REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

February 11, 2020

Wisconsin Department of Natural Resources
Attn: Daubchi Vang
1300 W Clairemont Ave.
Eau Claire, WI 54702

Subject:

Update Report
Former Schlinsog Dairy
N7701 Pelsdorf Avenue
Loyal, WI
BRRTS #03-10-554767
PECFA #54446-8368-01

Dear Ms. Vang:

Enclosed please find a copy of the above mentioned Update Report. This report documents the completion of a prior approved scope of services which included a temporary well installation, abandonment of former potables wells PW1 and PW2, four semi-annual rounds of groundwater sampling from select wells and single round of potable well sampling at the Kautzer and Hubing wells.

If you have any questions or comments, please contact our office at (715) 675-9784.

Sincerely,
REI Engineering, Inc.

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

CC: Bratcher Law Office, LLC, Attn: Will Bratcher, PO Box 388, Thorp, WI 54771

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Update Report
Former Schlinsog Dairy
N7701 Pelsdorf Avenue
Loyal, WI 54446

BRRTS #03-10-554767
PECFA #54446-8368-01
REI Project #5357

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

FORMER SCHLINSOG DAIRY
N7701 PELSDORF AVENUE
LOYAL, WI 54446

BRRTS#03-10-554767
PECFA#54446-8368-01
REI #5357

PREPARED FOR:

Bratcher Law Office, LLC
Will Bratcher
PO Box 388
Thorp, WI 54771

FEBRUARY 2020

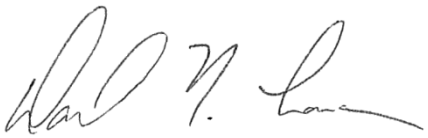
UPDATE REPORT

FORMER SCHLINSOG DAIRY
N7701 PELSDORF AVENUE
LOYAL, WI 54446

BRRTS#03-10-554767
PECFA#54446-8368-01
REI #5357

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

""I, David N. Larsen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of Ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of Ch. GHSS 3, Wis. Admn. Code, and that to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.''



Hydrogeologist — February 10, 2020 Date

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

Environmental Scientist — February 10, 2020 Date

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UPDATE REPORT

FORMER SCHLINSOG DAIRY
N7701 PELSDORF AVENUE
LOYAL, WI 54446

BRRTS#03-10-554767
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REI #5357

1.0 WORK PERFORMED THIS PERIOD

REI is submitting an Update Report covering the site activities that have taken place at the above referenced location. Events that have taken place during this period include temporary well installation and sampling, four (4) groundwater sampling events at select environmental monitoring wells, abandonment of former potable wells PW1 and PW2 and sampling of the on-site potable and neighboring potable water supply wells. The location of the site is shown on Figure 1. The location of the monitoring wells are presented in Figure 2.

2.0 SUMMARY OF WORK

The Former Schlinsog Dairy site is located at the intersection of Mann Road and Pelsdorf Avenue in the SE¼ of the SE ¼ of Section 27, Township 26 North, Range 01 West, Town of Loyal, Clark County, Wisconsin (Figure 1). Site investigation activities began in 2010, a remedial excavation was completed in May 2011 and the engineered remedial system (groundwater pump and treat) was started in August 2013. The system operated until November 2013 when it was retrofitted and operated as a soil vapor extraction system until August 2014. Prior to system operation free product was observed in PW1 and MW2. Figure 2 presents the locations of the monitoring well network and site boundaries.

2.1 Temporary Well Installation and Groundwater Sampling

On October 16, 2017, REI was on site to oversee the installation of two (2) off-site temporary monitoring wells. Geiss Soil and Samples, LLC., Merrill, WI was subcontracted to complete the installation of the temporary monitoring wells. TW1 was advanced to a depth of forty-eight (48) feet and the well set at a depth of forty-eight (48) feet with a ten (10) foot screen. Drilling was very difficult as the soils were very tight. The second temporary well (TW-ROW) was advanced to a depth of only thirty (30) feet before refusal. The boring for temporary monitoring well TW-ROW was abandoned on October 16, 2017. Soil Boring Log (WDNR Form 4400-122), Monitoring Well Construction Form (WDNR Form 4400-133A) and Borehole Abandonment Form (WDNR Form 3300-005) are included in Appendix A.

2.2 Groundwater Monitoring and Analytical Results

Following the submittal of the 2017 report, four (4) groundwater sampling events (at select wells) was completed by REI personnel on October 16, 2017, April 25, 2018, June 6, 2019 and November 22, 2019. An excess of four (4) well volumes was removed from each well prior to sampling by REI personnel. All purge water waste generated during this scope of services was temporarily stored in 55-gallon WDOT approved drums before final disposal at either the City of Wausau wastewater treatment facility or through a waste disposal contractor. Measurable free product (0.28 feet) was only identified in MW2 on October 16, 2017.

Water elevation measurements from the REI sampling events are presented in Table 1. Water levels have increased significantly since the remedial system was shut down in 2013. Figure 3 presents a groundwater contour map from the data collected on November 22, 2019. Groundwater flow appears to be radially away from MW1. This calculated groundwater flow is not consistent with historical groundwater flow directions and is likely not an accurate depiction of the true flow directions. Groundwater flow has historically been to the south/southwest towards MW6. Groundwater contaminant concentrations in the well network also support the south, southwest flow direction. Groundwater samples were submitted to a state certified

laboratory for analysis. Groundwater analytical results are summarized in Tables 2a-k. The complete laboratory analytical reports are included as Appendix B.

Groundwater sample results document residual groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) for petroleum compounds following the November 22, 2019 sample event at MW1 and MW2. Preventive Action Limit (PAL) exceedances were not reported in any of the sampled wells and MW3 and MW6 returned results that were either non-detect for all analyzed parameters, or had laboratory qualified detections below the PAL.

2.3 Potable Well Abandonment

Komarek Well Drilling, Ogema, WI was subcontracted to complete the abandonment former potable wells PW1 and PW2. PW1 was a five (5) inch diameter well with a total measured depth of ninety-four (94) feet. PW2 was a six (6) inch diameter well with a total measured depth of one hundred eighty-five (185) feet. Borehole abandonment forms are included in Appendix C.

3.0 Conclusions and Recommendations

The groundwater contaminant concentrations appear to be decreasing and free product has not been reported in any of the monitoring wells after the October 16, 2017 sampling date. Water levels in 2017 were recorded at all time high levels and have remaining high through the November 2019 sampling event.

Due to the presence of pre-remedial free product on the water table at MW2, a significant layer of smear zone contamination likely remained post remediation. The increase in water level elevations has likely put groundwater in contract with the residual smear zone contamination resulting in increased contaminant concentrations in the collected groundwater samples.

While significant groundwater contamination remains in place at MW1 and MW2, contaminant concentrations at MW3 and MW6 have decreased following site remediation. The degree and extent of the groundwater contaminant plume have

been adequately defined. The 2011 soil excavation had removed any direct contact soil contamination from the subject property. A replacement potable well (PW3) was installed in 2010 to service the Kautzer residence. The neighboring Hubing potable, which had a history of low-level detections for benzene and 1,2-DCA, has a reverse osmosis water treatment system installed. The threat to human health and the environment has been adequately addressed and REI is recommending that this investigation be reviewed for case closure consideration at this time.

Table 1
Depth to Water and Water Table Elevations
Former Schlinsog Dairy
Loyal, Wisconsin

Depth to Water (feet) below Reference Elevation

Date	MW1	MW2	MW3	MW4	MW5	MW6	PZ1	PZ2	PW1
7/8/2010	49.03	48.98							
8/18/2010	47.82	48.12	47.73						
8/19/2010	47.61	47.83	47.56						
1/3/2011	45.32	46.61		44.37	43.84		64.31		
5/13/2011		45.09*	43.86						
5/31/2011	43.95	45.32*	43.96	43.15	42.75		64.21		45.27
10/7/2011	44.47	45.99*	44.55	43.00	42.65		65.25		46.47*
2/16/2012	45.86	48.8*	45.85	44.20	43.37		66.45		
8/27/2013	48.42	50.05*	47.66	45.99	45.98		67.69		
5/20/2014	46.04	46.66	47.06	45.73	46.04	45.50	64.74	44.81	
8/20/2014	46.24	46.54	46.38	44.87	45.13	45.01	70.70	45.54	
5/5/2016	40.52	40.61	40.73			39.42		40.13	42.39
4/13/2017	35.62	36.74	37.15			35.87		36.78	
10/16/2017	35.88	38.27*	38.13			36.93			
4/25/2018	40.84	40.43	40.40			40.82			
6/6/2019	39.50	41.10	39.65			38.45			
11/22/2019	35.19	37.84	36.70			37.60			

Measuring Point Elevations

Initial Survey (8-18-10)	99.99	100.24	99.26	97.76	100.30		99.98		99.98
Re-survey 5-20-14)						97.86		97.20	

Ground Surface Elevation

Initial Survey (8-18-10)	100.45	100.62	99.60	98.38	101.05		100.61		100.61
Re-survey 5-20-14)						98.17		97.36	

Depth to Water (feet) below Ground Surface

Average	43.73	44.15	43.50	45.09	45.00		66.82		44.46
Maximum	49.49	49.36	48.07	46.61	46.79		71.33		45.90
Minimum	35.65	37.12	37.04	43.62	43.40		64.84		43.02
Range	13.84	12.24	11.03	2.99	3.39		6.49		2.88

Water Level Elevation (feet MSL)

Date	MW1	MW2	MW3	MW4	MW5	MW6	PZ1	PZ2	PW1
7/8/2010	50.96	51.26							
8/18/2010	52.17	52.12	51.53						
8/19/2010	52.38	52.41	51.70						
1/3/2011	54.67	53.63		53.39	56.46		35.67		
5/13/2011		55.15*	55.40						
5/31/2011	56.04	54.92*	55.30	54.61	57.55		35.77		54.71
10/7/2011	55.52	54.25*	54.71	54.76	57.65		34.73		53.51*
2/16/2012	54.13	51.44*	53.41	53.56	56.93		33.53		
8/27/2013	51.57	50.19	51.60	51.77	54.32		32.29		
5/20/2014	53.95	53.58	52.20	52.03	54.26	52.36	35.24	52.39	
8/20/2014	53.75	53.70	52.88	52.89	55.17	52.85	29.28	51.66	99.98
5/5/2016	59.47	59.63	58.53			58.44		57.07	57.59
4/13/2017	64.37	63.50	62.11			61.99		60.42	
10/16/2017	64.11	61.97*	61.13			60.93			
4/25/2018	59.15	59.81	58.86			57.04			
6/6/2019	60.49	59.14	59.61			59.41			
11/22/2019	64.80	62.40	62.56			60.26			

Witness Mark as benchmark (assume 100')
* = Product in well

Table 2a
Summary of Groundwater Analytical Results
MW1
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	7/7/2010	1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/14/2013	8/27/2013	11/20/2013	5/20/2014
VOC Parameters												
Benzene	5	0.5	µg/l	**1,750**	**23,500**	**15,800**	**9,620**	**24,000**	**Initiate groundwater extraction system at PW1**	**18,500**	**Convert remedial system to SVE at MW1 and MW2**	**2,510**
Toluene	800	160	µg/l	**2,040**	**28,800**	**19,500**	**12,200**	**28,000**		**19,200**		**3,010**
Ethylbenzene	700	140	µg/l	*200*	**1,440**	**1,360**	**1,190**	**2,300**		**1,670**		*333*
Xylenes (mixed isomers)	2,000	400	µg/l	*1,001*	**9,730**	**6,320**	**5,690**	**10,000**		**8,120**		**4,110**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 15.2	< 152	< 152	< 47.6	< 18		< 46.4		< 4.8
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*198.3*	**618**	**625**	**1,180**	**1,770**		**1,451**		**1,781**
Naphthalene	100	10	µg/l	< 22.2	< 222	< 222	**262**	**810**		**260**		**431**
1,2-Dibromoethane	0.05	0.005	µg/l	**38.2**	**872**	**672**	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	**204**	**3,210**	< 90	NA	NA		NA		NA
n-Propylbenzene			µg/l	23*	< 202	< 202	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	**13,400**	**8,990**	**1,490**	**7,690**	**2,430**	**5,510**	**999**
Toluene	800	160	µg/l		**15,500**	**13,400**	**2,980**	**13,000**	**7,090**	**7,970**	**6,050**
Ethylbenzene	700	140	µg/l		**1,770**	*597*	*284*	**2,980**	**1,110**	**999**	**1,360**
Xylenes (mixed isomers)	2,000	400	µg/l		**13,110**	**5,720**	*1,813*	**12,000**	**6,030**	**8,600**	**5,880**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 60.6	< 34.8	< 8.7	< 17.4	< 17.4	<125	<125
Trimethylbenzenes (mixed isomers)	480	96	µg/l		**2,851**	**1,304**	*286.3*	**2,435**	**1,125**	**2,465**	**1,148**
Naphthalene	100	10	µg/l		**491**	< 500	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l		NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l		NA	**746**	**136**	**401**	**190**	**384**	**88.3**[J]
n-Propylbenzene			µg/l		NA	NA	NA	NA	NA	NA	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2b
Summary of Groundwater Analytical Results
MW2
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	7/7/2010	1/3/2011**	5/31/2011**	10/7/2011**	2/16/2012**	8/14/2013	8/27/2013**	11/20/2013	5/20/2014
VOC Parameters												
Benzene	5	0.5	µg/l	**1,650**	**Free**	**11,500**	**11,700**	**12,000**	**Initiate groundwater extraction system at PW1**	**6,820**	**Convert remedial system to SVE at MW1 and MW2**	**2,620**
Toluene	800	160	µg/l	**1,430**	**Product**	**22,700**	**20,600**	**21,000**		**9,830**		**5,140**
Ethylbenzene	700	140	µg/l	*158*		**2,650**	**2,770**	**3,000**		**2,270**		**769**
Xylenes (mixed isomers)	2,000	400	µg/l	*805*	**Not**	**12,740**	**12,440**	**14,000**		**10,200**		**7,280**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 6.1	**Sampled**	< 122	< 47.6	< 18		< 18.6		< 48.5
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*139.7*		**2,199**	**2,370**	**2,620**		**2,627**		**2,130**
Naphthalene	100	10	µg/l	*25.7*[J]		**425**[J]	**526**	**920**		**511**		**271**
1,2-Dibromoethane	0.05	0.005	µg/l	**38.2**		**290**	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	**141**		< 72	NA	NA		NA		NA
n-Propylbenzene			µg/l	18.4		236	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	**7,580**	**7,030**	**8,530**	**11,100**	**6,950**	**6,890**	**4,020**
Toluene	800	160	µg/l		**11,700**	**15,100**	**12,200**	**27,600**	**11,500**	**10,500**	**9,960**
Ethylbenzene	700	140	µg/l		**2,140**	**2,550**	**2,720**	**3,230**	**2,990**	**3,140**	**2,830**
Xylenes (mixed isomers)	2,000	400	µg/l		**11,560**	**12,450**	**12,300**	**15,500**	**13,000**	**11,100**	**11,300**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		*30.8*[J]	< 34.8	< 17.4	< 17.4	< 17.4	< 125	< 125
Trimethylbenzenes (mixed isomers)	480	96	µg/l		**3,085**	**1,784**	**2,374**	**2,889**	**3,097**	**2,651**	**2,528**
Naphthalene	100	10	µg/l		**533**	< 500	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l		NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l		NA	**323**	**409**	**420**	**491**	**659**	**332**
n-Propylbenzene			µg/l		NA	NA	NA	NA	NA	NA	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

** = Free product in well - removed prior to sampling

Table 2c
Summary of Groundwater Analytical Results
MW3
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	8/18/2010	1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/14/2013	8/27/2013	11/20/2013	5/20/2014
VOC Parameters												
Benzene	5	0.5	µg/l	**2,310**	**Under 6 feet snow and ice, not sampled**	**86.8**	**125**	**340**	**Initiate groundwater extraction system at PW1**	**512**	**Convert remedial system to SVE at MW1 and MW2**	**2,070**
Toluene	800	160	µg/l	*230*		7.9	31	66		73.9		*407*
Ethylbenzene	700	140	µg/l	*346*		3	72.3	*180*		*358*		*158*
Xylenes (mixed isomers)	2,000	400	µg/l	*748*		50.5	150.3	380		*479*		387.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 6.1		< 0.61	4.2	< 0.23		7.7[J]		4.6[J]
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*401*		22.2	*108.5*	*243*		**605**		*164.1*
Naphthalene	100	10	µg/l	*70.6*		7.7	*23.2*	*53*		**117**		*60.1*
1,2-Dibromoethane	0.05	0.005	µg/l	**8.3[J]**		< 0.56	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	**251**		**14.3**	NA	NA		NA		NA
n-Propylbenzene			µg/l	40.2		1.2	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	**1,230**	*3.8*	**20.4**	**29.2**	*< 0.50*	**571**	< 0.25
Toluene	800	160	µg/l		41.9	4.1	2.3	4.8	< 0.50	12.7	< 0.17
Ethylbenzene	700	140	µg/l		108	35.0	37.4	59.6	< 0.50	30.8	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l		119	67.2	31.1	62.5	2.2[J]	30.9	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 4.8	< 0.35	< 0.35	< 0.35	< 0.17	< 1.2	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l		*100.2*	22.8	23.4	90.8	2.1	14.8	1.9[J]
Naphthalene	100	10	µg/l		*39.9*	7.4[J]	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l		NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l		NA	*3.8*	1.3[J]	< 0.34	< 0.17	**66.8**	< 0.28
n-Propylbenzene			µg/l		NA	NA	NA	NA	NA	NA	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2d
Summary of Groundwater Analytical Results
MW4
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/14/2013	8/27/2013	11/20/2013	5/20/2014
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.41	< 0.41	< 0.39	< 0.25	**Initiate groundwater extraction system at PW1**	< 0.34	**Convert remedial system to SVE at MW1 and MW2**	< 0.40
Toluene	800	160	µg/l	< 0.67	< 0.67	< 0.42	< 0.25		< 0.34		< 0.39
Ethylbenzene	700	140	µg/l	< 0.54	< 0.54	< 0.41	0.37[J]		< 0.34		< 0.39
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.8	< 1.8	< 0.87	0.72[J]		< 0.71		< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.61	< 0.61	< 0.38	< 0.23		< 0.37		< 0.48
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.97	< 0.97	< 0.43	0.87[J]		< 0.36		< 0.42
Naphthalene	100	10	µg/l	< 0.89	< 0.89	< 0.40	3.8		< 0.37		< 0.42
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.56	< 0.56	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	< 0.57	< 0.57	NA	NA		NA		NA
n-Propylbenzene			µg/l	< 0.81	< 0.81	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	< 0.40	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**
Toluene	800	160	µg/l		< 0.39						
Ethylbenzene	700	140	µg/l		< 0.39						
Xylenes (mixed isomers)	2,000	400	µg/l		< 0.80						
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 0.48						
Trimethylbenzenes (mixed isomers)	480	96	µg/l		< 0.42						
Naphthalene	100	10	µg/l		< 0.42						
1,2-Dibromoethane	0.05	0.005	µg/l		NA						
1,2-Dichloroethane	5	0.5	µg/l		NA						
n-Propylbenzene			µg/l		NA						

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2e
Summary of Groundwater Analytical Results
MW5
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/14/2013	8/27/2013	11/20/2013	11/20/2013
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.41	< 0.41	< 0.39	< 0.25	**Initiate groundwater extraction system at PW1**	< 0.34	**Convert remedial system to SVE at MW1 and MW2**	< 0.40
Toluene	800	160	µg/l	< 0.67	< 0.67	< 0.42	< 0.25		< 0.34		< 0.39
Ethylbenzene	700	140	µg/l	< 0.54	< 0.54	< 0.41	< 0.22		< 0.34		< 0.39
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.8	< 1.8	< 0.87	< 0.39		< 0.71		< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.61	< 0.61	< 0.38	< 0.23		< 0.37		< 0.48
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.97	< 0.97	< 0.43	< 0.25		< 0.36		< 0.42
Naphthalene	100	10	µg/l	< 0.89	< 0.89	< 0.40	0.59[J]		< 0.37		< 0.42
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.56	< 0.56	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	< 0.57	< 0.57	NA	NA		NA		NA
n-Propylbenzene			µg/l	< 0.81	< 0.81	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	< 0.40	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**
Toluene	800	160	µg/l		< 0.39						
Ethylbenzene	700	140	µg/l		< 0.39						
Xylenes (mixed isomers)	2,000	400	µg/l		< 0.80						
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 0.48						
Trimethylbenzenes (mixed isomers)	480	96	µg/l		< 0.42						
Naphthalene	100	10	µg/l		< 0.42						
1,2-Dibromoethane	0.05	0.005	µg/l		NA						
1,2-Dichloroethane	5	0.5	µg/l		NA						
n-Propylbenzene			µg/l		NA						

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2f
Summary of Groundwater Analytical Results
MW6
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	11/20/2013	5/20/2014	8/20/2014	8/20/2014	5/5/2016
VOC Parameters								
Benzene	5	0.5	µg/l	**Convert remedial system to SVE at MW1 and MW2**	**4,350**	**Remove SVE system from MW1 and MW2**	**1,510**	**8.9**
Toluene	800	160	µg/l		**3,440**		**2,830**	2.3
Ethylbenzene	700	140	µg/l		**1,510**		**979**	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l		**4,880**		**7,220**	5.2
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 7.0		< 4.4	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l		**1,358**		**903**	5.2
Naphthalene	100	10	µg/l		**265**		NA	3.5[J]
1,2-Dichloroethane	5	0.5	µg/l		**194**		**94.4**	0.36[J]

	ES	PAL	Units	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters								
Benzene	5	0.5	µg/l	**1.8**	*0.80*[J]	< 0.50	**98**	< 0.25
Toluene	800	160	µg/l	< 0.50	< 0.50	< 0.50	7.8	< 0.17
Ethylbenzene	700	140	µg/l	< 0.50	< 0.50	< 0.50	26.7	< 0.22
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.5	< 1.5	< 1.5	19.0	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.17	< 0.17	< 1.2	< 1.2
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.50	< 0.50	9.4	< 0.87
Naphthalene	100	10	µg/l	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.17	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	NA	< 0.17	< 0.17	**8.3**	< 0.28
n-Propylbenzene			µg/l	NA	NA	NA	NA	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2g
Summary of Groundwater Analytical Results
PZ1
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/14/2013	8/27/2013	11/20/2013	5/20/2014
VOC Parameters											
Benzene	5	0.5	µg/l	< 0.41	< 0.41	< 0.39	< 0.25	**Initiate groundwater extraction system at PW1**	< 0.34	**Convert remedial system to SVE at MW1 and MW2**	< 0.40
Toluene	1,000	200	µg/l	< 0.67	< 0.67	< 0.42	< 0.25		< 0.34		< 0.39
Ethylbenzene	700	140	µg/l	< 0.54	< 0.54	< 0.41	< 0.22		< 0.34		< 0.39
Xylenes (mixed isomers)	10,000	1,000	µg/l	< 1.8	< 1.8	< 0.87	< 0.39		< 0.71		< 0.80
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.61	< 0.61	< 0.38	0.38[J]		< 0.37		< 0.48
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.97	< 0.97	< 0.43	< 0.25		< 0.36		< 0.42
Naphthalene	100	10	µg/l	< 0.89	< 0.89	< 0.40	< 0.50		< 0.37		< 0.42
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.56	< 0.56	NA	NA		NA		NA
1,2-Dichloroethane	5	0.5	µg/l	< 0.57	< 0.57	NA	NA		NA		NA
n-Propylbenzene			µg/l	< 0.81	< 0.81	NA	NA		NA		NA

	ES	PAL	Units	8/20/2014	8/20/2014	5/5/2016	4/13/2017	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters											
Benzene	5	0.5	µg/l	**Remove SVE system from MW1 and MW2**	< 0.40	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**
Toluene	800	160	µg/l		< 0.39						
Ethylbenzene	700	140	µg/l		< 0.39						
Xylenes (mixed isomers)	2,000	400	µg/l		< 0.80						
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 0.48						
Trimethylbenzenes (mixed isomers)	480	96	µg/l		< 0.42						
Naphthalene	100	10	µg/l		< 0.42						
1,2-Dibromoethane	0.05	0.005	µg/l		NA						
1,2-Dichloroethane	5	0.5	µg/l		NA						
n-Propylbenzene			µg/l		NA						

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2h
Summary of Groundwater Analytical Results
PZ2
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	11/20/2013	5/20/2014	8/20/2014	8/20/2014	5/5/2016	4/13/2017
VOC Parameters									
Benzene	5	0.5	µg/l	**Convert remedial system to SVE at MW1 and MW2**	**16.5**	**Remove SVE system from MW1 and MW2**	< 0.50	< 0.50	< 0.50
Toluene	800	160	µg/l		43.9		< 0.50	< 0.50	< 0.50
Ethylbenzene	700	140	µg/l		4.5		< 0.50	< 0.50	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l		15.8		< 1.5	< 1.5	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l		< 0.17		< 0.17	< 0.17	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l		< 0.55		< 0.50	< 0.50	< 0.50
Naphthalene	100	10	µg/l		< 2.5		< 2.5	< 2.5	NA
1,2-Dichloroethane	5	0.5	µg/l		0.84[J]		< 0.17	< 0.17	< 0.17

	ES	PAL	Units	10/16/2017	4/25/2018	6/6/2019	11/22/2019
VOC Parameters							
Benzene	5	0.5	µg/l	**Not Sampled**	**Not Sampled**	**Not Sampled**	**Not Sampled**
Toluene	800	160	µg/l				
Ethylbenzene	700	140	µg/l				
Xylenes (mixed isomers)	2,000	400	µg/l				
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l				
Trimethylbenzenes (mixed isomers)	480	96	µg/l				
Naphthalene	100	10	µg/l				
1,2-Dibromoethane	0.05	0.005	µg/l				
1,2-Dichloroethane	5	0.5	µg/l				
n-Propylbenzene			µg/l				

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2i
Summary of Groundwater Analytical Results
TW1
Former Schlinsog Dairy
Loyal, WI

	ES	PAL	Units	10/16/2017
VOC Parameters				
Benzene	5	0.5	µg/l	< 0.50
Toluene	800	160	µg/l	0.53[J]
Ethylbenzene	700	140	µg/l	< 0.50
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.5
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50
Naphthalene	100	10	µg/l	NA
1,2-Dichloroethane	5	0.5	µg/l	< 0.17

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

Table 2j
Summary of Groundwater Analytical Results
Potable Wells
Former Schlinsog Dairy
Loyal, WI

Parameter	ES	PAL	Units	PW1							
				8/18/2010	2/16/2012	8/14/2013	8/15/2013	8/19/2013	8/20/2013	8/27/2013	9/5/2013
VOC Parameters				*during pump test*							
Benzene	5	0.5	µg/l	**522**	**4,300**	**Initiate groundwater extraction system at PW1**	**881**	**581**	**633**	**366**	**137**
Toluene	800	160	µg/l	*399*	**2,600**		**220**	**172**	**266**	**294**	**56**
Ethylbenzene	700	140	µg/l	113	*560*		*52.1*	*42*	*65.7*	*55.3*	*10.9*
Xylenes (mixed isomers)	2,000	400	µg/l	*692*	**4,600**		**228**	**198**	**328**	**543**	**139**
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	3.6[J]	< 2.3		< 2.5	< 2.5	< 2.5	< 2.5	< 0.49
Trimethylbenzenes (mixed isomers)	480	96	µg/l	*255.5*	**3,120**		**142.9**	**36.2**	**219.2**	**737**	**138.8**
Naphthalene	100	10	µg/l	*31.5*	**1,100**		**19.2**	**0.0**	**24.7**	**41.3**	**10.4**
1,2-Dibromoethane	0.05	0.005	µg/l	NA	NA		NA	NA	NA	NA	NA
1,2-Dichloroethane	5	0.5	µg/l	NA	NA		NA	NA	NA	NA	NA

Parameter	ES	PAL	Units	PW1							
				9/19/2013	10/15/2013	11/20/2013	8/20/2014	8/20/2014	5/5/2016	4/13/2017	
VOC Parameters											
Benzene	5	0.5	µg/l	**116**	**116**	**Convert remedial system to SVE at MW1 and MW2**	**Remove SVE system from MW1 and MW2**	**Not Sampled**	**2,660**	**Not Sampled**	**Well Abandoned**
Toluene	800	160	µg/l	**32.7**	**29**				**897**		
Ethylbenzene	700	140	µg/l	*4.9*	*4.9*				*145*		
Xylenes (mixed isomers)	2,000	400	µg/l	**49.6**	**43.3**				*1,020*		
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.49	< 0.49				< 7.0		
Trimethylbenzenes (mixed isomers)	480	96	µg/l	**16.2**	**14.3**				**479**		
Naphthalene	100	10	µg/l	NA	**3.9**				*< 100*		
1,2-Dibromoethane	0.05	0.005	µg/l	NA	NA				NA		
1,2-Dichloroethane	5	0.5	µg/l	NA	NA				**111**		

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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

*** = samples collected and reported by WDNR

Table 2k
Summary of Groundwater Analytical Results
Potable Wells
Former Schlinsog Dairy
Loyal, WI

Parameter	ES	PAL	Units	PW2	Hubing			
				3/8/2010	***	2/16/2012	4/13/2017	11/22/2019
VOC Parameters								
Benzene	5	0.5	µg/l	**14.4**	*0.77*	*2.30*	< 0.50	**Not Sampled - Access Denied**
Toluene	800	160	µg/l	0.44[J]		< 0.50	< 0.50	
Ethylbenzene	700	140	µg/l	*1.75*		< 0.50	< 0.50	
Xylenes (mixed isomers)	2,000	400	µg/l	3.51		< 0.50	< 1.5	
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.50		< 0.50	< 0.17	
Trimethylbenzenes (mixed isomers)	480	96	µg/l	3.37		< 0.20	< 0.50	
Naphthalene	100	10	µg/l	< 1.0		< 0.25	NA	
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.80		< 0.20	NA	
1,2-Dichloroethane	5	0.5	µg/l	*1.34*	*0.56*	*0.63*[J]	0.36[J]	

Parameter	ES	PAL	Units	PW3 (Kautzer current potable well)						
				1/3/2011	5/31/2011	10/7/2011	2/16/2012	8/27/2013	4/13/2017	11/22/2019
VOC Parameters										
Benzene	5	0.5	µg/l	< 0.41	< 0.41	< 0.39	< 0.20	< 0.50	< 0.50	< 0.042
Toluene	800	160	µg/l	6.70	3.00	1.5	< 0.50	< 0.44	< 0.50	< 0.028
Ethylbenzene	700	140	µg/l	< 0.54	< 0.54	< 0.41	< 0.50	< 0.50	< 0.50	< 0.064
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.8	< 1.8	< 0.87	< 0.50	< 0.82	< 1.5	< 0.074
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.61	< 0.61	< 0.38	< 0.50	< 0.49	< 0.17	< 0.900
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.97	< 0.97	< 0.43	< 0.20	< 2.5	< 0.50	NA
Naphthalene	100	10	µg/l	< 0.89	< 0.89	< 0.40	< 0.25	< 2.5	NA	< 0.171
1,2-Dibromoethane	0.05	0.005	µg/l	< 0.56	< 0.56	NA	< 0.20	< 0.38	NA	< 0.044
1,2-Dichloroethane	5	0.5	µg/l	< 0.57	< 0.57	NA	< 0.50	< 0.28	< 0.17	< 0.071

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
NA = Not Analyzed
[J] = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*
*** = samples collected and reported by WDNR

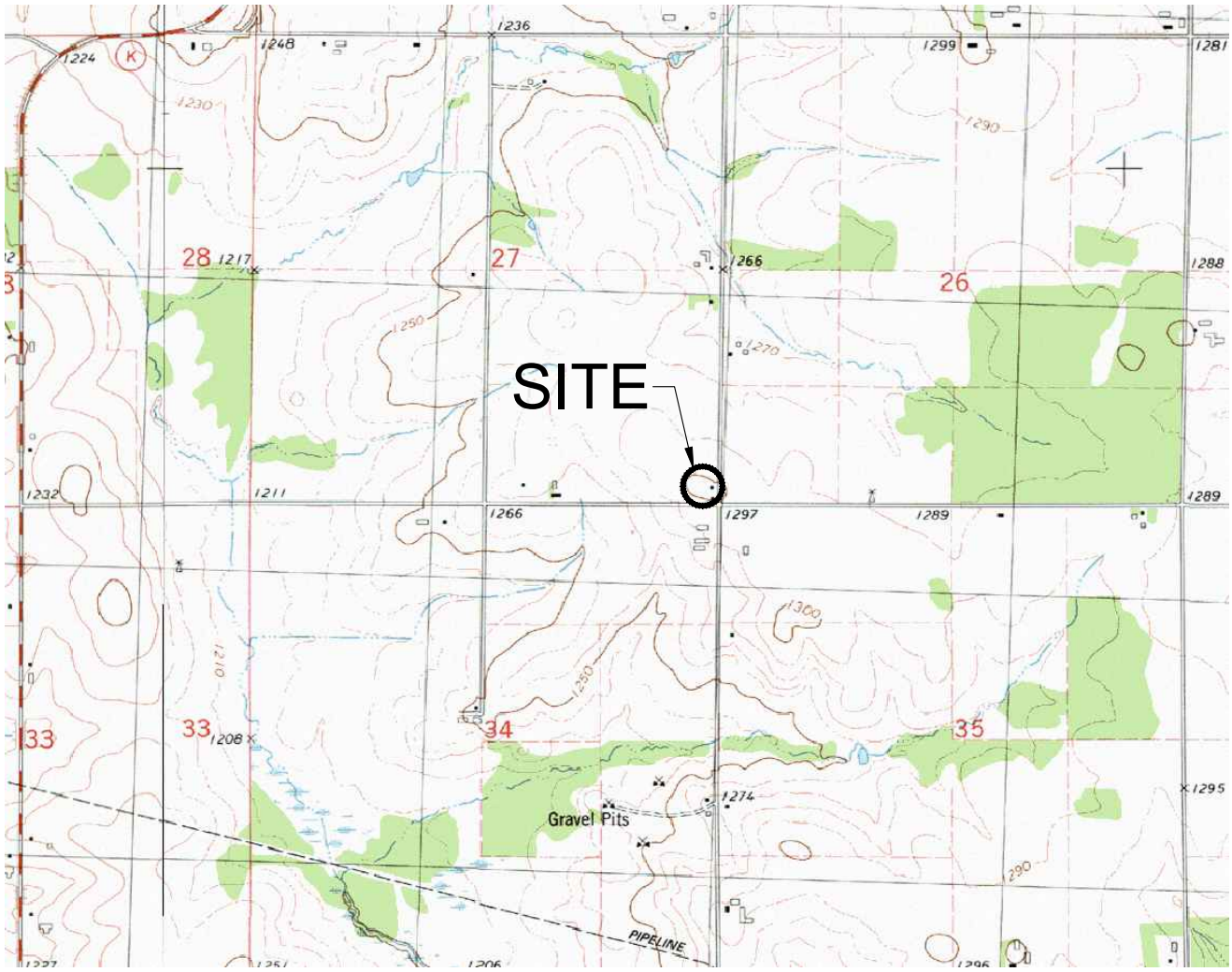
Table 3
Depth to Free Product and Free Product Thickness
Former Schlinsog Dairy
Loyal, WI

Depth To Free Product (feet) below Reference Elevation

Well Name	PW1				MW2			
Date	Depth to Product	Depth to Groundwater	Product Thickness (ft)	Product Removed (gal)	Depth to Product	Depth to Groundwater	Product Thickness (ft)	Product Removed (gal)
11-May-10	-	-	5.00	5.00				
18-May-10	50.00	51.00	1.00					
6-Jul-10	49.56	50.68	1.12					
18-Aug-10	48.40	49.56	1.16					
17-Nov-10	46.87	47.91	1.04					
1-Jan-11	NM	NM			46.01	46.61	0.60	1.00
13-May-11	45.06	45.07	0.01		44.02	45.09	1.07	
31-May-11	0.00	45.27	0.00		44.14	45.32	1.18	2.50
7-Oct-11	45.80	46.47	0.67		44.73	45.99	1.26	2.50
16-Feb-12	47.20	47.63	0.43		45.52	48.80	3.28	2.50
27-Aug-13	NM	NM			48.02	50.05	2.03	2.50
19-Sep-13	NM	NM			48.91	49.73	0.82	1.00
20-May-14	NM	NM			-	46.66	0.00	0.00
20-Aug-14	-	NM	0.00	0.00	-	46.54	0.00	0.00
16-Oct-17	NM	NM			37.99	38.27	0.28	0.50

NM = Not Measured

REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



SCALE 1:24 000

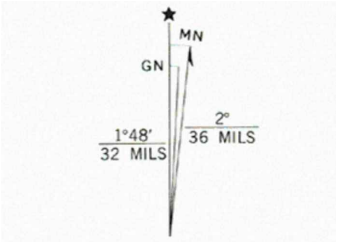
1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION



UTM GRID AND 1979 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

LOYAL EAST, WIS.
NW/4 GRANTON 15' QUADRANGLE
N4437.5–W9022.5/7.5
1979
DMA 2973 III NW–SERIES V861

REI Engineering, INC.

FORMER SCHLINSOG DAIRY N7701 PELSDORF AVENUE LOYAL, WI 54446	FIGURE 1 : SITE VICINITY MAP		
	PROJECT NO. 5357	DRAWN BY: AJG	DATE: 4/20/2017

DRAWING FILE: P:\5300-5399\5357-FORMER_SCHLINSOG\DWG\5357-VICINITY.DWG LAYOUT: VICN PLOTTED: APR 20, 2017 - 10:25AM PLOTTED BY: ALANG

FIELD

FIELD

PW3

HOUSE

MW5

PZ1

PELSDORF AVENUE

GARAGE

GP10

FIELD

MW4

SHED

PW2

GP9

MW2

GP7

GP1

GP6

SHED

GP8

GP5

TW1

PW1

MW1

GP4

GP3

MW3

GP2

TW-ROW

DITCH

MANN ROAD

PZ2

MW6

LEGEND

0 50

SCALE: 1" = 50'

ABANDONED

POTABLE WELL

MONITORING WELL

PIEZOMETER

GEOPROBE SOIL BORINGS

UTILITY POLE

WATER LINE - BURIED

ELECTRICAL LINE - BURIED

TELECOMMUNICATION LINE - BURIED

OVERHEAD UTILITY LINE

UTILITY POLE

REI ENGINEERING

CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

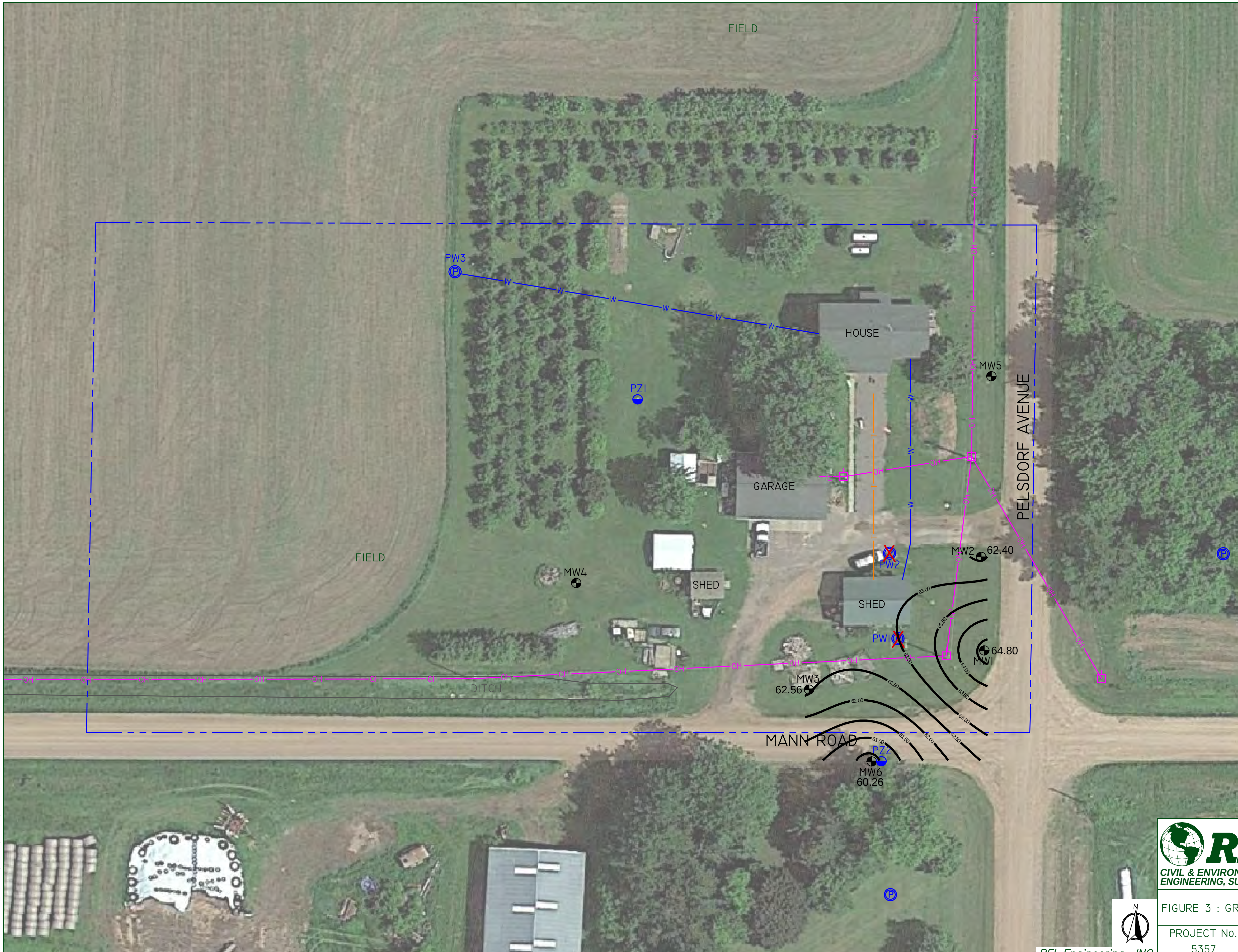
FORMER SCHLINSOG DAIRY
N7701 PELSDORF AVENUE
LOYAL, WISCONSIN 54446

FIGURE 2 : DETAILED SITE MAP

PROJECT No.	DRAWN BY:	DATE:
5357	MCM	1/30/2020

REI Engineering, INC.

DRAWING FILE: P:\5300-5399\5357-FORMER_SCHLINSOG\DWG\5357-SITE.DWG LAYOUT: ENV_HORZ-11X17 PLOTTED: FEB 10, 2020 - 9:31AM PLOTTED BY: NATHANP



LEGEND

0 50
SCALE: 1" = 50'

- ABANDONED
- POTABLE WELL
- MONITORING WELL
- PIEZOMETER
- UTILITY POLE
- WATER LINE - BURIED
- ELECTRICAL LINE - BURIED
- TELECOMMUNICATION LINE - BURIED
- OVERHEAD UTILITY LINE
- UTILITY POLE

NOTES:
1. GROUNDWATER CONTOUR IS BASED ON DEPTH TO GROUNDWATER MEASUREMENTS COLLECTED DURING THE NOVEMBER 22, 2019 MONITORING EVENT.
2. GROUNDWATER ELEVATION DATA BASED ON AN ON-SITE DATUM.

REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

FORMER SCHLINSOG DAIRY
N7701 PELSDORF AVENUE
LOYAL, WISCONSIN 54446

FIGURE 3 : GROUNDWATER CONTOUR FIGURE (11-22-2019)

PROJECT No.	DRAWN BY:	DATE:
5357	MCM	1/30/2020

DRAWING FILE: P:\5300-5399\5357-FORMER_SCHLINSOG\DWG\5357-GW-112219.DWG LAYOUT: ENV_HORZ-11X17 PLOTTED: FEB 10, 2020 - 9:32AM PLOTTED BY: NATHANP

APPENDIX A

WDNR SOIL BORING LOGS, WELL CONSTRUCTION FORMS AND BOREHOLE ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Former Schlinsog Dairy	BRRTS 03-10-554767	TW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Darrin Prentice - Geiss Soil and Sample	10/16/2017	10/16/2017	Geoprobe Hydraulic Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25" V-1

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒TW-1	Lat	Local Grid Location
State Plane	Long	N☐ S☐ E☐ W☐

Facility ID	County	County Code	Civil Town/City/or Village
	Clark	10	Loyal

Sample Number	Sample Type	Sample 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	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	18		1-15	Red/brown clay w/ varying amounts of gravel/sand/cobble	CL					M				
2	SS	24													
3	SS	36													
4	SS	30													
5	SS	18													
6	SS	24													
7	SS	24													
8	SS	20		30-31	Sand layer w/ clay	SC									
9	SS	30		32-39	Red/brown clay w/ varying amounts of sand/gravel	CL									
10	SS	36													
11	SS	12													
12	SS	12													
				48-49	1" Temporary well set at 48'										

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

Signature	Firm
Scott J Bleck	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

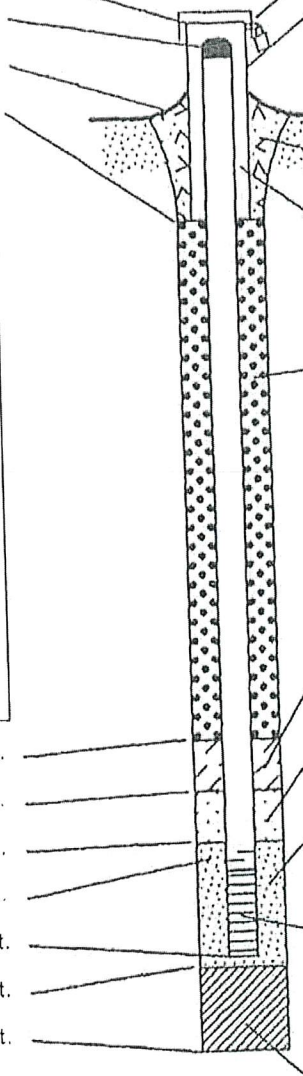
This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable 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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

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

Facility/Project Name: Former Schlinsog Dairy	Local Grid Location of Well ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	Well Name: TW-1
Facility License Permit or Monitoring Number: BRRTS#03-10-554767	Grid Origin Location	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source ☐ E; ___ 1/4 of ___ 1/4 of Sec ___, T. ___ N; R ___ ☐ W	Date Well Installed: 10/16/2017
Distance Well Is From Waste/Source Boundary: Ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☒ Downgradient n ☐ Not Known	Well Installed By (Person's Name and Firm): Darrin Prentice - Geiss Soil & Sample
Is Well A Point of Enforcement Std. Application: ☐ Yes ☐ No		



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.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: 4" in.
   b. Length: 5 ft.
   c. Material: Steel ☒ 04; Other ☐
   d. Additional protection? ☐ Yes ☐ No
      If yes, describe: _____
3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30; Annular space seal ☐; Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33; Bentonite-sand slurry ☐ 35
   b. ___ Lbs/gal mud weight .... Bentonite slurry ☐ 31
   c. ___ Lbs/gal mud weight ..... Bentonite-cement grout ☐ 50
   d. ___ %Bentonite
   e. ___ ft³ Volume added for any of the above
   f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☒ 33; Bentonite pellets ☐ 32
   b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in.
   c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
   a. Red Flint Sand #15
   b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
   a. Red Flint Sand #40
   b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐
10. Screen material: PVC
    a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐
    b. Manufacturer: Johnson Screen
    c. Slot size: 0.10 in.
    d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14; Other ☐

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; Geoprobe; 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 34 ft.
G. Filter pack, top _____ ft. MSL or 36 ft.
H. Screen joint, top _____ ft. MSL or 38 ft.
I. Well bottom _____ ft. MSL or 48 ft.
J. Filter pack, bottom _____ ft. MSL or 48 ft.
K. Borehole, bottom _____ ft. MSL or 48 ft.
L. Borehole, diameter 2.25 in.
M. O.D. well casing 1.4 in.
N. I.D. well casing 0.75 in.

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

Signature	Firm
Scott F. Block	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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility/Project Name Former Schlinsog Dairy	License/Permit/Monitoring Number BRRTS 03-10-554767	Boring Number TW- ROW

Boring Drilled By: Name of crew chief (first, last) and Firm Darrin Prentice - Geiss Soil and Sample	Date Drilling Started 10/16/2017	Date Drilling Completed 10/16/2017

Drilling Method: Geoprobe Hydraulic Push

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation 0	Borehole Diameter 2.25"

V- ROW

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☒ TW- ROW State Plane	Lat Long	Local Grid Location N ☐ E ☐ S ☐ W ☐

Facility ID	County Clark	County Code 10	Civil Town/City/or Village Loyal

Sample Number	Sample Type	Sample 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	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	SS	24		1–3	Low plasticity brown/red clay w/ orange and gray mottling Organicy	OL					M				
				2–3	Sandy brown/red clay	CL									
2	SS	18		4–11	Red/brown sand/clay mix w/ some cobble	CL									
3	SS	30													
4	SS	24		12–15	Red/brown sand/clay mix w/ large intermittent cobble	CL									
5	SS	0		16–17	No recovery										
6	SS	18		18–23	Red/brown sand/clay mix, increasing angular gravel and cobble seam of medium/coarse sand at ~19'	CL									
7	SS	20													
8	SS	18		24–29	Hard clay/silt/sand conglomerate Angular gravel, cobble, virtually impassible	CL									
				30–32	Boring abandoned - drilling too difficult										

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

Signature: Scott Bleck	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 thes 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.

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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 ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well TW-ROW	Hicap #
Clark		

Latitude / Longitude (see instructions) ____ N ____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: N7705 Pelsdorf Avenue

Well City, Village or Town	Well ZIP Code
Loyal	54446

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Schlinsog Dairy

Facility ID (FID or PWS):

License/Permit/Monitoring #: BRRTS #03-10-554767

Original Well Owner: Schlinsog Dairy

Present Well Owner:

Mailing Address of Present Owner: N7705 Pelsdorf Avenue

City of Present Owner	State	ZIP Code
Loyal	WI	54446

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-17

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
30	
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)

4. 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 retopped?	☐ 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
Granular bentonite	Surface	30	1/4 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
REI Engineering, Inc./Geiss Soil and Sample		10/16/17

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

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	Scott J Blader	11/9/2017

DNR Use Only

Date Received	Noted By
Comments	

APPENDIX B

LABORATORY ANALYTICAL REPORTS

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

October 19, 2017

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

RE: Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158761001	**MW-1**	Water	10/16/17 12:40	10/17/17 08:45
40158761002	**MW-2**	Water	10/16/17 13:00	10/17/17 08:45
40158761003	**MW-3**	Water	10/16/17 11:20	10/17/17 08:45
40158761004	**MW-6**	Water	10/16/17 12:15	10/17/17 08:45
40158761005	**TW-1**	Water	10/16/17 14:30	10/17/17 08:45

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

SAMPLE ANALYTE COUNT

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158761001	**MW-1**	EPA 8260	LAP	13
40158761002	**MW-2**	EPA 8260	LAP	13
40158761003	**MW-3**	EPA 8260	LAP	13
40158761004	**MW-6**	EPA 8260	LAP	13
40158761005	**TW-1**	EPA 8260	LAP	13

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

ANALYTICAL RESULTS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Sample: MW-1 **Lab ID: 40158761001** Collected: 10/16/17 12:40 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**7690**	ug/L	100	50.0	100		10/18/17 12:30	71-43-2	
1,2-Dichloroethane	**401**	ug/L	100	16.8	100		10/18/17 12:30	107-06-2	
Ethylbenzene	**2980**	ug/L	100	50.0	100		10/18/17 12:30	100-41-4	
Methyl-tert-butyl ether	**<17.4**	ug/L	100	17.4	100		10/18/17 12:30	1634-04-4	
Toluene	**13000**	ug/L	100	50.0	100		10/18/17 12:30	108-88-3	
1,2,4-Trimethylbenzene	**1930**	ug/L	100	50.0	100		10/18/17 12:30	95-63-6	
1,3,5-Trimethylbenzene	**505**	ug/L	100	50.0	100		10/18/17 12:30	108-67-8	
Xylene (Total)	**12000**	ug/L	300	150	100		10/18/17 12:30	1330-20-7	
m&p-Xylene	**8690**	ug/L	200	100	100		10/18/17 12:30	179601-23-1	
o-Xylene	**3340**	ug/L	100	50.0	100		10/18/17 12:30	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	67-130		100		10/18/17 12:30	1868-53-7	
Toluene-d8 (S)	101	%	70-130		100		10/18/17 12:30	2037-26-5	
4-Bromofluorobenzene (S)	93	%	61-130		100		10/18/17 12:30	460-00-4	

Sample: MW-2 **Lab ID: 40158761002** Collected: 10/16/17 13:00 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**11100**	ug/L	100	50.0	100		10/18/17 12:07	71-43-2	
1,2-Dichloroethane	**420**	ug/L	100	16.8	100		10/18/17 12:07	107-06-2	
Ethylbenzene	**3230**	ug/L	100	50.0	100		10/18/17 12:07	100-41-4	
Methyl-tert-butyl ether	**<17.4**	ug/L	100	17.4	100		10/18/17 12:07	1634-04-4	
Toluene	**27600**	ug/L	100	50.0	100		10/18/17 12:07	108-88-3	
1,2,4-Trimethylbenzene	**2300**	ug/L	100	50.0	100		10/18/17 12:07	95-63-6	
1,3,5-Trimethylbenzene	**589**	ug/L	100	50.0	100		10/18/17 12:07	108-67-8	
Xylene (Total)	**15500**	ug/L	300	150	100		10/18/17 12:07	1330-20-7	
m&p-Xylene	**10600**	ug/L	200	100	100		10/18/17 12:07	179601-23-1	
o-Xylene	**4930**	ug/L	100	50.0	100		10/18/17 12:07	95-47-6	
Surrogates									
Dibromofluoromethane (S)	111	%	67-130		100		10/18/17 12:07	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		10/18/17 12:07	2037-26-5	
4-Bromofluorobenzene (S)	93	%	61-130		100		10/18/17 12:07	460-00-4	

Sample: MW-3 **Lab ID: 40158761003** Collected: 10/16/17 11:20 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**29.2**	ug/L	2.0	1.0	2		10/18/17 12:51	71-43-2	
1,2-Dichloroethane	**<0.34**	ug/L	2.0	0.34	2		10/18/17 12:51	107-06-2	
Ethylbenzene	**59.6**	ug/L	2.0	1.0	2		10/18/17 12:51	100-41-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Sample: MW-3 **Lab ID: 40158761003** Collected: 10/16/17 11:20 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Methyl-tert-butyl ether	**<0.35**	ug/L	2.0	0.35	2		10/18/17 12:51	1634-04-4	
Toluene	**4.8**	ug/L	2.0	1.0	2		10/18/17 12:51	108-88-3	
1,2,4-Trimethylbenzene	**51.6**	ug/L	2.0	1.0	2		10/18/17 12:51	95-63-6	
1,3,5-Trimethylbenzene	**29.2**	ug/L	2.0	1.0	2		10/18/17 12:51	108-67-8	
Xylene (Total)	**62.5**	ug/L	6.0	3.0	2		10/18/17 12:51	1330-20-7	
m&p-Xylene	**62.5**	ug/L	4.0	2.0	2		10/18/17 12:51	179601-23-1	
o-Xylene	**<1.0**	ug/L	2.0	1.0	2		10/18/17 12:51	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	67-130		2		10/18/17 12:51	1868-53-7	D3
Toluene-d8 (S)	97	%	70-130		2		10/18/17 12:51	2037-26-5	
4-Bromofluorobenzene (S)	94	%	61-130		2		10/18/17 12:51	460-00-4	

Sample: MW-6 **Lab ID: 40158761004** Collected: 10/16/17 12:15 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.80J**	ug/L	1.0	0.50	1		10/18/17 18:00	71-43-2	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 18:00	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 18:00	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		10/18/17 18:00	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 18:00	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 18:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 18:00	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/18/17 18:00	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		10/18/17 18:00	179601-23-1	
o-Xylene	**1.2**	ug/L	1.0	0.50	1		10/18/17 18:00	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	67-130		1		10/18/17 18:00	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/18/17 18:00	2037-26-5	
4-Bromofluorobenzene (S)	91	%	61-130		1		10/18/17 18:00	460-00-4	

Sample: TW-1 **Lab ID: 40158761005** Collected: 10/16/17 14:30 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 16:10	71-43-2	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		10/18/17 16:10	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 16:10	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		10/18/17 16:10	1634-04-4	
Toluene	**0.53J**	ug/L	1.0	0.50	1		10/18/17 16:10	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 16:10	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Sample: TW-1 **Lab ID: 40158761005** Collected: 10/16/17 14:30 Received: 10/17/17 08:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 16:10	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/18/17 16:10	1330-20-7	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		10/18/17 16:10	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		10/18/17 16:10	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	67-130		1		10/18/17 16:10	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/18/17 16:10	2037-26-5	
4-Bromofluorobenzene (S)	91	%	61-130		1		10/18/17 16:10	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

QC Batch: 270966 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40158761001, 40158761002, 40158761003, 40158761004, 40158761005

METHOD BLANK: 1593061 Matrix: Water
Associated Lab Samples: 40158761001, 40158761002, 40158761003, 40158761004, 40158761005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	10/18/17 08:28	
1,2-Dichloroethane	ug/L	<0.17	1.0	10/18/17 08:28	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	10/18/17 08:28	
Benzene	ug/L	<0.50	1.0	10/18/17 08:28	
Ethylbenzene	ug/L	<0.50	1.0	10/18/17 08:28	
m&p-Xylene	ug/L	<1.0	2.0	10/18/17 08:28	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	10/18/17 08:28	
o-Xylene	ug/L	<0.50	1.0	10/18/17 08:28	
Toluene	ug/L	<0.50	1.0	10/18/17 08:28	
Xylene (Total)	ug/L	<1.5	3.0	10/18/17 08:28	
4-Bromofluorobenzene (S)	%	90	61-130	10/18/17 08:28	
Dibromofluoromethane (S)	%	103	67-130	10/18/17 08:28	
Toluene-d8 (S)	%	102	70-130	10/18/17 08:28	

LABORATORY CONTROL SAMPLE: 1593062

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	49.6	53.9	109	70-131	
Benzene	ug/L	49.6	57.6	116	73-145	
Ethylbenzene	ug/L	49.6	54.2	109	87-129	
m&p-Xylene	ug/L	99.2	108	108	70-130	
Methyl-tert-butyl ether	ug/L	49.6	50.7	102	66-143	
o-Xylene	ug/L	49.6	52.7	106	70-130	
Toluene	ug/L	49.6	53.0	107	82-130	
Xylene (Total)	ug/L	149	160	108	70-130	
4-Bromofluorobenzene (S)	%			97	61-130	
Dibromofluoromethane (S)	%			111	67-130	
Toluene-d8 (S)	%			100	70-130	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40158761

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158761001	**MW-1**	EPA 8260	270966		
40158761002	**MW-2**	EPA 8260	270966		
40158761003	**MW-3**	EPA 8260	270966		
40158761004	**MW-6**	EPA 8260	270966		
40158761005	**TW-1**	EPA 8260	270966		

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

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www.pacelabs.com

90158761

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	715-675-9784
Project Number:	5357AAMC
Project Name:	Schlinsog Dairy
Project State:	WI
Sampled By (Print):	Scott Blade
Sampled By (Sign):	Scott Blade
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	DLarsen@reiengineering.com
Invoice To Contact:	SAA
Invoice To Company:	SAA
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC /12 OC4	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	10/16	12:40	GW	N	B			3-40mL vB	
002	MW-2		1:00						↓	
003	MW-3		11:20							
004	MW-4		12:15							
005	TW-1		2:30					*1 vial	1-40mL vB	

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Scott Blade	10/16/17 4:15		
walter	10/17/17 0845	Rachel Mus Pace	10/17/17 0845

PACE Project No.: 90158761
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project # **WO# : 40158761**

40158761

Client Name: PEI

Courier: ☐ Fed Ex ☑ UPS ☐ Client ☐ Pace Other: Walter

Tracking #: 1521203-1

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

RMW 10/17/17

Temp Blank Present: ☐ yes ☑ no

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

Person examining contents:
Date: 10/17/17
Initials: RMW

Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☐Yes	☑No	☐N/A	8. NO ms/msd RMW 10/17/17
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	14.
Trip Blank Present:	☑Yes	☑No	☐N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): RMW 10/17/17				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 10-17-17

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

April 30, 2018

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

RE: Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

Pace Analytical Services, LLC
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Green Bay, WI 54302
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CERTIFICATIONS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168015001	**MW-1**	Water	04/25/18 12:00	04/26/18 08:30
40168015002	**MW-2**	Water	04/25/18 12:15	04/26/18 08:30
40168015003	**MW-3**	Water	04/25/18 11:30	04/26/18 08:30
40168015004	**MW-6**	Water	04/25/18 11:00	04/26/18 08:30

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SAMPLE ANALYTE COUNT

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168015001	**MW-1**	EPA 8260	LAP	11
40168015002	**MW-2**	EPA 8260	LAP	11
40168015003	**MW-3**	EPA 8260	LAP	11
40168015004	**MW-6**	EPA 8260	LAP	11

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ANALYTICAL RESULTS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Sample: MW-1 **Lab ID: 40168015001** Collected: 04/25/18 12:00 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**2430**	ug/L	100	50.0	100		04/27/18 22:46	71-43-2	
1,2-Dichloroethane	**190**	ug/L	100	16.8	100		04/27/18 22:46	107-06-2	
Ethylbenzene	**1110**	ug/L	100	50.0	100		04/27/18 22:46	100-41-4	
Methyl-tert-butyl ether	**<17.4**	ug/L	100	17.4	100		04/27/18 22:46	1634-04-4	
Toluene	**7090**	ug/L	100	50.0	100		04/27/18 22:46	108-88-3	
1,2,4-Trimethylbenzene	**903**	ug/L	100	50.0	100		04/27/18 22:46	95-63-6	
1,3,5-Trimethylbenzene	**222**	ug/L	100	50.0	100		04/27/18 22:46	108-67-8	
Xylene (Total)	**6030**	ug/L	300	150	100		04/27/18 22:46	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	67-130		100		04/27/18 22:46	1868-53-7	
Toluene-d8 (S)	95	%	70-130		100		04/27/18 22:46	2037-26-5	
4-Bromofluorobenzene (S)	94	%	61-130		100		04/27/18 22:46	460-00-4	

Sample: MW-2 **Lab ID: 40168015002** Collected: 04/25/18 12:15 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**6950**	ug/L	100	50.0	100		04/27/18 23:09	71-43-2	
1,2-Dichloroethane	**491**	ug/L	100	16.8	100		04/27/18 23:09	107-06-2	
Ethylbenzene	**2990**	ug/L	100	50.0	100		04/27/18 23:09	100-41-4	
Methyl-tert-butyl ether	**<17.4**	ug/L	100	17.4	100		04/27/18 23:09	1634-04-4	
Toluene	**11500**	ug/L	100	50.0	100		04/27/18 23:09	108-88-3	
1,2,4-Trimethylbenzene	**2490**	ug/L	100	50.0	100		04/27/18 23:09	95-63-6	
1,3,5-Trimethylbenzene	**607**	ug/L	100	50.0	100		04/27/18 23:09	108-67-8	
Xylene (Total)	**13000**	ug/L	300	150	100		04/27/18 23:09	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	98	%	67-130		100		04/27/18 23:09	1868-53-7	
Toluene-d8 (S)	96	%	70-130		100		04/27/18 23:09	2037-26-5	
4-Bromofluorobenzene (S)	95	%	61-130		100		04/27/18 23:09	460-00-4	

Sample: MW-3 **Lab ID: 40168015003** Collected: 04/25/18 11:30 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:17	71-43-2	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/27/18 18:17	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:17	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/27/18 18:17	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:17	108-88-3	
1,2,4-Trimethylbenzene	**2.1**	ug/L	1.0	0.50	1		04/27/18 18:17	95-63-6	
1,3,5-Trimethylbenzene	**0.97J**	ug/L	1.0	0.50	1		04/27/18 18:17	108-67-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Sample: MW-3 **Lab ID: 40168015003** Collected: 04/25/18 11:30 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Xylene (Total)	**2.2J**	ug/L	3.0	1.5	1		04/27/18 18:17	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	103	%	67-130		1		04/27/18 18:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/27/18 18:17	2037-26-5	
4-Bromofluorobenzene (S)	96	%	61-130		1		04/27/18 18:17	460-00-4	

Sample: MW-6 **Lab ID: 40168015004** Collected: 04/25/18 11:00 Received: 04/26/18 08:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:39	71-43-2	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/27/18 18:39	107-06-2	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:39	100-41-4	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/27/18 18:39	1634-04-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:39	108-88-3	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/27/18 18:39	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		04/27/18 18:39	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	99	%	67-130		1		04/27/18 18:39	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		04/27/18 18:39	2037-26-5	
4-Bromofluorobenzene (S)	91	%	61-130		1		04/27/18 18:39	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

QC Batch: 287155 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40168015001, 40168015002, 40168015003, 40168015004

METHOD BLANK: 1679874 Matrix: Water
Associated Lab Samples: 40168015001, 40168015002, 40168015003, 40168015004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/27/18 14:54	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/27/18 14:54	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/27/18 14:54	
Benzene	ug/L	<0.50	1.0	04/27/18 14:54	
Ethylbenzene	ug/L	<0.50	1.0	04/27/18 14:54	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/27/18 14:54	
Toluene	ug/L	<0.50	1.0	04/27/18 14:54	
Xylene (Total)	ug/L	<1.5	3.0	04/27/18 14:54	
4-Bromofluorobenzene (S)	%	84	61-130	04/27/18 14:54	
Dibromofluoromethane (S)	%	111	67-130	04/27/18 14:54	
Toluene-d8 (S)	%	96	70-130	04/27/18 14:54	

LABORATORY CONTROL SAMPLE: 1679875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.9	100	70-131	
Benzene	ug/L	50	52.7	105	73-145	
Ethylbenzene	ug/L	50	58.3	117	87-129	
Methyl-tert-butyl ether	ug/L	50	45.4	91	66-143	
Toluene	ug/L	50	54.4	109	82-130	
Xylene (Total)	ug/L	150	183	122	70-130	
4-Bromofluorobenzene (S)	%			102	61-130	
Dibromofluoromethane (S)	%			99	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1679876 1679877

Parameter	Units	40168051009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.17	50	50	49.5	50.3	99	101	70-131	1	20	
Benzene	ug/L	11.8	50	50	64.1	64.0	105	104	73-145	0	20	
Ethylbenzene	ug/L	6.3	50	50	63.1	65.0	114	117	87-129	3	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.1	48.6	92	97	66-143	5	20	
Toluene	ug/L	<0.50	50	50	52.8	54.0	106	108	82-131	2	20	
Xylene (Total)	ug/L	4.4	150	150	179	184	116	120	70-130	3	20	
4-Bromofluorobenzene (S)	%						101	101	61-130			
Dibromofluoromethane (S)	%						101	100	67-130			
Toluene-d8 (S)	%						99	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5357AXUC SCHLINSOG DAIRY
Pace Project No.: 40168015

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168015001	**MW-1**	EPA 8260	287155		
40168015002	**MW-2**	EPA 8260	287155		
40168015003	**MW-3**	EPA 8260	287155		
40168015004	**MW-6**	EPA 8260	287155		

(Please Print Clearly)

Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larson
Phone:	715-675-9784
Project Number:	5357AXUC
Project Name:	Schlunsog Dairy
Project State:	WI
Sampled By (Print):	Jed Kosch
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Pace Analytical®
www.pacelabs.com

CHAIN OF COSTODY

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

40168015

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

Quote #:	
Mail To Contact:	Dave Larson
Mail To Company:	REI
Mail To Address:	DLarson@reiengineering.com
Invoice To Contact:	Same
Invoice To Company:	↓
Invoice To Address:	↓
Invoice To Phone:	

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

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

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

FILTERED? (YES/NO) — Y/N: N
PRESERVATION (CODE)* — Pick Letter: B
Analyses Requested: PVOC + 1,2DCA

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC + 1,2DCA	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	4/25/18	12:00	GW	✓			
002	MW-2	↓	12:15	↓	↓			
003	MW-3	↓	11:30	↓	↓			
004	MW-6	↓	11:00	↓	↓			

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Matthew W. [signature]	4/25/18 14:40		
Walco	4-26-18 0830	Susan Klyle Pace	4-26-18 0830

PACE Project No. 40168015
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / ~~Not Present~~
Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
ORIGINAL

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

Client Name: REI

Sample Preservation Receipt Form

Project # 40168015

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
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011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Condition Upon Receipt Form (SCUR)

Client Name: REI

Project #: WO#: 40168015

40168015

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

Tracking #: 1702196

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

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

Cooler Temperature Uncorr: ROI /Corr:

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

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

Person examining contents:
Date: 4-26-18
Initials: EW

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

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 4-26-18

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

June 11, 2019

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

RE: Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189033001	**MW1**	Water	06/06/19 12:00	06/07/19 09:15
40189033002	**MW2**	Water	06/06/19 12:15	06/07/19 09:15
40189033003	**MW3**	Water	06/06/19 11:45	06/07/19 09:15
40189033004	**MW6**	Water	06/06/19 11:30	06/07/19 09:15

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40189033001	**MW1**	EPA 8260	LAP	11
40189033002	**MW2**	EPA 8260	LAP	11
40189033003	**MW3**	EPA 8260	LAP	11
40189033004	**MW6**	EPA 8260	LAP	11

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ANALYTICAL RESULTS

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Sample: MW1 **Lab ID: 40189033001** Collected: 06/06/19 12:00 Received: 06/07/19 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**5510**	ug/L	100	24.6	100		06/11/19 03:12	71-43-2	
1,2-Dichloroethane	**384**	ug/L	100	28.0	100		06/11/19 03:12	107-06-2	
Ethylbenzene	**999**	ug/L	100	21.8	100		06/11/19 03:12	100-41-4	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		06/11/19 03:12	1634-04-4	
Toluene	**7970**	ug/L	500	17.2	100		06/11/19 03:12	108-88-3	
1,2,4-Trimethylbenzene	**1850**	ug/L	280	84.1	100		06/11/19 03:12	95-63-6	
1,3,5-Trimethylbenzene	**615**	ug/L	291	87.3	100		06/11/19 03:12	108-67-8	
Xylene (Total)	**8600**	ug/L	300	150	100		06/11/19 03:12	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		100		06/11/19 03:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		100		06/11/19 03:12	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		100		06/11/19 03:12	460-00-4	

Sample: MW2 **Lab ID: 40189033002** Collected: 06/06/19 12:15 Received: 06/07/19 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**6890**	ug/L	100	24.6	100		06/11/19 03:34	71-43-2	
1,2-Dichloroethane	**659**	ug/L	100	28.0	100		06/11/19 03:34	107-06-2	
Ethylbenzene	**3140**	ug/L	100	21.8	100		06/11/19 03:34	100-41-4	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		06/11/19 03:34	1634-04-4	
Toluene	**10500**	ug/L	500	17.2	100		06/11/19 03:34	108-88-3	
1,2,4-Trimethylbenzene	**2150**	ug/L	280	84.1	100		06/11/19 03:34	95-63-6	
1,3,5-Trimethylbenzene	**501**	ug/L	291	87.3	100		06/11/19 03:34	108-67-8	
Xylene (Total)	**11100**	ug/L	300	150	100		06/11/19 03:34	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	111	%	70-130		100		06/11/19 03:34	1868-53-7	
Toluene-d8 (S)	94	%	70-130		100		06/11/19 03:34	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		100		06/11/19 03:34	460-00-4	

Sample: MW3 **Lab ID: 40189033003** Collected: 06/06/19 11:45 Received: 06/07/19 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**571**	ug/L	5.0	1.2	5		06/11/19 07:50	71-43-2	HS,M1
1,2-Dichloroethane	**66.8**	ug/L	1.0	0.28	1		06/10/19 21:13	107-06-2	M1
Ethylbenzene	**30.8**	ug/L	1.0	0.22	1		06/10/19 21:13	100-41-4	M1
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		06/10/19 21:13	1634-04-4	
Toluene	**12.7**	ug/L	5.0	0.17	1		06/10/19 21:13	108-88-3	
1,2,4-Trimethylbenzene	**11.7**	ug/L	2.8	0.84	1		06/10/19 21:13	95-63-6	
1,3,5-Trimethylbenzene	**3.1**	ug/L	2.9	0.87	1		06/10/19 21:13	108-67-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Sample: MW3 **Lab ID: 40189033003** Collected: 06/06/19 11:45 Received: 06/07/19 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Xylene (Total)	**30.9**	ug/L	3.0	1.5	1		06/10/19 21:13	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	113	%	70-130		1		06/10/19 21:13	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/10/19 21:13	2037-26-5	
4-Bromofluorobenzene (S)	105	%	70-130		1		06/10/19 21:13	460-00-4	

Sample: MW6 **Lab ID: 40189033004** Collected: 06/06/19 11:30 Received: 06/07/19 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**98.0**	ug/L	1.0	0.25	1		06/11/19 00:35	71-43-2	
1,2-Dichloroethane	**8.3**	ug/L	1.0	0.28	1		06/11/19 00:35	107-06-2	
Ethylbenzene	**26.7**	ug/L	1.0	0.22	1		06/11/19 00:35	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		06/11/19 00:35	1634-04-4	
Toluene	**7.8**	ug/L	5.0	0.17	1		06/11/19 00:35	108-88-3	
1,2,4-Trimethylbenzene	**6.4**	ug/L	2.8	0.84	1		06/11/19 00:35	95-63-6	
1,3,5-Trimethylbenzene	**3.0**	ug/L	2.9	0.87	1		06/11/19 00:35	108-67-8	
Xylene (Total)	**19.0**	ug/L	3.0	1.5	1		06/11/19 00:35	1330-20-7	
Surrogates									
Dibromofluoromethane (S)	113	%	70-130		1		06/11/19 00:35	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/11/19 00:35	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		06/11/19 00:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

QC Batch: 323797 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40189033001, 40189033002, 40189033003, 40189033004

METHOD BLANK: 1880602 Matrix: Water
Associated Lab Samples: 40189033001, 40189033002, 40189033003, 40189033004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/10/19 17:29	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/10/19 17:29	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/10/19 17:29	
Benzene	ug/L	<0.25	1.0	06/10/19 17:29	
Ethylbenzene	ug/L	<0.22	1.0	06/10/19 17:29	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/10/19 17:29	
Toluene	ug/L	<0.17	5.0	06/10/19 17:29	
Xylene (Total)	ug/L	<1.5	3.0	06/10/19 17:29	
4-Bromofluorobenzene (S)	%	105	70-130	06/10/19 17:29	
Dibromofluoromethane (S)	%	111	70-130	06/10/19 17:29	
Toluene-d8 (S)	%	102	70-130	06/10/19 17:29	

LABORATORY CONTROL SAMPLE: 1880603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	60.6	121	75-140	
Benzene	ug/L	50	55.0	110	70-130	
Ethylbenzene	ug/L	50	57.5	115	80-124	
Methyl-tert-butyl ether	ug/L	50	47.5	95	54-137	
Toluene	ug/L	50	53.3	107	80-126	
Xylene (Total)	ug/L	150	163	109	70-130	
4-Bromofluorobenzene (S)	%			111	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1881177 1881178

Parameter	Units	40189033003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	66.8	50	50	104	100	74	67	75-140	4	20	M1
Benzene	ug/L	571	50	50	402	357	-338	-428	70-130	12	20	E,M1
Ethylbenzene	ug/L	30.8	50	50	76.0	68.2	90	75	80-125	11	20	M1
Methyl-tert-butyl ether	ug/L	<1.2	50	50	56.1	57.2	112	114	51-145	2	20	
Toluene	ug/L	12.7	50	50	61.4	58.9	97	92	80-131	4	20	
Xylene (Total)	ug/L	30.9	150	150	187	181	104	100	70-130	3	20	
4-Bromofluorobenzene (S)	%						113	113	70-130			
Dibromofluoromethane (S)	%						113	115	70-130			
Toluene-d8 (S)	%						103	101	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5357 SCHLINSOG DAIRY
Pace Project No.: 40189033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189033001	**MW1**	EPA 8260	323797		
40189033002	**MW2**	EPA 8260	323797		
40189033003	**MW3**	EPA 8260	323797		
40189033004	**MW6**	EPA 8260	323797		

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

Page 1 of 1

Pace Analytical
www.pacelabs.com

CHAIN OF CUSTODY

40189033

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Dave Larsen
Phone:	715-675-9784
Project Number:	5357
Project Name:	Schlinsog dairy
Project State:	WI
Sampled By (Print):	Fletcher, Jake R.
Sampled By (Sign):	
PO #:	Regulatory Program:

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

Quote #:	
Mail To Contact:	Dave Larsen
Mail To Company:	REI
Mail To Address:	Dlarsen@REIengineering.com
Invoice To Contact:	SAA
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC	1-2 DCA	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1	6 Jun 11	12:00	GW	N	B	X	X			
002	MW2	"	12:15	"	N	B	X	X			
003	MW3	"	11:45	"	N	B	X	X			
004	MW6	"	11:30	"	N	B	X	X			

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6/6/11 3:20pm		
	6-7-11 0915		6-7-11 0915

PACE Project No. 40189033

Receipt Temp = 4.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Client Name: REI

Sample Preservation Receipt Form

Project # 40189033

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

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/ Time:

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

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

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40189033

40189033

Client Name: REI

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

Tracking #: 20782796

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

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

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

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

Cooler Temperature Uncorr: ROI /Corr: _____

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

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

Person examining contents:
Date: 6-7-19
Initials: SCW

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

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 6-7-19

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

December 10, 2019

Ryan Resch
REI
4080 North 20th Ave
Wausau, WI 54401

RE: Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Dear Ryan Resch:
Enclosed are the analytical results for sample(s) received by the laboratory on November 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Pace Analytical Services Green Bay
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199835001	**MW1**	Water	11/22/19 11:30	11/23/19 09:20
40199835002	**MW2**	Water	11/22/19 11:45	11/23/19 09:20
40199835003	**MW3**	Water	11/22/19 11:00	11/23/19 09:20
40199835004	**MW6**	Water	11/22/19 10:45	11/23/19 09:20
40199835005	**KAUTZER WELL**	Water	11/22/19 12:15	11/23/19 09:20

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SAMPLE ANALYTE COUNT

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199835001	**MW1**	EPA 8260	LAP	13	PASI-G
40199835002	**MW2**	EPA 8260	LAP	13	PASI-G
40199835003	**MW3**	EPA 8260	LAP	13	PASI-G
40199835004	**MW6**	EPA 8260	LAP	13	PASI-G

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ANALYTICAL RESULTS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Sample: MW1 **Lab ID: 40199835001** Collected: 11/22/19 11:30 Received: 11/23/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**990**	ug/L	100	24.6	100		11/26/19 09:50	71-43-2	
1,2-Dichloroethane	**88.3J**	ug/L	100	28.0	100		11/26/19 09:50	107-06-2	
Ethylbenzene	**1360**	ug/L	100	21.8	100		11/26/19 09:50	100-41-4	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		11/26/19 09:50	1634-04-4	
Toluene	**6050**	ug/L	500	17.2	100		11/26/19 09:50	108-88-3	
1,2,4-Trimethylbenzene	**932**	ug/L	280	84.1	100		11/26/19 09:50	95-63-6	
1,3,5-Trimethylbenzene	**216J**	ug/L	291	87.3	100		11/26/19 09:50	108-67-8	
Xylene (Total)	**5880**	ug/L	300	150	100		11/26/19 09:50	1330-20-7	
m&p-Xylene	**3960**	ug/L	200	46.5	100		11/26/19 09:50	179601-23-1	
o-Xylene	**1930**	ug/L	100	26.2	100		11/26/19 09:50	95-47-6	
Surrogates									
Dibromofluoromethane (S)	88	%	70-130		100		11/26/19 09:50	1868-53-7	
Toluene-d8 (S)	100	%	70-130		100		11/26/19 09:50	2037-26-5	
4-Bromofluorobenzene (S)	114	%	70-130		100		11/26/19 09:50	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Sample: MW2 **Lab ID: 40199835002** Collected: 11/22/19 11:45 Received: 11/23/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**4020**	ug/L	100	24.6	100		11/26/19 09:26	71-43-2	
1,2-Dichloroethane	**332**	ug/L	100	28.0	100		11/26/19 09:26	107-06-2	
Ethylbenzene	**2830**	ug/L	100	21.8	100		11/26/19 09:26	100-41-4	
Methyl-tert-butyl ether	**<125**	ug/L	415	125	100		11/26/19 09:26	1634-04-4	
Toluene	**9960**	ug/L	500	17.2	100		11/26/19 09:26	108-88-3	
1,2,4-Trimethylbenzene	**2130**	ug/L	280	84.1	100		11/26/19 09:26	95-63-6	
1,3,5-Trimethylbenzene	**498**	ug/L	291	87.3	100		11/26/19 09:26	108-67-8	
Xylene (Total)	**11300**	ug/L	300	150	100		11/26/19 09:26	1330-20-7	
m&p-Xylene	**7660**	ug/L	200	46.5	100		11/26/19 09:26	179601-23-1	
o-Xylene	**3630**	ug/L	100	26.2	100		11/26/19 09:26	95-47-6	
Surrogates									
Dibromofluoromethane (S)	89	%	70-130		100		11/26/19 09:26	1868-53-7	
Toluene-d8 (S)	106	%	70-130		100		11/26/19 09:26	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		100		11/26/19 09:26	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Sample: MW3 **Lab ID: 40199835003** Collected: 11/22/19 11:00 Received: 11/23/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/27/19 08:08	71-43-2	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/27/19 08:08	107-06-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/27/19 08:08	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/27/19 08:08	1634-04-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/27/19 08:08	108-88-3	
1,2,4-Trimethylbenzene	**1.9J**	ug/L	2.8	0.84	1		11/27/19 08:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/27/19 08:08	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/27/19 08:08	1330-20-7	
m&p-Xylene	**0.54J**	ug/L	2.0	0.47	1		11/27/19 08:08	179601-23-1	
o-Xylene	**0.61J**	ug/L	1.0	0.26	1		11/27/19 08:08	95-47-6	
Surrogates									
Dibromofluoromethane (S)	83	%	70-130		1		11/27/19 08:08	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/27/19 08:08	2037-26-5	
4-Bromofluorobenzene (S)	116	%	70-130		1		11/27/19 08:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Sample: MW6 **Lab ID: 40199835004** Collected: 11/22/19 10:45 Received: 11/23/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/26/19 08:13	71-43-2	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		11/26/19 08:13	107-06-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/26/19 08:13	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/26/19 08:13	1634-04-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/26/19 08:13	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/26/19 08:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/26/19 08:13	108-67-8	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		11/26/19 08:13	1330-20-7	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/26/19 08:13	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/26/19 08:13	95-47-6	
Surrogates									
Dibromofluoromethane (S)	88	%	70-130		1		11/26/19 08:13	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		11/26/19 08:13	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/26/19 08:13	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

QC Batch: 341667 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40199835001, 40199835002, 40199835003, 40199835004

METHOD BLANK: 1984960 Matrix: Water
Associated Lab Samples: 40199835001, 40199835002, 40199835003, 40199835004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/25/19 13:41	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/25/19 13:41	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/25/19 13:41	
Benzene	ug/L	<0.25	1.0	11/25/19 13:41	
Ethylbenzene	ug/L	<0.22	1.0	11/25/19 13:41	
m&p-Xylene	ug/L	<0.47	2.0	11/25/19 13:41	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/25/19 13:41	
o-Xylene	ug/L	<0.26	1.0	11/25/19 13:41	
Toluene	ug/L	<0.17	5.0	11/25/19 13:41	
Xylene (Total)	ug/L	<1.5	3.0	11/25/19 13:41	
4-Bromofluorobenzene (S)	%	114	70-130	11/25/19 13:41	
Dibromofluoromethane (S)	%	83	70-130	11/25/19 13:41	
Toluene-d8 (S)	%	100	70-130	11/25/19 13:41	

LABORATORY CONTROL SAMPLE: 1984961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.1	102	75-140	
Benzene	ug/L	50	42.0	84	70-130	
Ethylbenzene	ug/L	50	59.7	119	80-124	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	33.1	66	54-137	
o-Xylene	ug/L	50	56.9	114	70-130	
Toluene	ug/L	50	54.7	109	80-126	
Xylene (Total)	ug/L	150	172	115	70-130	
4-Bromofluorobenzene (S)	%			119	70-130	
Dibromofluoromethane (S)	%			83	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985914 1985915

Parameter	Units	40199783014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	<0.28	50	50	53.3	53.4	107	107	75-140	0	20	
Benzene	ug/L	<0.25	50	50	42.5	42.6	85	85	70-130	0	20	
Ethylbenzene	ug/L	<0.22	50	50	59.9	59.4	120	119	80-125	1	20	
m&p-Xylene	ug/L	<0.47	100	100	114	112	114	112	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	33.7	34.4	67	69	51-145	2	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985914 1985915

Parameter	Units	40199783014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
o-Xylene	ug/L	<0.26	50	50	56.6	55.7	113	111	70-130	2	20	
Toluene	ug/L	<0.17	50	50	55.8	56.5	112	113	80-131	1	20	
Xylene (Total)	ug/L	<1.5	150	150	171	168	114	112	70-130	2	20	
4-Bromofluorobenzene (S)	%						117	117	70-130			
Dibromofluoromethane (S)	%						83	82	70-130			
Toluene-d8 (S)	%						105	102	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 5357 FORMER SCHLINSOG DAIRY
Pace Project No.: 40199835

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199835001	**MW1**	EPA 8260	341667		
40199835002	**MW2**	EPA 8260	341667		
40199835003	**MW3**	EPA 8260	341667		
40199835004	**MW6**	EPA 8260	341667		

Pace Analytical®
www.pacelabs.com

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

Page 1 of 1

40199885

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	Wausau
Project Contact:	Ryan Resch
Phone:	715-675-9784
Project Number:	5357
Project Name:	Former Schlinsog Dairy
Project State:	WI
Sampled By (Print):	Ryan Resch
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ryan Resch
Mail To Company:	REI
Mail To Address:	Rvresch@reiengineering.com
Invoice To Contact:	SAA
Invoice To Company:	
Invoice To Address:	1 QR
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO)	Y/N	PRESERVATION (CODE)*	Pick Letter	PVOC	1-2 DCA	VOC (524.2)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1	11/22/17	11:30	GW					X	X				
002	MW2		11:45						X	X				
003	MW3		11:00						X	X				
004	MW6		10:45						X	X				
005	Kautzer Well		12:15	DW							X			

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/22/17 3:??		
WAITCO	11/23/17 0920		11/23/17 0920

PACE Project No.
40199885

Receipt Temp = 1.2 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: RE1 Project # 40199185

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

Initial when completed: Date/ Time:

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

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

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40199835

40199835

Client Name: RE1

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

Tracking #: 2255496

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - ND **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr:

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

Person examining contents:
Date: 11/23/19
Initials: CM

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

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

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 11/24/19

DAVY LABORATORIES
A Division of Davy Engineering Co., Inc.
115 6th Street South
La Crosse, WI 54601
(608) 782-3130
www.davyinc.com

LABORATORY ANALYSIS REPORT

Pace Analytical-Green Bay
Attn: Brian Basten
1241 Bellevue St. Suite 9
Green Bay, WI 54302

Date: December 10, 2019
Client No: 11128

Sample No: 19K0809-01
Sample Site: Kautzer Well

Sample Collected: 22-Nov-19 12:15

Sample Received: 26-Nov-19 11:57

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Acetone	**<0.220**	**µg/L**	0.220	0.700	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Benzene	**<0.042**	**µg/L**	0.042	0.132	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Bromodichloromethane	**<0.067**	**µg/L**	0.067	0.214	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Bromoform	**<0.048**	**µg/L**	0.048	0.154	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Bromomethane	**<0.089**	**µg/L**	0.089	0.284	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Carbon disulfide	**<0.072**	**µg/L**	0.072	0.230	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Carbon tetrachloride	**<0.061**	**µg/L**	0.061	0.194	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Chlorobenzene	**<0.105**	**µg/L**	0.105	0.335	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Chlorodibromomethane	**<0.098**	**µg/L**	0.098	0.313	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Chloroethane	**<0.050**	**µg/L**	0.050	0.160	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Chloroform	**<0.057**	**µg/L**	0.057	0.182	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Chloromethane	**<0.335**	**µg/L**	0.335	1.06	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,2-Dibromo-3-chloropropane	**<0.051**	**µg/L**	0.051	0.162	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,2-Dibromoethane (EDB)	**<0.044**	**µg/L**	0.044	0.140	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Dibromomethane	**<0.053**	**µg/L**	0.053	0.167	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,2-Dichlorobenzene	**<0.077**	**µg/L**	0.077	0.243	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,3-Dichlorobenzene	**<0.055**	**µg/L**	0.055	0.176	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,4-Dichlorobenzene	**<0.090**	**µg/L**	0.090	0.287	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	

Submitted by:
Davy Laboratories

Jennifer M. Buchholz
Jennifer M. Buchholz, Laboratory Director

The laboratory analyses reported were determined in accordance with methods from approved authoritative sources. Approved authoritative sources are defined and listed within the respective state certification codes. The results are representative of the samples only; conditions can be expected to vary at different times and under different sampling conditions. This report may not be reproduced, except in full, without the written approval of the laboratory. WI Certification 632021390 and WI DATCP 105-216, MN NELAC Certification 055-999-151, IA Certification 304. Revision #2 -07/29/2019

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Division of Davy Engineering Co.

LABORATORY ANALYSIS REPORT

Pace Analytical-Green Bay
Attn: Brian Basten
1241 Bellevue St. Suite 9
Green Bay, WI 54302

Date: December 10, 2019
Client No: 11128

Sample No: 19K0809-01
Sample Site: Kautzer Well

Sample Collected: 22-Nov-19 12:15

Sample Received: 26-Nov-19 11:57

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
Dichlorodifluoromethane	**<0.139**	**µg/L**	0.139	0.442	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,1-Dichloroethane	**<0.042**	**µg/L**	0.042	0.135	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,2-Dichloroethane	**<0.071**	**µg/L**	0.071	0.226	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,1-Dichloroethene	**<0.065**	**µg/L**	0.065	0.206	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
cis-1,2-Dichloroethene	**<0.052**	**µg/L**	0.052	0.166	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
trans-1,2-Dichloroethene	**<0.064**	**µg/L**	0.064	0.203	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,2-Dichloropropane	**<0.066**	**µg/L**	0.066	0.210	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
cis-1,3-Dichloropropene	**<0.013**	**µg/L**	0.013	0.041	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
trans-1,3-Dichloropropene	**<0.018**	**µg/L**	0.018	0.059	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Ethylbenzene	**<0.064**	**µg/L**	0.064	0.204	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Methylene chloride	**<0.084**	**µg/L**	0.084	0.266	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Methyl Ethyl Ketone	**<0.258**	**µg/L**	0.258	0.820	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Methyl tert-Butyl Ether	**<0.900**	**µg/L**	0.900	2.86	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Naphthalene	**<0.171**	**µg/L**	0.171	0.545	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Styrene	**<0.090**	**µg/L**	0.090	0.288	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Tetrachloroethene	**<0.085**	**µg/L**	0.085	0.271	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Tetrahydrofuran	**<0.662**	**µg/L**	0.662	2.11	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Toluene	**<0.028**	**µg/L**	0.028	0.091	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	

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LABORATORY ANALYSIS REPORT

Pace Analytical-Green Bay
Attn: Brian Basten
1241 Bellevue St. Suite 9
Green Bay, WI 54302

Date: December 10, 2019
Client No: 11128

Sample No: 19K0809-01
Sample Site: Kautzer Well

Sample Collected: 22-Nov-19 12:15

Sample Received: 26-Nov-19 11:57

Parameter	Result	Units	LOD	LOQ/RL	Dilution	Prepared	Analyzed	Method	Qualifier
Laboratory Results									
1,1,1-Trichloroethane	**<0.048**	**µg/L**	0.048	0.154	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
1,1,2-Trichloroethane	**<0.129**	**µg/L**	0.129	0.410	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Trichloroethene	**<0.118**	**µg/L**	0.118	0.376	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Trichlorofluoromethane	**<0.052**	**µg/L**	0.052	0.166	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Vinyl chloride	**<0.019**	**µg/L**	0.019	0.060	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
m-Xylene/p-Xylene	**<0.068**	**µg/L**	0.068	0.218	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
o-Xylene	**<0.074**	**µg/L**	0.074	0.236	1	29-Nov-19 17:06	29-Nov-19 17:06	EPA 524.2 Rev. 4.1 1995	
Surrogate: 4-Bromofluorobenzene			*74.9 %*	*70-130*			*29-Nov-19 17:06*	*EPA 524.2 Rev. 4.1 1995*	
Surrogate: 1,2-Dichlorobenzene-d4			*74.7 %*	*70-130*			*29-Nov-19 17:06*	*EPA 524.2 Rev. 4.1 1995*	

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Blank (D19L029-BLK1)				Prepared & Analyzed: 29-Nov-19 15:40						
Acetone	ND	0.700	µg/L							
Benzene	ND	0.132	"							
Bromodichloromethane	ND	0.214	"							
Bromoform	ND	0.154	"							
Bromomethane	ND	0.284	"							
Carbon disulfide	ND	0.230	"							
Carbon tetrachloride	ND	0.194	"							
Chlorobenzene	ND	0.335	"							
Chlorodibromomethane	ND	0.313	"							
Chloroethane	ND	0.160	"							
Chloroform	ND	0.182	"							
Chloromethane	ND	1.06	"							

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Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Blank (D19L029-BLK1)				Prepared & Analyzed: 29-Nov-19 15:40						
1,2-Dibromo-3-chloropropane	ND	0.162	µg/L							
1,2-Dibromoethane (EDB)	ND	0.140	"							
Dibromomethane	ND	0.167	"							
1,2-Dichlorobenzene	ND	0.243	"							
1,3-Dichlorobenzene	ND	0.176	"							
1,4-Dichlorobenzene	ND	0.287	"							
Dichlorodifluoromethane	ND	0.442	"							
1,1-Dichloroethane	ND	0.135	"							
1,2-Dichloroethane	ND	0.226	"							
1,1-Dichloroethene	ND	0.206	"							
cis-1,2-Dichloroethene	ND	0.166	"							
trans-1,2-Dichloroethene	ND	0.203	"							
1,2-Dichloropropane	ND	0.210	"							
cis-1,3-Dichloropropene	ND	0.041	"							

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Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Blank (D19L029-BLK1)				Prepared & Analyzed: 29-Nov-19 15:40						
trans-1,3-Dichloropropene	ND	0.059	µg/L							
Ethylbenzene	ND	0.204	"							
Methylene chloride	ND	0.266	"							
Methyl Ethyl Ketone	ND	0.820	"							
Methyl tert-Butyl Ether	ND	2.86	"							
Naphthalene	ND	0.545	"							
Styrene	ND	0.288	"							
Tetrachloroethene	ND	0.271	"							
Tetrahydrofuran	ND	2.11	"							
Toluene	ND	0.091	"							
1,1,1-Trichloroethane	ND	0.154	"							
1,1,2-Trichloroethane	ND	0.410	"							
Trichloroethene	ND	0.376	"							
Trichlorofluoromethane	ND	0.166	"							

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Blank (D19L029-BLK1)				Prepared & Analyzed: 29-Nov-19 15:40						
Vinyl chloride	ND	0.060	µg/L							
m-Xylene/p-Xylene	ND	0.218	"							
o-Xylene	ND	0.236	"							
Surrogate: 4-Bromofluorobenzene	*3.73*		"	*5.00*		*74.5*	*70-130*			
Surrogate: 1,2-Dichlorobenzene-d4	*4.02*		"	*5.00*		*80.5*	*70-130*			
LCS (D19L029-BS1)				Prepared & Analyzed: 29-Nov-19 14:49						
Acetone	20.9372	0.700	µg/L	20.0		105	70-130			
Benzene	23.7716	0.132	"	20.0		119	70-130			
Bromodichloromethane	21.8636	0.214	"	20.0		109	70-130			
Bromoform	19.8688	0.154	"	20.0		99.3	70-130			
Bromomethane	21.8875	0.284	"	20.0		109	70-130			
Carbon disulfide	18.9483	0.230	"	20.0		94.7	70-130			
Carbon tetrachloride	23.7215	0.194	"	20.0		119	70-130			

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
LCS (D19L029-BS1)				Prepared & Analyzed: 29-Nov-19 14:49						
Chlorobenzene	23.446	0.335	µg/L	20.0		117	70-130			
Chlorodibromomethane	19.9899	0.313	"	20.0		99.9	70-130			
Chloroethane	21.4322	0.160	"	20.0		107	70-130			
Chloroform	24.1282	0.182	"	20.0		121	70-130			
Chloromethane	22.8094	1.06	"	20.0		114	70-130			
1,2-Dibromo-3-chloropropane	18.2701	0.162	"	20.0		91.4	70-130			
1,2-Dibromoethane (EDB)	21.5059	0.140	"	20.0		108	70-130			
Dibromomethane	21.3269	0.167	"	20.0		107	70-130			
1,2-Dichlorobenzene	22.5945	0.243	"	20.0		113	70-130			
1,3-Dichlorobenzene	22.4548	0.176	"	20.0		112	70-130			
1,4-Dichlorobenzene	21.8325	0.287	"	20.0		109	70-130			
Dichlorodifluoromethane	20.2681	0.442	"	20.0		101	70-130			
1,1-Dichloroethane	24.6368	0.135	"	20.0		123	70-130			
1,2-Dichloroethane	22.6487	0.226	"	20.0		113	70-130			

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Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
LCS (D19L029-BS1)				Prepared & Analyzed: 29-Nov-19 14:49						
1,1-Dichloroethene	22.3619	0.206	µg/L	20.0		112	70-130			
cis-1,2-Dichloroethene	21.8688	0.166	"	20.0		109	70-130			
trans-1,2-Dichloroethene	22.8757	0.203	"	20.0		114	70-130			
1,2-Dichloropropane	22.4626	0.210	"	20.0		112	70-130			
cis-1,3-Dichloropropene	21.0576	0.041	"	20.0		105	70-130			
trans-1,3-Dichloropropene	21.7511	0.059	"	20.0		109	70-130			
Ethylbenzene	23.2178	0.204	"	20.0		116	70-130			
Methylene chloride	23.5547	0.266	"	20.0		118	70-130			
Methyl Ethyl Ketone	16.9508	0.820	"	20.0		84.8	70-130			
Methyl tert-Butyl Ether	23.072	2.86	"	20.0		115	70-130			
Naphthalene	16.7239	0.545	"	20.0		83.6	70-130			
Styrene	20.9955	0.288	"	20.0		105	70-130			
Tetrachloroethene	23.505	0.271	"	20.0		118	70-130			
Tetrahydrofuran	17.6142	2.11	"	20.0		88.1	70-130			

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
LCS (D19L029-BS1)				Prepared & Analyzed: 29-Nov-19 14:49						
Toluene	22.4436	0.091	µg/L	20.0		112	70-130			
1,1,1-Trichloroethane	24.0281	0.154	"	20.0		120	70-130			
1,1,2-Trichloroethane	21.7487	0.410	"	20.0		109	70-130			
Trichloroethene	22.6059	0.376	"	20.0		113	70-130			
Trichlorofluoromethane	23.1318	0.166	"	20.0		116	70-130			
Vinyl chloride	20.5321	0.060	"	20.0		103	70-130			
m-Xylene/p-Xylene	22.9436	0.218	"	20.0		115	70-130			
o-Xylene	21.9898	0.236	"	20.0		110	70-130			
Surrogate: 4-Bromofluorobenzene	*5.21*		"	*5.00*		*104*	*70-130*			
Surrogate: 1,2-Dichlorobenzene-d4	*5.44*		"	*5.00*		*109*	*70-130*			
Duplicate (D19L029-DUP1)		**Source: 19K0755-01**		Prepared & Analyzed: 29-Nov-19 16:38						
Acetone	ND	0.700	µg/L		ND				200	
Benzene	ND	0.132	"		ND				200	

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Duplicate (D19L029-DUP1)		**Source: 19K0755-01**		Prepared & Analyzed: 29-Nov-19 16:38						
Bromodichloromethane	ND	0.214	µg/L		ND				200	
Bromoform	ND	0.154	"		ND				200	
Bromomethane	ND	0.284	"		ND				200	
Carbon disulfide	ND	0.230	"		ND				200	
Carbon tetrachloride	ND	0.194	"		ND				200	
Chlorobenzene	ND	0.335	"		ND				200	
Chlorodibromomethane	ND	0.313	"		ND				200	
Chloroethane	ND	0.160	"		ND				200	
Chloroform	ND	0.182	"		ND				200	
Chloromethane	ND	1.06	"		ND				200	
1,2-Dibromo-3-chloropropane	ND	0.162	"		ND				200	
1,2-Dibromoethane (EDB)	ND	0.140	"		ND				200	
Dibromomethane	ND	0.167	"		ND				200	
1,2-Dichlorobenzene	ND	0.243	"		ND				200	

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Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Duplicate (D19L029-DUP1)		**Source: 19K0755-01**		Prepared & Analyzed: 29-Nov-19 16:38						
1,3-Dichlorobenzene	ND	0.176	µg/L		ND				200	
1,4-Dichlorobenzene	ND	0.287	"		ND				200	
Dichlorodifluoromethane	ND	0.442	"		ND				200	
1,1-Dichloroethane	ND	0.135	"		ND				200	
1,2-Dichloroethane	ND	0.226	"		ND				200	
1,1-Dichloroethene	ND	0.206	"		ND				200	
cis-1,2-Dichloroethene	ND	0.166	"		ND				200	
trans-1,2-Dichloroethene	ND	0.203	"		ND				200	
1,2-Dichloropropane	ND	0.210	"		ND				200	
cis-1,3-Dichloropropene	ND	0.041	"		ND				200	
trans-1,3-Dichloropropene	ND	0.059	"		ND				200	
Ethylbenzene	ND	0.204	"		ND				200	
Methylene chloride	ND	0.266	"		ND				200	
Methyl Ethyl Ketone	ND	0.820	"		ND				200	

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Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Duplicate (D19L029-DUP1)		**Source: 19K0755-01**		Prepared & Analyzed: 29-Nov-19 16:38						
Methyl tert-Butyl Ether	ND	2.86	µg/L		ND				200	
Naphthalene	ND	0.545	"		ND				200	
Styrene	ND	0.288	"		ND				200	
Tetrachloroethene	ND	0.271	"		ND				200	
Tetrahydrofuran	ND	2.11	"		ND				200	
Toluene	ND	0.091	"		ND				200	
1,1,1-Trichloroethane	ND	0.154	"		ND				200	
1,1,2-Trichloroethane	ND	0.410	"		ND				200	
Trichloroethene	ND	0.376	"		ND				200	
Trichlorofluoromethane	ND	0.166	"		ND				200	
Vinyl chloride	ND	0.060	"		ND				200	
m-Xylene/p-Xylene	ND	0.218	"		ND				200	
o-Xylene	ND	0.236	"		ND				200	
Surrogate: 4-Bromofluorobenzene	*3.74*		"	*5.00*		*74.8*	*70-130*			

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Laboratory Results - Quality Control

Davy Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch D19L029 - Default Prep VOC										
Duplicate (D19L029-DUP1)		**Source: 19K0755-01**		Prepared & Analyzed: 29-Nov-19 16:38						
Surrogate: 1,2-Dichlorobenzene-d4	*3.95*		*µg/L*	*5.00*		*79.0*	*70-130*			

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Notes and Definitions

LOD Limit of Detection, adjusted for the dilution factor
LOQ/RL Limit of Quantitation/Reporting Limit, adjusted for the dilution factor
Total metals are equivalent to total recoverable metals.

Cooler Information

Temperature 0.10 °C	
Received on Ice	Yes
Required COC information completed	Yes
Sample labels match COC	Yes
All samples received in the appropriate containers	Yes
All samples received with sufficient volume	Yes
All samples received with sufficient holding time	Yes
All sample bottles received with H2SO4 were pH <2	No
All sample bottles received with HNO3 were pH <2	No
All sample bottles received with HCl were pH <2	No
All sample bottles received with NaOH were pH >12	No
All sample bottles for cyanide confirmed Sulfide absent	No
All sample bottles for cyanide confirmed Residual Cl absent	No
Preservation of VOC samples checked by the analyst.	
Preservation of FOG samples checked by the analyst.	
Residual Chlorine absent checked by the anlayst unless noted above.	

Case Narrative

APPENDIX C

POTABLE WELL ABANDONMENT FORMS

Wisconsin Department of Natural Resources

Well / Drillhole / Borehole Filling & Sealing **Form 3300-005**

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis. Stats., and ch. NR 141 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.

Date of Filling & Sealing: 01/14/2020 Rec #: 164022

Verification. Check only if well filling & sealing was done previously and you are just verifying that work.: No

1. Well Location Information

County: Clark		**WI Unique Well #:**		**DNR Hicap Well #:**	
Latitude: (DD.DDDDD°) 44.698 °N		**Longitude: (DD.DDDDD°)** 90.4763 °W		**GPS Method Code:** GPS008	
Gov't Lot #:	**Qtr/Qtr:**	**Quarter:**	**Section #:**	**Township #:** North	**Range #:**
Well Street Address: N7705 PELSDORF RD				**Subdivision Name:**	
Well City/Village/Town: Town of LOYAL		**Well Zip Code:**	**Lot #:**	**Does a new well replace this well?** No	
Reason for Filling & Sealing: WELL NOT NEEDED				**WI Unique Well # of Replacement Well:**	

2. Facility / Owner Information

Facility Name:	**FID #:**	**License/Permit/Monitoring #:**	
Original Well Owner:	**Service Category:**		
Present Well Owner: STEVEN KAUTZER	**Mailing Address of Present Owner:** N7705 PELSDORF RD		
	City: LOYAL	**State:** WI	**Zip Code:** 54446

3. Well / Drillhole / Borehole Information

Well Type: Water Well	**Original Construction Date:** (mm/dd/yyyy)	**Construction Type:** Drilled
Formation Type:	**Total Well Depth From Ground Surface (ft.):** 94.00	**(specify Other):**
Casing Diameter (in.): 5.00	**Lower Drillhole Diameter (in.):**	**Casing Depth (ft.):**
Was well annular space grouted?	**If yes, to what depth (ft.)?**	**Depth to Water (ft.):**

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

Pump and piping removed?	Yes	**Liner(s) removed?**	N/A	**If no, was liner perforated?**	
Screen removed?	N/A	**Casing/Loop left in place?**	N/A	**Was casing cut off below surface?**	Yes
Did sealing material rise to surface?	Yes	**Did material settle after 24 hours?**	No	**If yes, was hole retopped?**	
If bentonite chips were used, were they hydrated with water from a known water source?					Yes
Method of Placing Sealing Material: Screened & Poured (Bentonite Chips)				**(Explain Other):**	
Water Well Sealing Materials: Bentonite Chips				**Monitoring Wells & other Drillholes:**	

5. Material Used to Fill Well / Drillhole

Material:	From (ft.):	To (ft.):	# and Units of Sealant:	Mix Ratio or Mud Weight:
BENTONITE	Surface	94.00	20.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: THEODORE KOMAREK	License #: 7003	Phone: 715-767-5469
KOMAREK WELL DRILLING N1690 ST HWY 13 OGEMA WI 54459	Email Address: TEDKOMAREK5@GMAIL.COM	

8. DNR Use Only

Signed On: 01/16/2020	Submitted By: tedkomarek5	Received On: 01/16/2020	Approved On:

Wisconsin Department of Natural Resources

Well / Drillhole / Borehole Filling & Sealing Form 3300-005

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295 and 299, Wis. Stats., and ch. NR 141 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.

Date of Filling & Sealing: 01/14/2020 **Rec #: 164020**

Verification. Check only if well filling & sealing was done previously and you are just verifying that work.: No

1. Well Location Information

County: Clark		**WI Unique Well #:**		**DNR Hicap Well #:**	
Latitude: (DD.DDDDD°) 44.6981 °N		**Longitude: (DD.DDDDD°)** 90.4763 °W		**GPS Method Code:** GPS008	
Gov't Lot #:	**Qtr/Qtr:**	**Quarter:**	**Section #:**	**Township #:** North	**Range #:**
Well Street Address: N7705 PELSDORF RD				**Subdivision Name:**	
Well City/Village/Town: Town of LOYAL		**Well Zip Code:**	**Lot #:**	**Does a new well replace this well?** No	
Reason for Filling & Sealing: WELL NOT NEEDED				**WI Unique Well # of Replacement Well:**	

2. Facility / Owner Information

Facility Name:	**FID #:**	**License/Permit/Monitoring #:**	
Original Well Owner:	**Service Category:**		
Present Well Owner: STEVEN KAUTZER	**Mailing Address of Present Owner:** N7705 PELSDORF RD		
	City: LOYAL	**State:** WI	**Zip Code:** 54446

3. Well / Drillhole / Borehole Information

Well Type: Water Well	**Original Construction Date:** (mm/dd/yyyy)	**Construction Type:** Drilled
Formation Type:	**Total Well Depth From Ground Surface (ft.):** 185.00	**(specify Other):**
Casing Diameter (in.): 6.00	**Lower Drillhole Diameter (in.):**	**Casing Depth (ft.):**
Was well annular space grouted?	**If yes, to what depth (ft.)?**	**Depth to Water (ft.):**

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

Pump and piping removed?	Yes	**Liner(s) removed?**	N/A	**If no, was liner perforated?**	
Screen removed?	N/A	**Casing/Loop left in place?**	N/A	**Was casing cut off below surface?**	Yes
Did sealing material rise to surface?	Yes	**Did material settle after 24 hours?**	No	**If yes, was hole retopped?**	

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

Method of Placing Sealing Material: Screened & Poured (Bentonite Chips)	**(Explain Other):**
Water Well Sealing Materials: Bentonite Chips	**Monitoring Wells & other Drillholes:**

5. Material Used to Fill Well / Drillhole

Material:	From (ft.):	To (ft.):	# and Units of Sealant:	Mix Ratio or Mud Weight:
BENTONITE CHIPS	Surface	185.00	56	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: THEODORE KOMAREK	**License #:** 7003	**Phone:** 715-767-5469
KOMAREK WELL DRILLING N1690 ST HWY 13 OGEMA WI 54459	**Email Address:** TEDKOMAREK5@GMAIL.COM	

8. DNR Use Only

Signed On: 01/16/2020	**Submitted By:** tedkomarek5	**Received On:** 01/16/2020	**Approved On:**