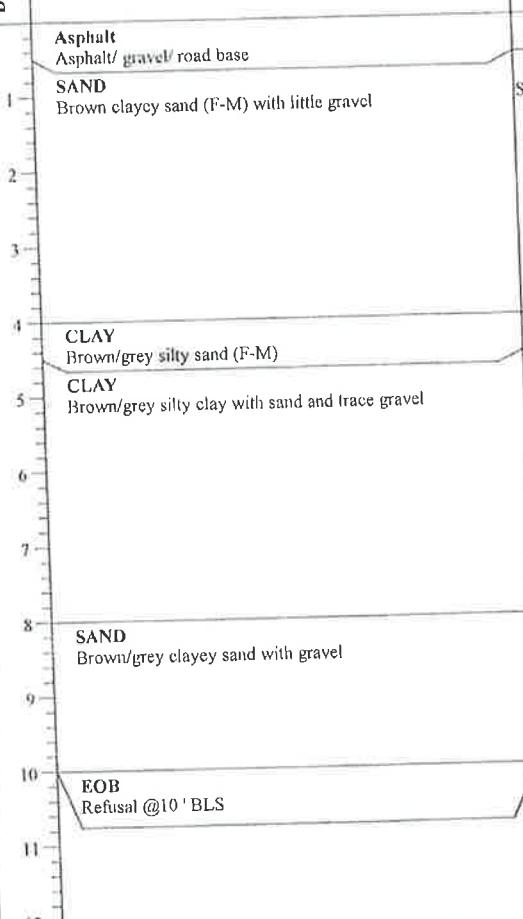
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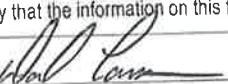
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP17																																																																																			
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Samping LLC (Derrin and Keith)			Date Drilling Started 11/28/17		Date Drilling Completed 11/28/17		Drilling Method Geoprobe																																																																																		
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-17	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	1-17																																																																																		
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-17			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>																																																																																		
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland																																																																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Sample</th> <th colspan="4">Soil/ Rock Description And Geologic Origin For Each Major Unit</th> <th colspan="4">Soil Properties</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Length Att. & Recovered (in)</th> <th>Blow Counts</th> <th>Depth In Feet</th> <th></th> <th>U.S.C.S.</th> <th>Graphic</th> <th>Well</th> <th>PID/FID</th> <th>Compressive Strength</th> <th>Moisture Content</th> <th>Liquid Limit</th> <th>Plasticity Index</th> <th>P 200</th> <th>RQD/Comments</th> </tr> </thead> <tbody> <tr> <td rowspan="2">1</td> <td rowspan="2"></td> <td rowspan="2">28 in.</td> <td rowspan="2"></td> <td rowspan="2">1</td> <td>Asphalt Asphalt/ gravel/ road base</td> <td rowspan="2">SC</td> <td rowspan="2"></td> <td rowspan="2">Well</td> <td rowspan="2">0.0 ppm</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>SAND Brown clayey sand (F-M) with little gravel</td> </tr> <tr> <td rowspan="2">2</td> <td rowspan="2"></td> <td rowspan="2">24 in.</td> <td rowspan="2"></td> <td rowspan="2">4</td> <td>CLAY Brown/grey silty sand (F-M)</td> <td rowspan="2">CL</td> <td rowspan="2"></td> <td rowspan="2">Well</td> <td rowspan="2">0.1 ppm</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>CLAY Brown/grey silty clay with sand and trace gravel</td> </tr> <tr> <td rowspan="2">3</td> <td rowspan="2"></td> <td rowspan="2">14 in.</td> <td rowspan="2"></td> <td rowspan="2">8</td> <td>SAND Brown/grey clayey sand with gravel</td> <td rowspan="2">SC</td> <td rowspan="2"></td> <td rowspan="2">Well</td> <td rowspan="2">8.1 ppm</td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> <td rowspan="2"></td> </tr> <tr> <td>EOB Refusal @10' BLS</td> </tr> <tr> <td colspan="9">  </td> </tr> </tbody> </table>									Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit				Soil Properties				Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet		U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/Comments	1		28 in.		1	Asphalt Asphalt/ gravel/ road base	SC		Well	0.0 ppm						SAND Brown clayey sand (F-M) with little gravel	2		24 in.		4	CLAY Brown/grey silty sand (F-M)	CL		Well	0.1 ppm					CLAY Brown/grey silty clay with sand and trace gravel	3		14 in.		8	SAND Brown/grey clayey sand with gravel	SC		Well	8.1 ppm					EOB Refusal @10' BLS									
Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit				Soil Properties																																																																																			
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					SAND Brown clayey sand (F-M) with little gravel																																																																																				
2		24 in.		4	CLAY Brown/grey silty sand (F-M)	CL		Well	0.1 ppm																																																																																
					CLAY Brown/grey silty clay with sand and trace gravel																																																																																				
3		14 in.		8	SAND Brown/grey clayey sand with gravel	SC		Well	8.1 ppm																																																																																
					EOB Refusal @10' BLS																																																																																				
																																																																																									

I hereby certify that the information on this form is true and the correct to the best of my knowledge

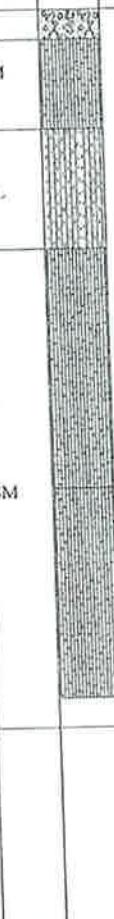
Signature 

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

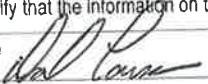
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP18									
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Samping LLC (Derrin and Keith)			Date Drilling Started 11/28/17		Date Drilling Completed 11/28/17		Drilling Method Geoprobe								
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-18	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	1-18								
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-18			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>								
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland									
Facility ID						Soil Properties			RQD/ Comments						
Sample Number	Type Blow Counts	Length Act. & Recovered (in)	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well		PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200
1		20 in.	1	GRAVEL Gravel		SM			0.0 ppm						
			2	SAND Brown silty sand (F-M) with gravel		CL			0.0 ppm						
2		17 in.	3	CLAY Brown silty clay					0.0 ppm						
			4	SAND Brown/grey silty sand (F-M) with trace gravel					0.0 ppm						
3		28 in.	5						0.0 ppm						
			6						0.0 ppm						
			7						0.0 ppm						
			8	SAND Brown/grey silty sand (F-M)		SM			0.0 ppm						
			9						0.0 ppm						
			10						0.0 ppm						
			11						0.0 ppm						
			12	ROCK Rock material					0.0 ppm						
			13	EOB Refusal @12' BLS					0.0 ppm						
			14												
			15												

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP19								
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Sampling LLC (Derrin and Keith)			Date Drilling Started 11/28/17		Date Drilling Completed 11/28/17		Drilling Method Geoprobe							
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-19	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2 25 in	1-19							
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-19			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>							
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland								
Facility ID			Soil/ Rock Description And Geologic Origin For Each Major Unit			Soil Properties			RQD/Comments					
Sample Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	U.S.C.S.	Graphic	Well	PLD/FID		Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200
1		20 in		ROAD BASE Road base				9.8 ppm						
				SAND Dark brown silty sand (F-M) with gravel	SM			0.8 ppm						
				SAND Light brown sand (F-M) with grey clay				2.9 ppm						
2		28 in		CLAY Red/brown sandy (F-C) dry clay	CL			0.0 ppm		Wet @ 7 BLS				
								1.1 ppm						
3		N/A		REFUSAL Refusal @ 9' BLS										
				10										
				11										
				12										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

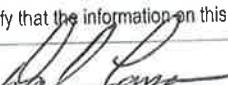
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-18-000301			Boring Number GP-20													
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Samping LLC (Derrin and Keith)			Date Drilling Started 11/28/17		Date Drilling Completed 11/28/17		Drilling Method Geoprobe												
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-20	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	1-20												
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-20			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>												
State Plane		County Douglas		County Code 16		Civil Town/City/or Village Dairyland													
Number	Sample	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit				U.S.C.S.	Graphic	Well	P/D/FID	Soil Properties				P 200	ROD/Comments
														Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
1			12 in.		1	GRAVEL Gravel and sand					0.0 ppm								
2			10 in.		2	SAND Brown silty sand (F-M) with gravel					0.1 ppm								
3			35 in.		3						0.0 ppm								
					4														
					5														
					6														
					7														
					8														
					9														
					10														
					11														
					12	EOB EOB @ 12' BLS													
					13														
					14														
					15														

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature 

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

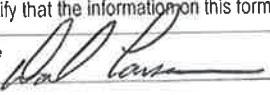
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP-21								
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Samping LLC (Derrin and Keith)			Date Drilling Started 11/28/17	Date Drilling Completed 11/28/17	Drilling Method Geoprobe									
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-21	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25 in	2-21								
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-21			Lat	Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>								
State Plane			Long											
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland										
Number	Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit			Soil Properties					RQD/Comments	
					U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		P 200
1		24 in.		1	ASPHALT Asphalt			105.6 ppm						
				2	SAND Brown/grey silty sand (F-M) with gravel -Petroleum Odor			968 ppm						
2		20 in.		6			SM	786 ppm						
				7										
				8	GRAVEL Layer of gravel									
				9	SAND Brown/grey silty sand (F-M)									
3		30 in.		10										
				11	SAND Fine sand with little gravel									
				12	EOB EOB @ 12' BLS			1292 ppm						
				13										
				14										
				15										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature 

Firm REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number 03-16-000301			Boring Number GP-22							
Boring Drilled By: Name of crew chief (first, last) and Firm Geiss Soil and Sampling LLC (Derrin and Keith)			Date Drilling Started 11/28/17	Date Drilling Completed 11/28/17	Drilling Method Geoprobe								
WI Unique Well No.	DNR Well ID No.	Common Well Name GP-22	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2 25 in	2-22							
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location GP-22			Lat	Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>							
State Plane		Long											
Facility ID		County Douglas	County Code 16	Civil Town/City/or Village Dairyland									
Number	Sample		Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	Soil Properties				RQD/ Comments
	Type	Length Att. & Recovered (in)		Blow Counts						PID/FID	Compressive Strength	Moisture Content	
1	17 in		1	ASPHALT Asphalt				23.4 ppm					P 200
2	17 in		2	SAND Brown/grey silty sand (F-M) with gravel -Petroleum Odor		SM		47.2 ppm					Wet @ 10' BLS
3	26 in		8	SAND Brown silty fine sand				46.4 ppm					
			12	EOB EOB @ 12' BLS									
			13										
			14										
			15										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.

4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP5 Douglas	Original Well Owner (if Known) Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable) Gov't Lot _____ Grid Number		E W	Present Well Owner Moose Junction Lounge
Grid Location	FT. N <input type="checkbox"/> S., ft. E. <input type="checkbox"/> W.	Street or Route 13195 S. State 35	
Civil Town Name	City, State, Zip Code Dairyland, WI		
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/12/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) 6/12/2017

- Monitoring Well
- Water Well
- Drillhole
- Borehole

Construction Report Available

Yes No

Construction Type:

- Drilled Driven (Sandpoint) Dug
- Other (Specify) _____

Formation Type

- Unconsolidated Formation Bedrock

Total Well Depth (ft.) 10.5 Casing Diameter (ins.) 2
(From groundsurface)

Casing Depth (ft.) NA

Was Well Annular Space Grouted? Yes No Unknown
If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) 6

- Pump & Piping Removed? Yes No Not Applicable
Liner(s) Removed? Yes No Not Applicable
Screen Removed? Yes No Not Applicable
Casing Left in Place? Yes No
If No, Explain _____

- Was Casing Cut Off Below Surface? Yes No
Did Sealing Material Rise to Surface? Yes No
Did Material Settle After 24 Hours? Yes No
If Yes, Was Hole Retopped? Yes No

(a) Required Method of Placing Sealing Material

- Conductor Pipe-Gravity Conductor Pipe-Pumped
- Dump Bailer Other (Explain) _____

(6) Sealing Materials

- Neat Cement Grout
 - Sand-Cement (Concrete) Grout
 - Concrete
 - Clay-Sand Slurry
 - Bentonite-Sand Slurry
 - Chipped Bentonite
- For monitoring wells and monitoring well boreholes on _____
- Bentonite Pellets
 - Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	10.5 feet	0.34 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

David Larsen / REI

Signature of Person Doing Work

Date Signed

Street or Route

4080 N 20th Ave

Telephone Number

(715) 675-9784

City, State, Zip Code
Wausau, WI 54401

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B Rev. 7-89

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(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP6	Original Well Owner (if Known) Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable) Gov't Lot		Present Well Owner Moose Junction Lounge	
Grid Location FT. N <input type="checkbox"/> S., ft. E. <input type="checkbox"/> W.		Street or Route 13195 S. State 35	
Civil Town Name		City, State, Zip Code Dairyland, WI	
Street Address of Well		Reason For Abandonment Soil and groundwater sampling complete	
City, Village		Date of Abandonment 6/12/17	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/12/2017</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) <u> </u>	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth (ft.) <u>10</u> (From groundsurface)	Casing Diameter (ins.) <u>2</u>
Casing Depth (ft.) <u>NA</u>	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	If Yes, To What Depth? _____ Feet

(4) Depth to Water (Feet) <small>Not Encountered</small>	
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
Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No
If No, Explain _____	
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	
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	
(a) Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer	<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain) _____
(6) Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes on <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	10 feet	0.32 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

David Larsen /REI

Signature of Person Doing Work

Date Signed

Street or Route

4080 N 20th Ave

City, State, Zip Code
Wausau, WI 54401

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89

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(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP7 Douglas	Original Well Owner (if Known) Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable)		Present Well Owner Moose Junction Lounge	
Gov't Lot		Grid Number 13195 S. State 35	
Grid Location	FT. N <input type="checkbox"/> S., ft. E. <input type="checkbox"/> W.	City, State, Zip Code Dairyland, WI	
Civil Town Name	Facility Well No. and/or Name (If Applicable)		WI Unique Well No. -----
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/12/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/12/2017</u>		(4) Depth to Water (Feet) <input type="checkbox"/> Not Encountered	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No Liner(s) Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Screen Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Casing Left in Place? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Explain _____	Not Applicable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Not Applicable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Not Applicable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	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 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 checked="" type="checkbox"/> No	Yes <input type="checkbox"/> No Yes <input checked="" type="checkbox"/> No Yes <input checked="" type="checkbox"/> No Yes <input type="checkbox"/> No
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	(a) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer Other (Explain) _____	For monitoring wells and monitoring well boreholes on _____
Total Well Depth (ft.) <u>9.5</u> (From ground surface)	Casing Diameter (ins.) <u>2</u>	(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite
Casing Depth (ft.) <u>NA</u>	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet		

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	9.5 feet	0.3 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

David Larsen / REI

Signature of Person Doing Work

Date Signed

Street or Route

4080 N 20th Ave

City, State, Zip Code
Wausau, WI 54401

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89

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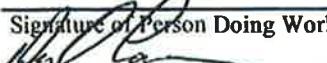
(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (if Known)	
GP8	Douglas	Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable)		E W	Present Well Owner Moose Junction Lounge
Gov't Lot		Grid Number	Street or Route 13195 S. State 35
Grid Location	FT. N	S., ft. E.	City, State, Zip Code Dairyland, WI
Civil Town Name	Facility Well No. and/or Name (If Applicable) WI Unique Well No. -----		
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/12/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/12/2017</u>		(4) Depth to Water (Feet) <u>Not encountered</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If No, Explain _____	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) <u>9.5</u> (From ground surface)	Casing Diameter (ins.) <u>2</u>	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Casing Depth (ft.) <u>NA</u>	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	For monitoring wells and monitoring well boreholes only
(a) Required Method of Placing Sealing Material		(6) Sealing Materials	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer		<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain) _____	<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	

(7) Sealing Material Used		From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular bentonite and gravel cover		Surface	9.5 feet	0.3 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work David Larsen / REI		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work 	Date Signed	Date Received/Inspected	District/County
Street or Route 4080 N 20th Ave	Telephone Number (715) 675-9784	Reviewer/Inspector	
City, State, Zip Code Wausau, WI 54401		Follow up Necessary	

DNR/COUNTY

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County	Original Well Owner (if Known)	
GP9	Douglas	Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable) Gov't Lot		E W	Present Well Owner Moose Junction Lounge
Grid Number		Street or Route 13195 S. State 35	
Grid Location	FT. N <input type="checkbox"/> S., <input type="checkbox"/> ft. E. <input type="checkbox"/> W.	City, State, Zip Code Dairyland, WI	
Civil Town Name	Facility Well No. and/or Name (If Applicable)		WI Unique Well No. -----
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/13/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/13/2017</u>		(4) Depth to Water (Feet) <u>6</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) <u>_____</u>	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If No, Explain _____	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) <u>10</u> (From ground surface)	Casing Diameter (ins.) <u>2</u>	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Casing Depth (ft.) <u>NA</u>	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? <u>_____</u> Feet	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
(a) Required Method of Placing Sealing Material		(b) Sealing Materials	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer		<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain) _____	For monitoring wells and monitoring well boreholes on <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	10 feet	0.32 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work

David Larsen / REI

Signature of Person Doing Work

Date Signed

Street or Route

4080 N 20th Ave

City, State, Zip Code
Wausau, WI 54401

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected

District/County

Reviewer/Inspector

Follow up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89

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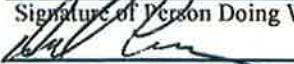
(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP10 Douglas	Original Well Owner (if Known) Moose Junction Lounge	
____ 1/4 of ____ 1/4 of Sec. ___, T. __ N; R. ___. (If applicable) Gov't Lot		E W	Present Well Owner Moose Junction Lounge
Grid Location	Grid Number	Street or Route 13195 S. State 35	
FT. N <input type="checkbox"/> S.,	ft. E. <input type="checkbox"/> W.	City, State, Zip Code Dairyland, WI	
Civil Town Name	Facility Well No. and/or Name (If Applicable)		WI Unique Well No. -----
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/13/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/13/2017</u>		(4) Depth to Water (Feet) <u>6</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If No, Explain _____	
Total Well Depth (ft.) <u>10</u> (From ground surface)	Casing Diameter (ins.) <u>2</u>	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Casing Depth (ft.) <u>NA</u>	Was Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	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	
(a) Required Method of Placing Sealing Material		(b) Sealing Materials	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer		<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain) _____	For monitoring wells and monitoring well boreholes on
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	10 feet	0.32 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work David Larsen / REI	
Signature of Person Doing Work 	Date Signed
Street or Route 4080 N 20th Ave	Telephone Number (715) 675-9784
City, State, Zip Code Wausau, WI 54401	

(10) FOR DNR OR COUNTY USE ONLY	
Date Received/Inspected	District/County
Reviewer/Inspector	
Follow up Necessary	

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89
All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis.
Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP11 Douglas	Original Well Owner (if Known) Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable)		Present Well Owner Moose Junction Lounge	
Gov't Lot _____ Grid Number _____		Street or Route 13195 S. State 35	
Grid Location FT. N <input type="checkbox"/> S., <input type="checkbox"/> ft. E. <input type="checkbox"/> W.		City, State, Zip Code Dairyland, WI	
Civil Town Name		Facility Well No. and/or Name (If Applicable) _____ WI Unique Well No. _____	
Street Address of Well		Reason For Abandonment Soil and groundwater sampling complete	
City, Village		Date of Abandonment 6/13/17	

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) <u>6/13/2017</u>		(4) Depth to Water (Feet) <u>5</u>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If No, Explain _____	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Well Depth (ft.) <u>10</u> (From groundsurface)	Casing Diameter (ins.) <u>2</u>	Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Casing Depth (ft.) <u>NA</u>	Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown If Yes, To What Depth? _____ Feet	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No	(a) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____
		(6) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	For monitoring wells and monitoring well boreholes on <input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
	Granular bentonite and gravel cover	Surface	10 feet	0.32 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work David Larsen / REI		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work	Date Signed	Date Received/Inspected	District/County
Street or Route 4080 N 20th Ave	Telephone Number (715) 675-9784	Reviewer/Inspector	Follow up Necessary
City, State, Zip Code Wausau, WI 54401			

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-5B
Rev. 7-89

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(1) GENERAL INFORMATION		(2) FACILITY NAME	
Well/Drillhole/Borehole Location	County GP12 Douglas	Original Well Owner (if Known) Moose Junction Lounge	
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable)		E <input type="checkbox"/> W <input type="checkbox"/>	Present Well Owner Moose Junction Lounge
Gov't Lot _____ Grid Number _____		Street or Route 13195 S. State 35	
Grid Location	FT. N <input type="checkbox"/> S., _____ ft. E. <input type="checkbox"/> W.	City, State, Zip Code Dairyland, WI	
Civil Town Name	Facility Well No. and/or Name (If Applicable)		WI Unique Well No. -----
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete		
City, Village	Date of Abandonment 6/13/17		

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 6/13/2017		(4) Depth to Water (Feet) <small>Not Encountered</small>	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	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
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If No, Explain _____	
Total Well Depth (ft.) 10 (From groundsurface)	Casing Diameter (ins.) 2	Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Casing Depth (ft.) NA	Was Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Was Well Annular Space Grouted? If Yes, To What Depth?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown Feet _____	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
(a) Required Method of Placing Sealing Material		(b) Sealing Materials	
<input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer		<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain) _____	For monitoring wells and monitoring well boreholes on _____
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite	<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite

(7)	Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular bentonite and gravel cover		Surface	10 feet	0.32 bags	

(a) Comments: _____

(9) Name of Person or Firm Doing Sealing Work David Larsen /REI		(10) FOR DNR OR COUNTY USE ONLY	
Signature of Person Doing Work 	Date Signed	Date Received/Inspected	District/County
Street or Route 4080 N 20th Ave	Telephone Number (715) 675-9784	Reviewer/Inspector	
City, State, Zip Code Wausau, WI 54401		Follow up Necessary	

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT
Form 3300-SB
Rev. 7-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION		(2) FACILITY NAME			
Well/Drillhole/Borehole Location	County GP13 Douglas	Original Well Owner (if Known) Moose Junction Lounge			
1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ (If applicable) Gov't Lot		Present Well Owner Moose Junction Lounge Street or Route 13195 S. State 35			
Grid Location	FT. N <input type="checkbox"/> S., ft. E. <input type="checkbox"/> W.	City, State, Zip Code Dairyland, WI			
Civil Town Name	Facility Well No. and/or Name (If Applicable)		WI Unique Well No. -----		
Street Address of Well	Reason For Abandonment Soil and groundwater sampling complete				
City, Village	Date of Abandonment 6/13/17				
WELL/DRILLHOLE/BOREHOLE INFORMATION					
(3) Original Well/Drillhole/Borehole Construction Completed On (Date) 6/13/2017		(4) Depth to Water (Feet) <u>7</u>			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Borehole	Construction Report Available <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable		
Construction Type: <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug	Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable		
Formation Type <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable		
Total Well Depth (ft.) <u>10</u> (From groundsurface)	Casing Diameter (ins.) <u>2</u>	Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Was Casing Cut Off Below Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If No, Explain _____	If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No		
(a) Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Dump Bailer		For monitoring wells and monitoring well boreholes only			
(b) Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input type="checkbox"/> Chipped Bentonite		<input type="checkbox"/> Bentonite Pellets <input checked="" type="checkbox"/> Granular Bentonite			
(7) Sealing Material Used		From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume	Mix Ratio or Mud Weight
Granular bentonite and gravel cover		Surface	10 feet	0.32 bags	
(a) Comments:					
(9) Name of Person or Firm Doing Sealing Work David Larsen / REI Signature of Person Doing Work		(10) FOR DNR OR COUNTY USE ONLY			
		Date Received/Inspected		District/County	
		Reviewer/Inspector			
		Follow up Necessary			
DNR/COUNTY					

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater
 Waste Management Other: _____

- Remediation/Redevelopment

1. Well Location Information

County: Douglas WI Unique Well # of Removed Well: GP-14

2. Facility / Owner Information

Latitude / Longitude (see instructions)

Format Code:

N

DD

W

DDM

Method Code:

GPS008

SCR002

OTH001

1/4 / 1/4

or Gov't Lot #

E

W

Section

Township

N

Range

W

Well Street Address

13195 S. State 35

Well City, Village or Town

Dairyland

Well ZIP Code

54380

Subdivision Name

Lot #

Reason for Removal from Service

Temporary Borehole

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well

Original Construction Date (mm/dd/yyyy)

11/28/17

Water Well

If a Well Construction Report is available,

Borehole / Drillhole

please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): Hydraulic/Direct Push

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)

12'

Casing Diameter (in.)

2.25"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted?

Yes No Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

3/8" bentonite Chips

From (ft.)

Surface

To (ft.)

12'

No. Yards, Sacks Sealant or Volume (circle one)

1/3

Mix Ratio or Mud Weight

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other: _____

- Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well
Douglas	GP-15

Hicap #

Latitude / Longitude (see instructions)

N

Format Code

DD

Method Code

- GPS008
 SCR002
 OTH001

W

DDM

E

1/4 / 1/4
or Gov't Lot #

Section

Township

N

W

2. Facility / Owner Information

Facility Name

Moose Junction Lounge

Facility ID (FID or PWS)

License/Permit/Monitoring #

03-16-000301

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

13195 S. State 35

City of Present Owner

Dairyland

State

WI

ZIP Code

54380

3. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?

- Yes No N/A

Liner(s) removed?

- Yes No N/A

Liner(s) perforated?

- Yes No N/A

Screen removed?

- Yes No N/A

Casing left in place?

- Yes No N/A

Was casing cut off below surface?

- Yes No N/A

Did sealing material rise to surface?

- Yes No N/A

Did material settle after 24 hours?

- Yes No N/A

If yes, was hole retapped?

- Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source?

- Yes No N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials

Neat Cement Grout

Concrete

Sand-Cement (Concrete) Grout

Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips

Bentonite - Cement Grout

Granular Bentonite

Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12'	1/3	

3/8" bentonite Chips

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other: _____

- Remediation/Redevelopment

1. Well Location Information

County: Douglas WI Unique Well # of Removed Well: GP-16

Latitude / Longitude (see instructions)

N

W

1/4 / 1/4
or Gov't Lot #

Format Code: DD

Method Code: GPS008

SCR002

OTH001

DDM

Section: Township: N

Range: E
W

Well Street Address: 13195 S. State 35

Well City, Village or Town: Dairyland

Well ZIP Code: 54380

Subdivision Name: _____

Lot #: _____

Reason for Removal from Service: WI Unique Well # of Replacement Well

Temporary Borehole

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well

Original Construction Date (mm/dd/yyyy):

11/28/17

Water Well

If a Well Construction Report is available, please attach.

Borehole / Drillhole

Construction Type:

Drilled

Driven (Sandpoint)

Dug

Other (specify): Hydraulic/Direct Push

Formation Type:

Unconsolidated Formation

Bedrock

Total Well Depth From Ground Surface (ft.):

Casing Diameter (in.):

12'

2.25"

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

Was well annular space grouted?

Yes

No

Unknown

If yes, to what depth (feet)?

Depth to Water (feet):

5. Material Used to Fill Well / Drillhole

3/8" bentonite Chips

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12'	1/3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Geiss Soil & Sample , REI Engineering

License #:

Date of Filling & Sealing or Verification (mm/dd/yyyy): 11/28/17

Street or Route: 4080 N. 20th Avenue

Telephone Number: (715) 675-9784

City: Wausau

State: WI

ZIP Code: 54401

Signature of Person Doing Work: *[Signature]*

Date Signed: 2-26-18

DNR Use Only

Noted By

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	GP-17	

Latitude / Longitude (see instructions)	Format Code	Method Code
N	<input type="checkbox"/> DD	<input type="checkbox"/> GPS008
W	<input type="checkbox"/> DDM	<input type="checkbox"/> SCR002
		<input type="checkbox"/> OTH001

1/4 / 1/4	1/4	Section	Township	Range	E
			N		W

or Gov't Lot #					
----------------	--	--	--	--	--

Well Street Address	13195 S. State 35
---------------------	-------------------

Well City, Village or Town	Well ZIP Code
Dairyland	54380

Subdivision Name	Lot #
------------------	-------

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	-----

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	11/28/17

<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
--	--

Construction Type:	<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
--------------------	---

<input checked="" type="checkbox"/> Other (specify): Hydraulic/Direct Push	
--	--

Formation Type:	<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock
-----------------	---

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10'	2.25"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
--------------------------------	--------------------

Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
---------------------------------	---

If yes, to what depth (feet)?	Depth to Water (feet)
-------------------------------	-----------------------

5. Material Used to Fill Well / Drillhole	
---	--

3/8" bentonite Chips	
----------------------	--

2. Facility / Owner Information

Facility Name	Moose Junction Lounge
---------------	-----------------------

Facility ID (FID or PWS)	
--------------------------	--

License/Permit/Monitoring #	03-16-000301
-----------------------------	--------------

Original Well Owner	
---------------------	--

Present Well Owner	
--------------------	--

Mailing Address of Present Owner	13195 S. State 35
----------------------------------	-------------------

City of Present Owner	State	ZIP Code
Dairyland	WI	54380

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
--------------------------	--

Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
-------------------	--

Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
----------------------	--

Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
-----------------	--

Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
-----------------------	--

Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
---------------------------------------	--

Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
-------------------------------------	--

If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
----------------------------	--

If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
---	--

Required Method of Placing Sealing Material

<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____

Sealing Materials

<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10'	1/4	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight

6. Comments

7. Supervision of Work	DNR Use Only		
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received
Geiss Soil & Sample , REI Engineering		11/28/17	Noted By

Street or Route	Telephone Number	Comments
4080 N. 20th Avenue	(715) 675-9784	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	<i>[Signature]</i>	2-26-18

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	GP-18	

Latitude / Longitude (see instructions)

N DD
W DDM

1/4 / 1/4
or Gov't Lot #

Format Code

GPS008
 SCR002
 OTH001

Method Code

E
 W

Section Township N

Range W

Well Street Address

13195 S. State 35

Well City, Village or Town

Dairyland

Subdivision Name

Well ZIP Code

54380

Lot #

Reason for Removal from Service

Temporary Borehole

Monitoring Well

Water Well

Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)

11/28/17

If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): Hydraulic/Direct Push

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)

12'

Casing Diameter (in.)

2.25"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted?

Yes No Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

3/8" bentonite Chips

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well
Douglas	GP-19

Hicap #

Latitude / Longitude (see instructions)

N

Format Code

DD
 DDM

Method Code

GPS008
 SCR002
 OTH001

1/4 / 1/4
or Gov't Lot #

W

Section
N

Township
E

Range
W

Well Street Address
13195 S. State 35

Well City, Village or Town
Dairyland

Well ZIP Code

54380

Subdivision Name

Lot #

Reason for Removal from Service
Temporary Borehole

WI Unique Well # of Replacement Well

- Monitoring Well
 Water Well
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)

11/28/17

If a Well Construction Report is available,
please attach.

Construction Type.

- Drilled Driven (Sandpoint) Dug
 Other (specify): Hydraulic/Direct Push

Formation Type:

- Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)

9'

Casing Diameter (in.)

2.25"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted?

- Yes No Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

3/8" bentonite Chips

Required Method of Placing Sealing Material

- Conductor Pipe-Gravity Conductor Pipe-Pumped

- Screened & Poured Other (Explain): _____

Sealing Materials

- Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

- Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	9'	1/4	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Geiss Soil & Sample , REI Engineering

License #

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 11/28/17

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments

DNR Use Only

Date Received

Noted By

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work
ber larsen

Date Signed
2-26-18

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Douglas	GP-20	

Latitude / Longitude (see instructions)		Format Code	Method Code
		N <input type="checkbox"/> DD	GPS008
		W <input type="checkbox"/> DDM	SCR002
			OTH001

1/4 / 1/4	1/4	Section	Township	Range <input type="checkbox"/> E
or Gov't Lot #				N <input type="checkbox"/> W

Well Street Address		Well ZIP Code
13195 S. State 35		54380

Well City, Village or Town	Well ZIP Code
Dairyland	54380
Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy)
<input type="checkbox"/> Water Well	11/28/17
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type.	<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug
<input checked="" type="checkbox"/> Other (specify): Hydraulic/Direct Push	

Formation Type:	<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock
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Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12'	2.25"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
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Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
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If yes, to what depth (feet)?	Depth to Water (feet)
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5. Material Used to Fill Well / Drillhole	
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3/8" bentonite Chips	
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2. Facility / Owner Information

Facility Name	Moose Junction Lounge
Facility ID (FID or PWS)	

License/Permit/Monitoring #	
03-16-000301	

Original Well Owner	
Present Well Owner	

Mailing Address of Present Owner	13195 S. State 35
City of Present Owner	Dairyland

State	WI
ZIP Code	54380

4. Pump, Liner, Screen, Casing & Sealing Material	
---	--

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
--------------------------	--

Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
-------------------	--

Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
-----------------	--

Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
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Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
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If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
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If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
---	--

Required Method of Placing Sealing Material	
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<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured	<input type="checkbox"/> Other (Explain): _____

<input checked="" type="checkbox"/> (Bentonite Chips)	
---	--

Sealing Materials	
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<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips

<input type="checkbox"/> Granular Bentonite	
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For Monitoring Wells and Monitoring Well Boreholes Only:	
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<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Benlonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
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Surface	12'	1/3	
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Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County Douglas	WI Unique Well # of Removed Well GP-21	Hicap #
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Latitude / Longitude (see instructions)	Format Code N	Method Code GPS008
	W	SCR002
1/4 / 1/4 or Gov't Lot #	DDM	OTH001
Section	Township	Range E N W

Well Street Address
13195 S. State 35

Well City, Village or Town Dairyland	Well ZIP Code 54380
---	------------------------

Subdivision Name	Lot #
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Reason for Removal from Service Temporary Borehole	WI Unique Well # of Replacement Well
---	--------------------------------------

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 11/28/17
If a Well Construction Report is available, please attach.	

Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input checked="" type="checkbox"/> Other (specify): Hydraulic/Direct Push	<input type="checkbox"/> Dug
---	------------------------------

Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
---	----------------------------------

Total Well Depth From Ground Surface (ft.) 12'	Casing Diameter (in.) 2.25"
---	--------------------------------

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
--------------------------------	--------------------

Was well annular space grouted?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
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If yes, to what depth (feet)?	Depth to Water (feet)
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5. Material Used to Fill Well / Drillhole		
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3/8" bentonite Chips

2. Facility / Owner Information

Facility Name Moose Junction Lounge		
Facility ID (FID or PWS)		
License/Permit/Monitoring # 03-16-000301		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner 13195 S. State 35		
City of Present Owner Dairyland	State WI	ZIP Code 54380

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A

Required Method of Placing Sealing Material

<input type="checkbox"/> Conductor Pipe-Gravity <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Other (Explain): _____
---	---

Sealing Materials

<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips
---	--

For Monitoring Wells and Monitoring Well Boreholes Only:

<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry
---	---

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12'	1/3	

6. Comments

7. Supervision of Work				DNR Use Only
Name of Person or Firm Doing Filling & Sealing Geiss Soil & Sample , REI Engineering	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 11/28/17	Date Received	Noted By
Street or Route 4080 N. 20th Avenue	Telephone Number (715) 675-9784		Comments	
City Wausau	State WI	ZIP Code 54401	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 2-26-18

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water
 Waste Management

- Watershed/Wastewater
 Other:

- Remediation/Redevelopment

1. Well Location Information

County
Douglas

WI Unique Well # of
Removed Well
GP-22

Hicap #

Latitude / Longitude (see instructions)

N

Formal Code

DD

Method Code

- GPS008
 SCR002
 OTH001

1/4 / 1/4
or Gov't Lot #

1/4

Section

Township

Range

E

N

W

W

Well Street Address

13195 S. State 35

Well City, Village or Town

Dairyland

Well ZIP Code

54380

Subdivision Name

Lot #

Reason for Removal from Service

WI Unique Well # of Replacement Well

Temporary Borehole

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well

Original Construction Date (mm/dd/yyyy)

11/28/17

Water Well

If a Well Construction Report is available,
please attach.

Borehole / Drillhole

Construction Type:

Drilled

Driven (Sandpoint)

Dug

Other (specify): Hydraulic/Direct Push

Formation Type:

Unconsolidated Formation

Bedrock

Total Well Depth From Ground Surface (ft.)

Casing Diameter (in.)

12'

2.25"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted?

Yes

No

Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

5. Material Used to Fill Well / Drillhole

3/8" bentonite Chips

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	12'	1/3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing
Geiss Soil & Sample , REI Engineering

License #

Date of Filling & Sealing or Verification
(mm/dd/yyyy) 11/28/17

DNR Use Only

Date Received

Noted By

Street or Route
4080 N. 20th Avenue

Telephone Number
(715) 675-9784

Comments

City
Wausau

State
WI

ZIP Code
54401

Signature of Person Doing Work
Ron Lauer

Date Signed
2-26-18

APPENDIX B

METHODS AND PROCEDURES



METHODS AND PROCEDURES

FOR

GEOPROBE SOIL SAMPLING

The Geoprobe unit hydraulically advances threaded, two-inch diameter, four-foot long, steel rod sections into the subsurface. A four-foot sampler, consisting of a drive shoe, a steel tube with a clean acetate liner, and a drive-head retractable piston, is attached to the leading Geoprobe rod. The sampler is driven down to the top of the interval to be sampled. The stop-pin is removed to release the drive head piston, which retracts as the sampler is advanced. When the sampler has been advanced four feet, the rods are retracted from the hole and the soil in the acetate liner is recovered. The acetate liner is split open and the soil is visually and manually classified by the field geologist/technician in accordance with **ASTM:D2488-84**. Logs of the borings are filled out indicating the depth and identification of the various strata, water level information, and pertinent information regarding the method of maintaining and advancing the borings.

Immediately after identification, the soil is quickly divided into two portions. One portion is prepared for potential laboratory analysis. The other portion is placed into a clean one-quart Ziploc bag for field screening. See the section “Soil Headspace Analysis” for field screening procedures.

HEADSPACE ANALYSIS

The soils were screened with a Mini-RAE photoionization detector (PID) equipped with an 10.6 eV lamp. The detector was calibrated in instrument units for Total Organic Vapors using an isobutylene standard. The soil sample, sealed in a Ziploc bag, was shaken vigorously to promote volatilization of the contaminant into the headspace of the bag. The sample was allowed to rest for at least ten minutes and then shaken again before screening. When ambient temperatures were below 60 degrees F, soil samples were allowed to warm for a minimum of 10 minutes in a heated environment prior to headspace development. The Ziploc bag was punctured with the PID probe and the resulting meter reading was recorded.

SAMPLING AND CHAIN OF CUSTODY

Soil samples for laboratory analysis were collected into laboratory prepared vials. Each vial was labeled and placed directly into a cooler pending delivery to the laboratory. Latex gloves were worn during all sample collection procedures.

An entry on a Chain of Custody log was completed as each sample was collected. The Chain of Custody included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples. The Chain of Custody log was sent to the laboratory with each cooler of samples.

DECONTAMINATION

Sampling equipment was decontaminated prior to sampling. Steel rod sections were washed after every sample collected.

METHODS AND PROCEDURES FOR GEOPROBE WATER SAMPLING

GROUNDWATER PROFILER

The Geoprobe rods are connected to a covered stainless steel, 2-foot screen and driven to the appropriate depth. Internal rods are inserted in the hollow rods, and the cover is unscrewed and released, exposing the screen.

PURGING, SAMPLING AND CHAIN OF CUSTODY

Disposable ¼" polyethylene tubing is inserted to the screen and connected to a peristaltic pump. The water is pumped slowly until sediment free. Purge water is containerized for proper disposal. Water samples are collected directly from the tubing. If the well is purged dry, it is allowed to recharge and then sampled. Samples are labeled and placed in a cooler to be preserved at approximately 4 degrees C. Samples are accompanied by Chain of Custody records.

Upon completion of a sample, a chain of custody log is initiated. The chain of custody record includes the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handle the samples.

DECONTAMINATION

Sampling equipment is decontaminated prior to sampling. The Geoprobe rods and screen are washed between holes using distilled water and Alconox cleaning detergent. Latex gloves are worn during all sample collection procedures and are changed between the collection of each of the water samples from each monitoring well.

METHODS AND PROCEDURES

FOR

SOIL SAMPLING USING HOLLOW STEM AUGERS

Soil sampling was done in accordance with **ASTM:D1586-84**. Using this procedure, a 2 inch **OD**, 2 foot long split barrel sampler was driven into the soil by a 140 pound weight falling 30 inches. After an initial set of 6 inches, the number of blows required to drive the sampler an additional 12 inches is known as the penetration resistance or N value. The N value is an index of the relative density of cohesionless soils and the consistency of cohesive soils.

As the samples were obtained in the field, they were visually and manually classified by the field geologist/technician in accordance with **ASTM:D2488-84**. Representative portions of the samples were returned to the laboratory for further examination and for verification of the field classification. Logs of the borings were filled out indicating the depth and identification of the various strata, the N value, water level information and pertinent information regarding the method of maintaining and advancing the borings.

Soil samples recovered by the split spoon were divided into two portions. One portion was prepared for laboratory analysis. The other portion was placed into a clean one quart Ziploc bag. A headspace analysis was then conducted on this latter portion.

HEADSPACE ANALYSIS

The soils were scanned with a RAE photoionization detector equipped with a 10.6 eV lamp and calibrated for direct reading in units of Total Organic Vapors using an isobutylene standard. A Ziploc bag was filled two-thirds of the volume with the sample. The bags were sealed and shaken vigorously before headspace development. Headspace development is allowing the sample to rest for at least ten minutes before scanning. When ambient temperatures were below 60 degrees F, soil samples were allowed to warm for a minimum of 10 minutes in a heated environment prior to headspace development. The Ziploc bag was punctured with the probe and a reading was taken.

SAMPLING AND CHAIN OF CUSTODY

Soil samples were collected from a spilt barrel sampler and placed in laboratory prepared glass vials and placed directly into a cooler pending delivery to the laboratory. Latex gloves were worn during all sample collection procedures.

Upon completion of a sample, a chain of custody log was initiated. The chain of custody record included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples.

SURVEYING

Grade elevations of borings were surveyed to the nearest 0.1 foot and were tied to a USGS benchmark.

DECONTAMINATION

Sampling equipment were decontaminated prior to sampling. Augers were steam cleaned on plastic and split spoons were cleaned after every sample taken.

METHODS AND PROCEDURES
FOR
MONITORING WELL INSTALLATION AND GROUNDWATER
SAMPLING

The water table monitoring wells consist of pipe joint threaded, two inch by ten feet long schedule 40 PVC (#10 slot) with 2 inch schedule 40 PVC riser. After the screen and riser pipe were set, a sand filter pack was placed around the screen to a depth 3 feet above the top of the screen, capped by a 2 foot fine sand layer, covered with a bentonite seal, annular space seal and surface seal. A protective casing did enclose the PVC riser pipe.

Monitoring wells were installed in accordance with Wisconsin Administrative Code NR 141 regulations. The WDNR "Monitoring Well Construction Form 4400-113A" were completed in accordance with NR 144 and NR 147.

The wells were developed by bailing or pumping to establish a reliable intercept with the surrounding formation. At least ten well volumes were removed or bailed until the wells were sediment free. If the well was bailed dry, a minimum of 3 volumes were taken. The WDNR "Monitoring Well Development Form 4400-113B" was completed for each well.

WATER LEVEL

Groundwater level measurements were obtained by using an electronic measuring device which indicated when a probe is in contact by lowering the probe into the well until the instrument indicated that the water surface has been encountered, and the distance from the top of the well to the probe was measured. All measurements were reported to the nearest 0.01 foot.

SAMPLING AND CHAIN OF CUSTODY

Water samples were collected using disposable bottom loading plastic bailers. Prior to sampling, the wells were purged. At least 4 well volumes were removed before sampling to ensure collection of a representative sample. If the well was purged dry, it was allowed to recharge and then it was sampled.

Samples were taken from the middle section of the bailer and placed in laboratory prepared bottles. Samples were labeled and placed in a cooler to be preserved at approximately 4 degrees C. Samples were accompanied by Chain of Custody records.

Upon completion of a sample, a chain of custody log was initiated. The chain of custody record included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples.

SURVEYING

Grade elevations of monitoring wells were surveyed to the nearest 0.1 foot and top of riser elevations were surveyed to the nearest 0.01 for monitoring wells. Elevations were tied to a USGS benchmark.

DECONTAMINATION

Sampling equipment was decontaminated prior to sampling. The water level measuring device was washed before it was placed into each well using distilled water and Alconox cleaning detergent. Latex gloves were worn during all sample collection procedures and were changed between the collection of each of the water samples from each monitoring well.

APPENDIX C

SOIL DISPOSAL DOCUMENTATION



LINCOLN COUNTY LANDFILL 715-536-9636

Site: N4750 Landfill Lane, Merrill, WI 54452
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452
OPERATING HOURS:
Monday-Friday
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm
1st and 3rd Sat. 8:00 am - Noon

DATE: 12/5/2017 TICKET #: 240287 Vehicle #:
Time In: 11:09 AM Time Out: 11:09 AM

BILL TO: R.E.I.
HAULER : R.E.I.

JOB : 17 -41 B - Moose Junction Lounge, Dairyland
PO# : REI job #6510axuc
PEFC/ DRUMS (PECFA) 1 un
Gross: 1 Tare: 0 Net Weight: 1

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature _____
Weighed By: Administrator _____

I certify that the waste in this vehicle complies with the Wisconsin Recycling
law and the landfill bans. I also agree to pay 1.5% per month Late payment
charge after 30 days.

LINCOLN COUNTY LANDFILL 715-536-9636

Site: N4750 Landfill Lane, Merrill, WI 54452

Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

OPERATING HOURS:

Monday-Friday

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 6/19/2017
Time In: 02:51 PM

TICKET #: 231564 Vehicle #:
Time Out: 03:04 PM

BILL TO: R.E.I.
HAULER : R.E.I.

JOB : 17 - 41 B - Moose Junction Lounge, Dairyland
PO# : REI job #6510axuc

\$23.00 ton exempt (CON31) 0.56 tn
Gross: 13500 Tare: 12380 Net Weight: 1120

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature _____
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

APPENDIX D

MW9 SOIL BORING LOG, WELL CONSTRUCTION AND WELL DEVELOPMENT FORMS



Route To: Watershed/Wastewater Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction				License/Permit/Monitoring Number				Boring Number MW8																																																																																																				
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering				Date Drilling Started 6/13/2017		Date Drilling Completed 6/13/2017		Drilling Method Geoprobe																																																																																																				
WI Unique Well No.		DNR Well ID No.		Common Well Name		Final Static Water Level		Surface Elevation 0		Borehole Diameter 2.25 in	V9																																																																																																	
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW9 State Plane				Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>																																																																																																				
Facility ID			County Douglas		County Code 16		Civil Town/City/or Village Dairyland																																																																																																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Sample</th> <th colspan="6">Soil/ Rock Description And Geologic Origin For Each Major Unit</th> <th colspan="4">Soil Properties</th> <th rowspan="2">RQD/ Comments</th> </tr> <tr> <th>Number</th> <th>Type</th> <th>Length Att & Recovered (in)</th> <th>Blow Counts</th> <th>Depth In Feet</th> <th>U.S.C.S.</th> <th>Graphic</th> <th>Well</th> <th>PID/FID</th> <th>Compressive Strength</th> <th>Moisture Content</th> <th>Liquid Limit</th> <th>Plasticity Index</th> <th>P 200</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0</td> <td></td> <td></td> <td>No recovery</td> <td></td> <td></td> <td></td> <td></td> <td>M</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>36</td> <td></td> <td></td> <td>Saturated gray silt w/ trace sand</td> <td>SM</td> <td></td> <td></td> <td>0.8</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>SS</td> <td>60</td> <td></td> <td>Black fine grained sand over gray black silt</td> <td>SM</td> <td></td> <td></td> <td>7.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Medium brown fine grained sand and silt</td> <td>SM</td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Well set @ 14' Drilled to 15', well set @ 14'</td> <td></td> <td></td> <td></td> <td>0.0</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>												Sample		Soil/ Rock Description And Geologic Origin For Each Major Unit						Soil Properties				RQD/ Comments	Number	Type	Length Att & Recovered (in)	Blow Counts	Depth In Feet	U.S.C.S.	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	1	0			No recovery					M					2	36			Saturated gray silt w/ trace sand	SM			0.8						3	SS	60		Black fine grained sand over gray black silt	SM			7.6										Medium brown fine grained sand and silt	SM			0.0										Well set @ 14' Drilled to 15', well set @ 14'				0.0					
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I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in 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 instructions for more information, including where the completed form should be sent.

Route To Solid Haste Haz. Haste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name Moose Junction	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW9
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input type="checkbox"/> E	Date Well Installed 6/13/17
Distance Well Is From Waste/Source Boundary Ft.	1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ W	Well Installed By (Person's Name and Firm) Gestra - Mitch Panfil
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS Classification of soil near screen:

GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

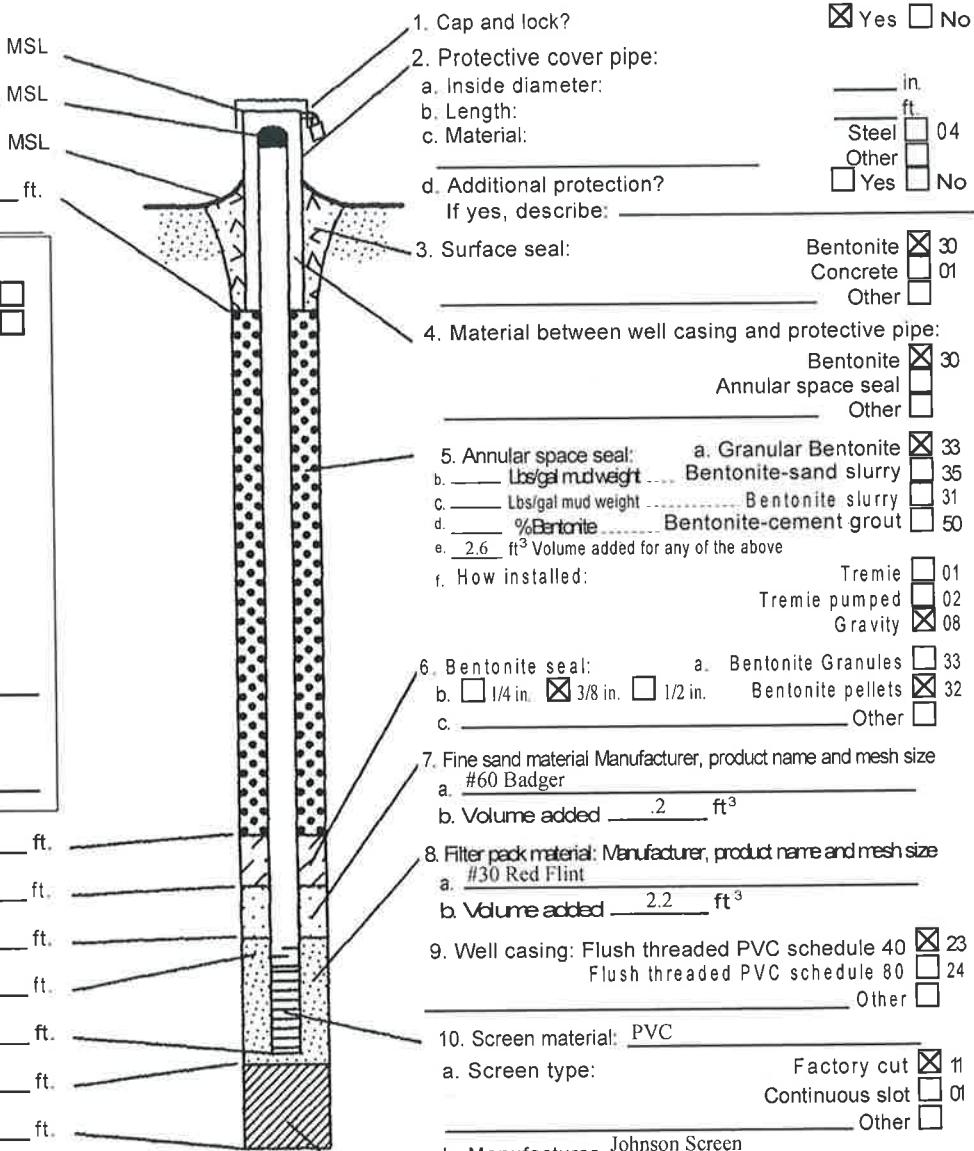
14. Drilling method used
Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis):

- E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 3 ft.
H. Screen joint, top _____ ft. MSL or 4 ft.
I. Well bottom _____ ft. MSL or 14 ft.
J. Filter pack, bottom _____ ft. MSL or 15 ft.
K. Borehole, bottom _____ ft. MSL or 15 ft.
L. Borehole, diameter 2 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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

Route To: Solid Waste Haz. Waste Wastewater
 Env. Response & Repair Underground Tanks Other

Facility/Project Name Moose Junction Lounge	County Name Douglas	Well Name MW9
Facility Licence, Permit or Monitoring Number	County Code 16	Wis. Unique Well Number

1. Can this well be purged dry?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Before Development		After Development	
2. Well development method					
surged with bailer and bailed	<input type="checkbox"/> 41	11. Depth to Water (from top of well casing)	a. 0.91 ft.	9.57 ft.	
surged with bailer and pumped	<input checked="" type="checkbox"/> 61	Data mm/dd/yy	b. 7/7/17	7/7/17	
surged with block and bailed	<input type="checkbox"/> 42	Time	c. 10:32 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.	11:00	<input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.
surged with block and pumped	<input type="checkbox"/> 62				
surged with block, bailed and pumped	<input type="checkbox"/> 70	12. Sediment in well bottom	inches	0 inches	
compressed air	<input type="checkbox"/> 20				
bailed only	<input type="checkbox"/> 10	13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	
pumped only	<input type="checkbox"/> 51			Clear at 30 gallons	
pumped slowly	<input type="checkbox"/> 50				
Other _____	<input type="checkbox"/>				
3. Time spent developing well	28 min.				
4. Depth of well (from top of Casing)	13.82 ft.				
5. Inside diameter of well	2.07 in.				
6. Volume of water in filter pack and well casing	12.26 gal.	Fill in if drilling fluids were used and well is at solid waste facility:			
7. Volume of water removed from well	42 gal.	14. Total suspended solids	mg/l	mg/l	mg/l
8. Volume of water added (If any)	gal.	15. COD	mg/l	mg/l	mg/l
9. Source of water added _____					
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input type="checkbox"/> No				

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.

4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

APPENDIX E

SOIL AND GROUNDWATER LABORATORY REPORTS



Route To: Watershed/Wastewater Remediation/Redevelopment Other

Page 1 of 1

Facility/Project Name Moose Junction			License/Permit/Monitoring Number			Boring Number MW8							
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil - Gestra Engineering			Date Drilling Started 6/13/2017		Date Drilling Completed 6/13/2017		Drilling Method Geoprobe						
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level		Surface Elevation 0	Borehole Diameter 2.25 in	V9						
Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW9 State Plane			Lat Long		Local Grid Location N <input type="checkbox"/> S <input type="checkbox"/>		E <input type="checkbox"/> W <input type="checkbox"/>						
Facility ID		County Douglas		County Code 16		Civil Town/City/or Village Dairyland							
Sample		Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit		U.S.C.S.	Graphic	Well	Soil Properties				RQD/ Comments
Number	Type			Length Att & Recovered (in)	Compressive Strength				Moisture Content	Liquid Limit	Plasticity Index	P 200	
1	0		No recovery						M				
2	36		Saturated gray silt w/ trace sand	SM					0.8				
3	SS 60		Black fine grained sand over gray black silt	SM					7.6				
			Medium brown fine grained sand and silt	SM					0.0				
			Well set @ 14' Drilled to 15', well set @ 14'						0.0				
			15										
			16										

I hereby certify that the information on this form is true and the correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in 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 instructions for more information, including where the completed form should be sent.

Route To Solid Haste Haz. Haste Wastewater
Env. Response & Repair Underground Tanks Other

Facility/Project Name Moose Junction	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW9
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input type="checkbox"/> E	Date Well Installed 6/13/17
Distance Well Is From Waste/Source Boundary Ft.	1/4 of _____ 1/4 of Sec. _____, T. _____ N; R. _____ W	Well Installed By (Person's Name and Firm) Gestra - Mitch Panfil
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

- A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS Classification of soil near screen:

GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis attached? Yes No

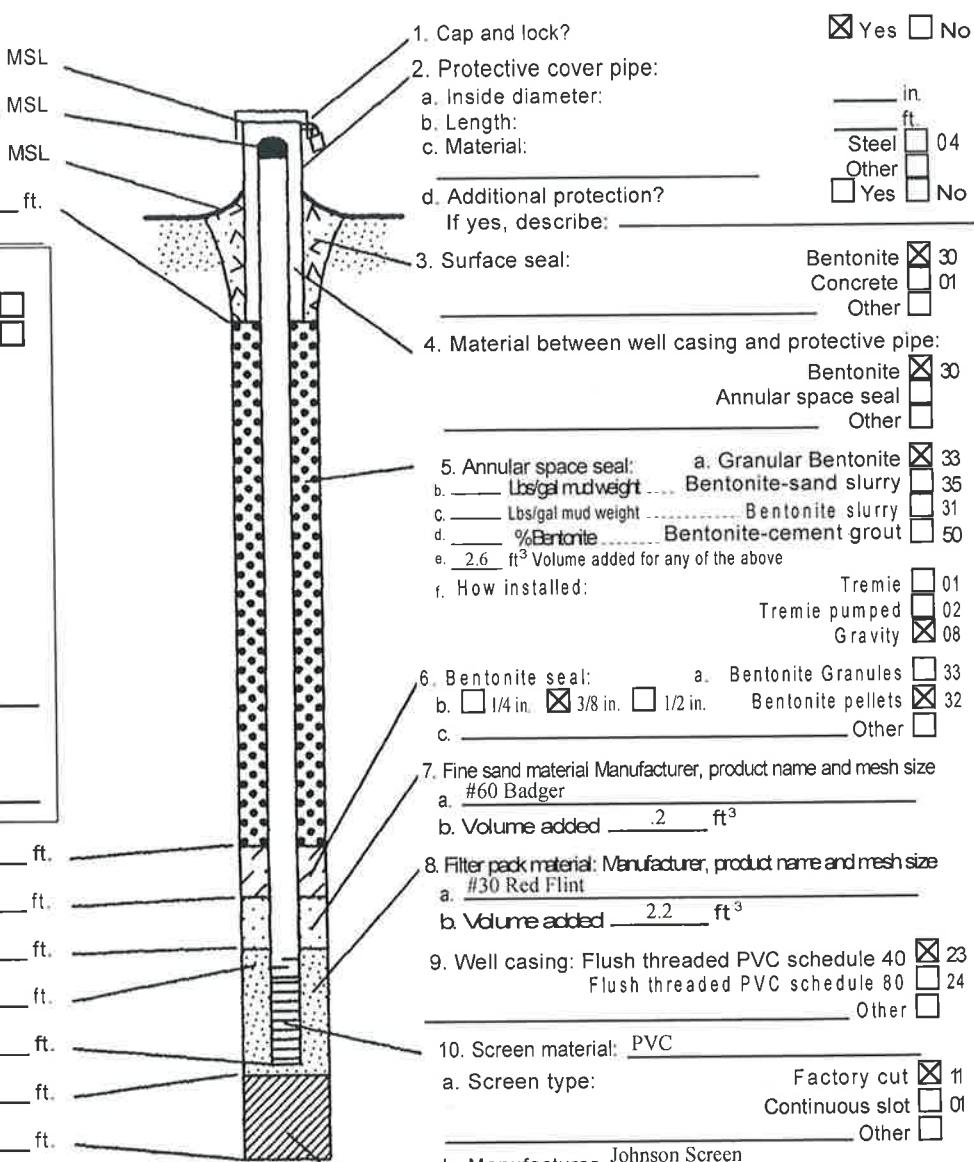
14. Drilling method used
Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No
Describe _____

17. Source of water (attach analysis):

- E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 3 ft.
H. Screen joint, top _____ ft. MSL or 4 ft.
I. Well bottom _____ ft. MSL or 14 ft.
J. Filter pack, bottom _____ ft. MSL or 15 ft.
K. Borehole, bottom _____ ft. MSL or 15 ft.
L. Borehole, diameter 2 in.
M. O.D. well casing 2.38 in.
N. I.D. well casing 2.07 in.



I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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

Route To: Solid Waste Haz. Waste Wastewater
 Env. Response & Repair Underground Tanks Other

Facility/Project Name Moose Junction Lounge	County Name Douglas	Well Name MW9
Facility Licence, Permit or Monitoring Number	County Code 16	Wis. Unique Well Number

1. Can this well be purged dry?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Before Development		After Development	
2. Well development method					
surged with bailer and bailed	<input type="checkbox"/> 41	11. Depth to Water (from top of well casing)	a. 0.91 ft.	9.57 ft.	
surged with bailer and pumped	<input checked="" type="checkbox"/> 61	Data mm/dd/yy	b. 7/7/17	7/7/17	
surged with block and bailed	<input type="checkbox"/> 42	Time	c. 10:32 <input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.	11:00	<input type="checkbox"/> p.m. <input checked="" type="checkbox"/> a.m.
surged with block and pumped	<input type="checkbox"/> 62				
surged with block, bailed and pumped	<input type="checkbox"/> 70	12. Sediment in well bottom	inches	0 inches	
compressed air	<input type="checkbox"/> 20				
bailed only	<input type="checkbox"/> 10	13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe)	
pumped only	<input type="checkbox"/> 51			Clear at 30 gallons	
pumped slowly	<input type="checkbox"/> 50				
Other _____	<input type="checkbox"/>				
3. Time spent developing well	28	min.			
4. Depth of well (from top of Casing)	13.82	ft.			
5. Inside diameter of well	2.07	in.			
6. Volume of water in filter pack and well casing	12.26	gal.	Fill in if drilling fluids were used and well is at solid waste facility:		
7. Volume of water removed from well	42	gal.			
8. Volume of water added (If any)		gal.	14. Total suspended solids	mg/l	mg/l
9. Source of water added _____			15. COD	mg/l	mg/l
10. Analysis performed on water added? (If yes, attach results)	<input type="checkbox"/> Yes <input type="checkbox"/> No				

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.

4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: 

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.