

708 Heartland Trail Suite 3000 Madison, WI 53717

608-826-3600 PHONE 608-826-3941 FAX

www.TRCsolutions.com

April 16, 2019

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

Subject: Supplemental Vapor Intrusion Assessment - Soil Gas Investigation at Well W40

Wauleco, Inc., Wausau, Wisconsin

BRRTS #02-37-000006

Dear Mr. Thompson:

On behalf of Wauleco, Inc., (Wauleco), TRC Environmental Corporation (TRC) is submitting this Supplemental Vapor Intrusion Assessment - Soil Gas Investigation Report for the Wauleco site in Wausau, Wisconsin. The location of the site is shown on Figure 1.

Background

In June 2012, TRC provided the Wisconsin Department of Natural Resources (WDNR) with a Vapor Intrusion Risk Screening Level Assessment¹ (VI Assessment) concluding that there were no potentially complete vapor intrusion pathways associated with the Wauleco site based on the site conditions present at that time.

Following the initial VI Assessment, free product² has been sporadically observed in off-site monitoring well W40 on a few occasions. Based on this site condition, the WDNR requested an update to the VI Assessment for the site. The WDNR's current vapor intrusion guidance³ recommends additional assessment of the vapor intrusion pathway when free product containing petroleum hydrocarbons is present within 15 feet (vertically) of a building foundation.

On January 15, 2019, a Soil Gas Investigation Workplan⁴ was submitted to the WDNR, which described the rational and sampling methods for the supplemental VI Assessment.

¹ TRC, 2012. Vapor Intrusion Risk Screening Level Assessment. Wauleco, Inc., 125 Rosecrans Street, Wausau, Wisconsin. June 14, 2012.

² The terms free product and mobile light non-aqueous phase liquid (LNAPL) are synonymous. Free product is used here for consistency with the term used in WDNR's Vapor Intrusion guidance.

WDNR, 2018. Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin. RR-800. January 2018.

⁴ TRC, 2019. Supplemental Vapor Intrusion Assessment - Soil Gas Investigation Workplan at Well W40. Wauleco, Inc., Wausau, Wisconsin. January 15, 2019.

Mr. Matt Thompson Wisconsin Department of Natural Resources April 16, 2019 Page 2

The workplan described the means, methods and rationale for conducting a soil gas investigation at monitoring well W40 and received WDNR verbal approval on February 7, 2019.

Current Site Conditions

2018 Annual Report Findings

The sporadic observation of free product off-site has been limited to well W40. In July 2017, 0.04 feet of free product was detected in W40 and depth to groundwater was approximately 18.5 feet from ground surface.

February 2019 Conditions

Prior to collecting the soil gas samples, the depth to water and evaluation for free product were measured in W40. On February 21, 2019, 0.02 feet of free product was present in W40 and the depth to groundwater was approximately 19.5 feet from ground surface.

The presence of free product in W40 on the day of sampling is important because this demonstrates the results from the soil gas sampling will be representative of worst-case conditions and allows definitive conclusions to be drawn as to whether the site can support aerated soil conditions when free product is present.

Weather Conditions

The sampling was scheduled for winter to allow soil gas to be collected while the surface was frozen (i.e., frost was observed to approximately 2-feet below ground surface on February 14, 2019; see boring log in Attachment A). This is the worst-case seasonal condition because there is less connection between the soil and the atmosphere when the ground is frozen. As with the presence of free product noted above, results from soil gas sampling collected in winter are generally representative of worst-case conditions and allows definitive conclusions to be drawn as to whether the site can support aerated soil conditions. The weather leading up to and the day of the soil gas sampling was consistently below freezing with several snow events and the ground had been frozen for months.

Scope of Work

On February 14, 2019, TRC oversaw the installation of two soil gas probes (SG1A and SG1B) in the right-of-way near W40 (Figure 2). TRC's Geoprobe®, subcontractor, On-Site Environmental, installed the two soil gas probes in accordance with the Workplan. The soil boring log and soil gas probe construction diagrams are included in Attachment A.



Mr. Matt Thompson Wisconsin Department of Natural Resources April 16, 2019 Page 3

The soil gas probes were set at depths of approximately 9 feet and 16 feet below ground surface (bgs). Probe SG1A was set at 9 feet bgs to be at a depth adjacent, but below the depth of a typical basement, and probe SG1B was set at 16 feet bgs to be representative of the soil gas conditions in the so-called "smear zone" above the water table.

The soil gas probes were sealed at the surface (the borehole was sealed with bentonite and the tubing was clamped shut). TRC returned to the site seven days later, on February 21, 2019, to complete the soil gas sampling. This allowed the monitoring probes to stabilize with the subsurface conditions. Weather between February 14th and 21st was very cold with several snow events.

TRC calculated the purge volume for each probe and used the LandTec 2000 Soil Gas Analyzer (LandTec) to purge three well volumes from each location following leak testing. The soil gas samples were field analyzed throughout the purging process with the LandTec for oxygen (O₂), methane (CH₄), carbon dioxide (CO₂), and lower explosive limit (LEL). Field sampling logs are included in Attachment B.

The soil gas probes were abandoned on March 28, 2019, abandonment forms are included in Attachment C.

Results

The CO₂, CH₄, and LEL, and O₂ levels measured after three air volumes were purged from each probe are summarized in Table 1. The results are compared to the aerated soil indicator parameters listed in WDNR's VI Guidance.

The results show that aerated soil gas conditions are present at both sample depths. The results from SG1A (9 feet bgs) show saturated oxygen conditions in the shallow zone approximately 10 feet above the water table; the results from SG1B (16 feet bgs) show a slight depletion in oxygen (but still aerated) and an increase in carbon dioxide in the deeper "smear zone" just above the water table. This pattern aligns with the conceptual model of what one would expect to see with petroleum hydrocarbon impacts in groundwater.

Conclusions and Recommendations

The soil gas sampling results demonstrate that the subsurface is very well aerated throughout the soil column near W40. Therefore, the vapor intrusion pathway from petroleum hydrocarbons can be ruled out at this location and no further investigation is recommended for the vapor intrusion pathway.



Mr. Matt Thompson Wisconsin Department of Natural Resources April 16, 2019 Page 4

If you have any questions or comments regarding this information, please call Bruce Iverson at (608) 826-3644.

Sincerely,

TRC Environmental Corporation

Bruce Iversøn, P.E. Project Manager

Alyssa Sellwood, P.E. Senior Project Engineer

Attachments: Figure 1 – Site Locator Map

Figure 2 – Soil Gas Probes Location Map

Table 1 – Soil Gas Sampling Results – February 21, 2019

Attachment A – Soil Gas Probe Boring Logs Attachment B – Soil Gas Data Field Log

Attachment C – Soil Gas Probe Abandonment Forms

cc: Evan Schreiner – Wauleco, Inc. (2 copies)

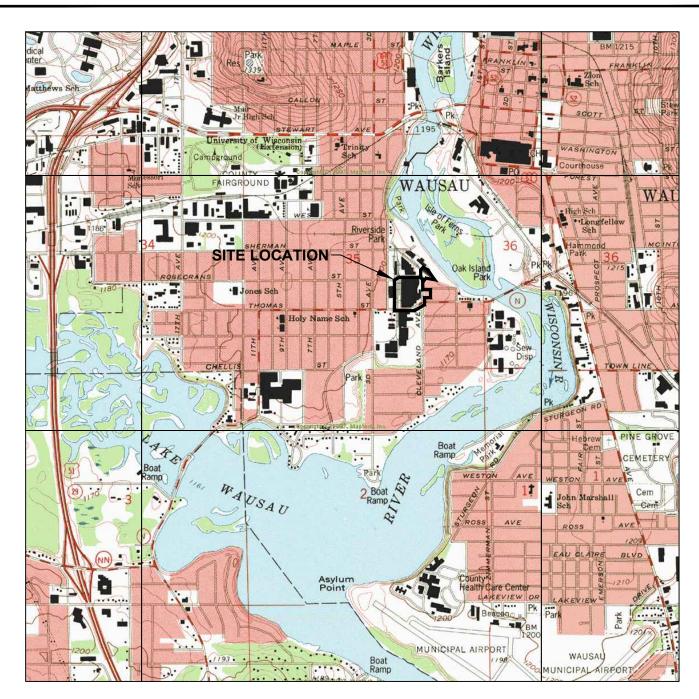
David Crass – Michael Best & Friedrich, LLP (1 copy)

Tom Dushek – TRC Wauleco (1 copy)

Ken Quinn – TRC (1 copy)



Figures



NOTE

BASE MAP DEVELOPED FROM THE WAUSAU WEST AND WAUSAU EAST, WISCONSIN 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAPS, DATED 1993. PART OF SECTION 35, T29N, R8E



QUADRANGLE LOCATION

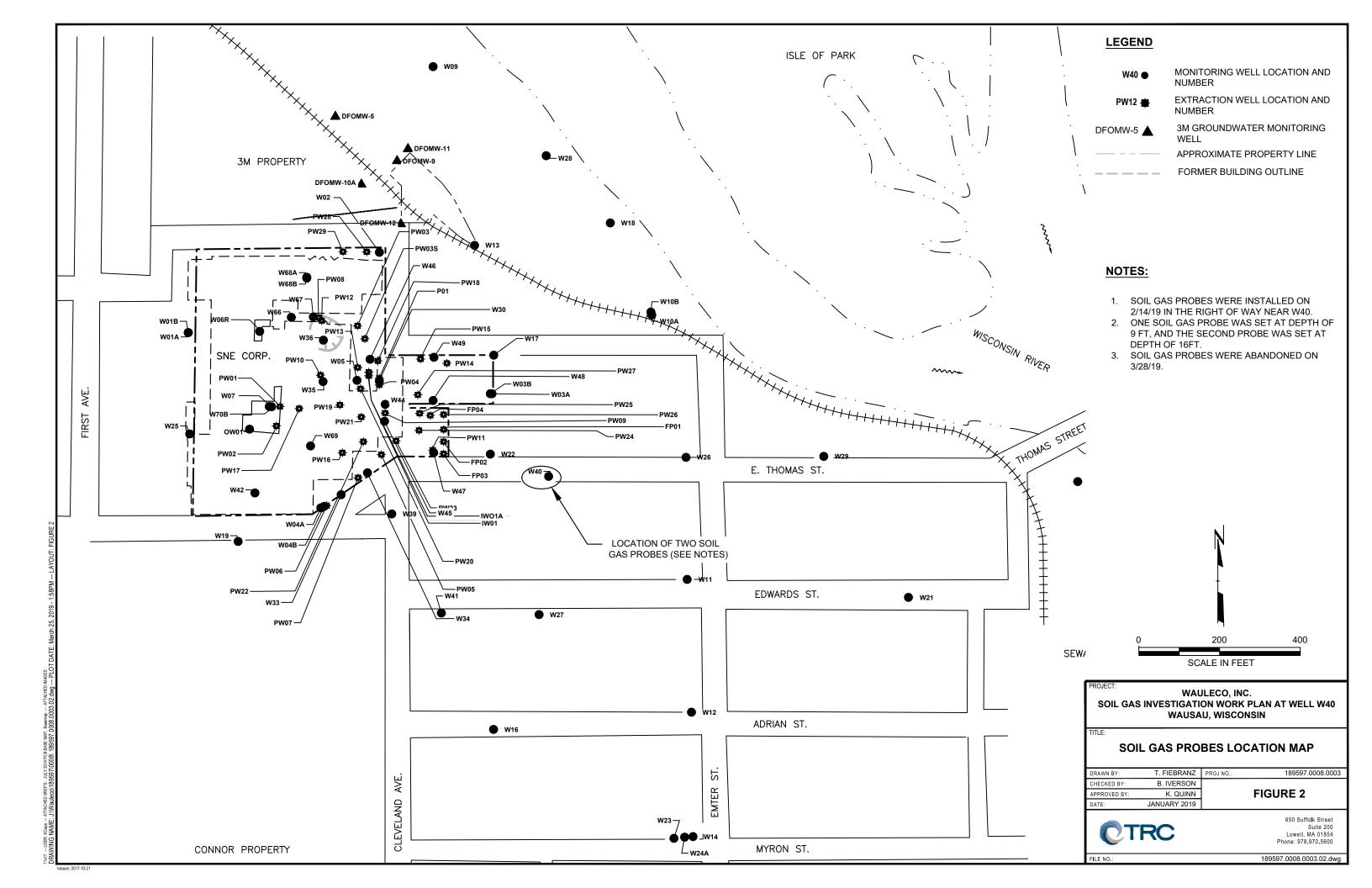


708 Heartland Trail Suite 3000 Madison, WI 53717 Phone: 608.826.3600 PROJECT: WAULECO, INC.
125 ROSECRANS STREET
WAUSAU, WISCONSIN

TITLE:

SITE LOCATION MAP

	FIGURE 1
FILE:	189597.0008.01.FIG1.dwg
PROJ. NO.:	189597
DATE:	MARCH 2019
APPROVED BY	: B. IVERSON
CHECKED BY:	K. QUINN
DRAWN BY:	B. YUNUSOV



Table

Table 1 Soil Gas Sampling Results - February 21, 2019 Wauleco, Inc. Wausau, Wisconsin

SAMPLE ID	DEPTH (ft)	O_2	CO ₂	CH₄	% LEL
SG1A	9	20.2%	1.9%	0.0%	1%
SG1B	16	12.5%	5.0%	0.1%	2%
Indicator of A	erated Soil	≥ 5%	Low Levels	< 1%	< 10%

Notes:

- 1. Data was collected and analyzed in the field using a LandTec 2000 Soil Gas Analyzer.
- 2. Summarized results are those collected after purging three volumes from each soil gas probe.

Prepared By: A. Sellwood 3/20/19 Checked By: K. Quinn 3/21/19

Attachment A Soil Gas Probe Boring Logs

State of Wisconsin Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro		Wastewater □ n/Redevelopment ⊠	Waste 1 Other	_	ement									
													Pag		of	1	
-	y/Projeculeco,		ne			License/	Permit/	Monito	ring Nu	ımber		Boring	Numbe	sr SG	1R		
			Name o	of crew chief (first, last)	Date Dri	ate Drilling Started Date Drilling				ng Con	npleted	50		ing Method			
	apugi			. 10		2/1/	/ 2 010			,	2/1/4/2	010			1		
	Site E			DNR Well ID No.	Common Well Name	Final Sta		/2019 er Leve	1	Surfac	e Elevat	2/14/2 tion	2019	Во	Geoprobe orehole Diameter		
,,,,	ique						Feet N				Fee	t MSI				inches	
Local (State)	Grid Or	rigin		stimated: \square) or Boundary 06855 N, 2063327		La	t	0	,	"	Local C	irid Loc					
State	1/4	of		1/4 of Section ,	T N, R	Long		0	,	"		Feet	□ N □ S		1	□ E Feet □ W	
Facilit		-		County		County Co		Civil To		ty/ or V	Village						
Q	1 .			Marathon		37		Waus	au		T	0 - 1	D			<u> </u>	
San	•			G-:1/	Daala Daariintian								Prope	rties			
	tt. & d (in	ınts	Feet		Rock Description Geologic Origin For						ive					S	
ber 「ype	th A	Ω̈́	h In		ach Major Unit		CS	hic	ram	E	press gth	ture	t id	icity «	0	nen1	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet				O S O	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
1 GP			_	TOPSOIL													
Gr 🗏			_2	to medium grained, so	SAND WITH SILT (SI me silt, trace gravel, stror frozen 0 to 2 feet bgs the	ng brown											
			_ 4				SP-SM										
GP	60		<u>-</u> 6	sand with silt, as above	e, no odor, moist.												
			- 8	WELL GRADED SA trace gravel, light brow	ND (SW), fine to coarse on (7.5YR 6/3), no odors,	grained, moist.	sw										
1			10	coarse grained sand, so	SAND WITH GRAVE ome fine to coarse gravel, 7.5YR 6/3), no odors, mo	trace	SP										
4 ====================================	60		14 					, , , , , , , , , , , , , , , , , , , ,									
			-18 -20	grained, some silt, vermoist. WELL GRADED GI coarse grained gravel,	SAND WITH SILT (SI y dark gray (7.5YR 3/1), 1 RAVEL WITH SAND(C some fine sand, strong br	GW), fine to rown	SP-SM GW		▼								
			20	bgs. Boring terminated at 2 *Soil gas probe installe	ed to 16.4 feet bgs using s	stainless											
				details.	tubing. See construction												
	-	y that	the info	ormation on this form is	In:												
Signat		noma	s Dus	shek		RC Enviro Reartland										608-826-3600 608-238-7156	

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



SOIL GAS SAMPLE POINT CONSTRUCTION DIAGRAM

PROJ. NAME: Wauleco		POINT ID: SG 1A
PROJ. NO: 18959	7.00 DATE INSTALLED: 2/14/2019	INSTALLED BY: T. Kapugi (ONSITE) CREATED T. Duschek CHECKED BY: A. Stehn
ELEVATION	DEPTH BELOW OR ABOVE	SAMPLE POINT DETAILS
(BENCHMARK: USGS)	GROUND SURFACE (FEET)	MATERIAL: <u>TEFLON TUBING</u>
─ ↑ 	0.0 GROUND SURFACE 0.5 CONCRETE	TUBING SIZE: <u>1/4" OD</u>
	1.0 SAND	SCREEN TYPE: 6" STAINLESS STEEL IMPLANT SCREEN MATERIAL WIRE MESH
	1.0 TOP OF BENTONITE SEAL	BOREHOLE DIAMETER: 2.5 IN. FROM 2 TO 10 FT.
O.6 O.6 BELOW GRADE TUBING LENGTH		SURF. CASING DIAMETER: 4 IN. FROM 0 TO 10 IN.
		SUBSURFACE CONDITIONS:
BELO		Ground was frozen to 2 ft bgs.
	SEAL MATERIAL GRANULAR BENTONITE 7.7 BOTTOM OF BENTONITE SEA	Subsurface is fine grain sand and silt with trace gravel.
	9.0 TOP OF SCREEN	
	FILTER PACK MATERIAL	
SCREENI	MEDIUM, WASHED SAND	CONSTRUCTION NOTES:
\	9.5 BOTTOM OF SCREEN	Tubing extends 18-inches above grade to facilitate connection to sampling instrument. Tubing is closed to atmosphere by clamps.
	10.0 BOTTOM OF FILTER PACK	
	NA BENTONITE PLUG	
	BACKFILL MATERIAL	
	NA	PROTECTIVE COVER DETAILS
	10.0 HOLE BOTTOM	PERMANENT, LEGIBLE LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER INSTALLED?

✓ YES □ NO



©TRC SOIL GAS SAMPLE POINT CONSTRUCTION DIAGRAM

PROJ. NAME: Wauleco)	POINT ID: SG 1B
PROJ. NO: 18959	7.00 DATE INSTALLED: 2/14/2019	INSTALLED BY: T. Kapugi (ONSITE) CREATED T.Dushek BY:
1 103. NO. 10939	7.00 DATE INSTALLED. 2/14/2019	CHECKED BY: A.Stehn
ELEVATION	DEPTH BELOW OR ABOVE	SAMPLE POINT DETAILS
(BENCHMARK: USGS)	GROUND SURFACE (FEET)	MATERIAL: <u>TEFLON TUBING</u>
		TUBING SIZE: 1/4" OD
│	0.0 GROUND SURFACE	
	0.5 CONCRETE	
[]	1.0 SAND	SCREEN TYPE: 6" STAINLESS STEEL IMPLANT SCREEN MATERIAL WIRE MESH
	1.0 TOP OF BENTONITE SEAL	BOREHOLE DIAMETER: 2.5 IN. FROM 2 TO 20 FT.
6.5T BELOW GRADE TUBING LENGTH		SURF. CASING DIAMETER: 4 IN. FROM 0 TO 10 IN.
15.9		
MOT:		SUBSURFACE CONDITIONS:
8		Ground was frozen to 2 ft bgs.
		Subsurface is fine grain sand and silt with trace gravel.
	SEAL MATERIAL	
→	GRANULAR BENTONITE	
	14.7 BOTTOM OF BENTONITE SE	
│ <u></u>	15.9 TOP OF SCREEN	
HT GTH	FILTER PACK MATERIAL	
	MEDIUM, WASHED SAND	CONSTRUCTION NOTES:
SCREEN	,	
│┡ │	16.4 BOTTOM OF SCREEN	Tubing extends 18-inches above grade to facilitate connection to sampling instrument. Tubing is closed to atmosphere by clamps.
	20.0 BOTTOM OF FILTER PACK	
	NA BENTONITE PLUG	
	BACKFILL MATERIAL	
	NA	PROTECTIVE COVER DETAILS
	20.0 HOLE BOTTOM	PERMANENT, LEGIBLE LABEL ADDED?
		PROTECTIVE COVER INSTALLED?

Attachment B Soil Gas Data Field Log



	Well	IID				Personnel	Tom Dushek		
	Date				19	Total Well Depth (ft)	Filter Pack - 7.7 to 10 ft		
	Site Probe			SGIA		Top of Screen (ft btoc)	9.0 F+		
	Depth to Pr					Screen Length (ft)	le inches		
	Depth to V	Vater (ft)				Open Screen Length (ft)	I volume = 4.8 min @ 200cc/min		
	Product Thi	ckness (ft)				Equipment	LandTec 2000 Soil Gas Analyzer		
Time (min)	Temp (deg. C)	CH ₄ (% v/v)	CO ₂ (% v/v)	O₂ (% v/v)	% LEL		Notes or Comments		
1		0	1.9	19.8	1	Outside To	imp 20° F		
2		0	1.9	19.9					
3		9	1.9	19,9	1				
4		0.1	1.9	20.0	1				
5		0.1	1.9	20.0	1	Ivolune			
6		0.1	1.9	20.0	1				
7		0.1	1.9	20.0					
8		0.1	1.9	20.1	1				
9		0	1.9	20.1					
10		0	1.9	20.1	1	2 volumes			
11		0	1,9	20.2					
12		0	1.9	20.2	1				
13		0.1	1.9	20.2	1				
514		0	1.9	20.2	1				
15		D	1.9	20.2		3 Volumes			
16									
17									
18									
19									
20				STATE OF					
21				No.					
22									
23									
24									
25			1 4						

*Record measurements in units listed on form

Initial_____ Date____

Page / of /



Page 1

Time

	Neighbor	Wel	IID		W40		Personnel	Tom Dushek		
	Date				2/21/19	ì	Total Well Depth (ft)	Filter Pack - 14.7 to 20 Ft		
	Site Probe			2	SGIB		Top of Screen (ft btoc)	15.9 F+		
	WHO	Depth to P	roduct (ft)		18.95		Screen Length (ft)	6 inches		
	WHO	Depth to V	Vater (ft)		18.97		Open Screen Length (ft)	1 volume = 10.8 min @ 200 cc/min		
-1	MYO	Product Thi	ckness (ft)		0.02	managed to	Equipment	LandTec 2000 Soil Gas Analyzer		
ie !	Time (min)				O₂ (% v/v)	% LEL		Notes or Comments		
13 1			0.1	3.5	16.1	1	outside Ta	emp 200 F		
2			0.1	3,7	15.4	2				
3			0.1	3.8	15.5	2				
4			0.1	3.8	15.3	2				
5			0.1	3.9	15.3	2				
6			0.1	4:1	14.5	2				
7			0.1	4.1	14.6	2				
8			0.1	4.0	15.0	2				
9			0.1	4.2	14,4	2				
124 10			0,1	4.1	14.8	2				
11			0.1	4,1	14.7	2	1 volume			
12	,		0.1	4,2	14.4	2				
13			0.1	4.5	13.9	2				
14			0.1	4.4	14.0	2				
15			0.1	3,9	15,4	2				
16			0.1	4.0	15.2	2				
17			0.1	3.9	15.7	2				
18			0.1	3.9	15.6	2				
19			0.1	4.0	15.1	82				
13420			0.1	4.2	14.8	2				
21			0.1	4.3	14.3	2	0 1			
22			0-1	4.5	13.8	2	2 volumes			
23					13.9	2				
24			0.1	4.5	13,9	2.				

*Record measurements in units listed on form

Page 1 of 2



		Wel	IID				Personnel	
		Da	te				Total Well Depth (ft)	
	Site Probe-				SGIB		Top of Screen (ft btoc)	
							Screen Length (ft)	
		Depth to V	Water (ft)				Open Screen Length (ft)	
2		Product Thi	ickness (ft)	200			Equipment	LandTec 2000 Soil Gas Analyzer
ine	Time (min)	Temp (deg. C)	CH ₄ (% v/v)	CO ₂ (% v/v)	O ₂ (% v/v)	% LEL		Notes or Comments
1			0.1	4.3	14.3	2		
2			0.1	4.3	14.5	2		
3			0.1	4.1	15.0	2		
4			0.1	4.4	13.9	2		
1444 5			0.1	4.8	13.0	2		
6			0.1	5.0	12.4	2		
7			0.1	5.1	12.2	2		
14478			0.1	5.0	12.5	2	3 volumes	
9								
10								
11								
12								
13								
14								
15	No.	The Chief						
16								
17								
18								
19								
20								
21								
22				1				
23								
24								
25								

*Record measurements in units listed on form

Initial_____ Date____

Page 2 of 2

Attachment C Soil Gas Probe Abandonment Forms

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

Route to DNR Bureau:

☐ Verification Only	of Fill and S	eal		rinking Water		Watershed/W	/astewater	Remedi	iation/Redevelopment		
			V	Vaste Manageme		Other:			D055		
1. Well Location Infor County	mation WI Unique Wel	l # of	Hicap #		2. Facility Facility Nam	/ Owner Inf	ormation				
	Removed Well	1 # 01	I licap #								
Marathon					Facility ID (F	ID or PWS)					
Latitude / Longitude (see in 44, 948755	nstructions)	t Code DD	Method Code GPS008	73	70638						
-89.63374			DDM	SCR002	License/Peri	mit/Monitoring	#				
1/4/1/4 NW 1/4 S	E Section	n To	wnship	Range E	Original Wel	Owner					
or Gov't Lot #	3	5	29 N	07 W		uleco					
Well Street Address					Present Well	Owner					
127 E. Thomas	s Stree	+			Wa	.uleco					
Well City, Village or Town			Well	ZIP Code		ess of Presen					
Wausau			54	401	180	ent Owner	Point Dr	ive	Tain o		
Subdivision Name			Lot #					State	ZIP Code		
						ens Poi			54481		
Reason for Removal from		Jnique We	ell # of Re	placement Well		Inter, Scree d piping remov	en, Casing & Se		Yes No N/A		
Street Construc					Liner(s) re		· cu :		Yes No No		
3. Filled & Sealed Wel					Liner(s) po				Yes No No		
✓ Monitoring Well	Original		2019	(mm/dd/yyyy)	Screen re			=	Yes No N/A		
Water Well					Casing left in place?						
Borehole / Drillhole	If a We		tion Repo	ort is available,	Was casir	Was casing cut off below surface? ✓ Yes □ No □ N/A					
Construction Type:	piodoo					Did sealing material rise to surface? Yes ✓ No N/A					
	Driven (Sandpoi	at)	Dug	,		Did material settle after 24 hours? ☐ Yes ▼No ☐ N/A					
Other (specify): Dire		11.)		9	If yes, was hole retopped? ☐ Yes ☐ No ✓ N/A						
Formation Type:	5011 4011						used, were they hy	drated	Yes No N/A		
	atlan	□ Bad	en ale		TOWN NO. OF THE PERSON	The second second second	n safe source?		165 110 11/7		
Unconsolidated Form		Bed		- (:-)			ng Sealing Materia		and		
Total Well Depth From Gro	ound Surface (ft.	Casing	Diamete	r (in.)		ctor Pipe-Grav ned & Poured		or Pipe-Pump	jed		
10			1		(Bento	nite Chips)	Other (E)	(plain):			
Lower Drillhole Diameter (i	in.)	Casing	Depth (fi	1.)	Sealing Mate		_				
2					Neat C	ement Grout		Concrete			
Was well annular space gro	outed?	Yes	No	Unknown	-	Cement (Cond	-	Bentonite			
				OHKHOWH	For Monitorii		Monitoring Well Bo				
If yes, to what depth (feet)	?	epth to Wa	ter (feet)			nite Chips	Ben	tonite - Ceme	ent Grout		
					✓ Granul	ar Bentonite		tonite - Sand	Slurry		
5. Material Used to Fil	ll Well / Drillh	ole			From (ft.)	To (ft.)	No. Yards, Sack Volume (circ		Mix Ratio or Mud Weight		
Granular Bentonite					Surface	10	8#	ne one)	Wad Weight		
6. Comments											
SG 1A	+										
7. Supervision of Wor								DNR Use	Only		
Name of Person or Firm D		aling Li	cense #	Date of F	illing & Sealing	or Verificatio	n Date Received		Noted By		
On-site Environmen	ntal Services	, Inc.		(mm/dd/y					100		
Street or Route				T	elephone Num	nber	Comments				
PO Box 280					608) 837						
City		State		Code		Person Doing	Work	Da	te Signed		
Sun Prairie		W		53590	Anthor	ny R. Kapugi			4/4/2019		

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

		Ro	oute to DNR Bureau							
Verification Only of Fi	II and Seal		Drinking Water		Watershed/Wastewater ✓ Remediation/Red					
vermoution only or r	ii uiia ooai		Waste Manageme	ent 🗍	Other:					
1. Well Location Information	on		COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	2. Facility	/ Owner Info	ormation	10000			
County WI U	nique Well # of	Hic	ap#	Facility Nam						
Marathon	oved Well			Wa	uleco					
			1. 114-11-1-0-1-	Facility ID (F						
Latitude / Longitude (see instruct		rmat Co	de Method Code GPS008	73	370638	100				
44,948755	N	DD	SCR002		mit/Monitoring					
- 89. 633728	w	DDN								
1/4/1/4 NW 1/4 SE	Section	Townsh	nip Range X E	Original Wel	Owner					
or Gov't Lot #	35	29	N O7 W	Wa	where					
Well Street Address				Present Wel	Owner					
127 E. Thomas	Street			Wa	wleco					
Well City, Village or Town	211001		Well ZIP Code	Mailing Addr	ess of Present	t Owner				
Wausau			54401	180	00 N.	Point Dr	ive			
Subdivision Name			Lot #	City of Prese			State	ZIP Code		
				Stev	iens Poi	nt	WI	54481		
Reason for Removal from Service	e WI Unique	Well #	of Replacement Well			n, Casing & S	ealing Mat	erial		
Street Construction				Pump and	d piping remove	ed?		Yes No N/A		
3. Filled & Sealed Well / Dr		hole In	formation	Liner(s) re	emoved?			Yes No N/A		
			Date (mm/dd/yyyy)	Liner(s) p	erforated?			Yes No N/A		
Monitoring Well	2/	14/20	19	Screen removed?						
Water Well	W = MW = II O = = =		D1'"	Casing left in place? ✓ Yes No N/						
Borehole / Drillhole	please attach		Report is available,	Was casin	ng cut off below	w surface?	V	Yes No N/A		
Construction Type:	product ditas.				g material rise			Yes No N/A		
_	(Sandpoint)		Dug	Did material settle after 24 hours?						
	2 7		Judg		, was hole reto			Yes No N/A		
Other (specify): Direct Pu	1511			If bentoni	te chips were u	used, were they h	nydrated			
Formation Type:	_			with wate	r from a known	safe source?	<u> </u>	Yes No N/A		
✓ Unconsolidated Formation		Bedrock		Required Me	ethod of Placin	g Sealing Materi	al			
Total Well Depth From Ground S	Surface (ft.) Ca	sing Dia	meter (in.)	Condu	ctor Pipe-Grav	rity Conduc	tor Pipe-Pum	ped		
20			1	Screen	ned & Poured inite Chips)	Other (E	Explain):			
Lower Drillhole Diameter (in.)	Ca	sing Dep	oth (ft.)	Sealing Mat	7					
		g	()		ement Grout		Concrete	9		
2					Cement (Conc	rete) Grout	Bentonite			
Was well annular space grouted?	Ye	es X	No Unknown							
If yes, to what depth (feet)?	Depth to			- I or wormon		Monitoring Well E	ntonite - Cen			
in yes, to what depth (leet):	Берито	**ato (nite Chips					
				✓ Granu	ar Bentonite		ntonite - San			
5. Material Used to Fill We	II / Drillhole			From (ft.)	To (ft.)	No. Yards, Sacl Volume (cir		Mix Ratio or Mud Weight		
Granular Bentonite				Surface	10	8#		mad Weight		
Statistial Domonito						Oir				
6. Comments		ST. C.	STATE OF STATE OF		CHALLES TO		TO VOLUM	THE ROLL OF THE		
SGIB		200								
7. Supervision of Work	illing 9 Castin	l le es	Data of F	illing 9 Cool's	ar Verification	Doto Dasa'	DNR Use			
Name of Person or Firm Doing F	77	Licens		161	or Verification	n Date Receive	u	Noted By		
On-site Environmental S	services, inc		(mm/dd/y		-102	Commercia				
Street or Route				elephone Nun		Comments				
PO Box 280	- Iz	Otat-	IZID Code	608) 837	Person Doing	Mork	15	oto Cianad		
City Sun Prairie		State	ZIP Code 53590		ny R. Kapuai	VVOIN	Di	ate Signed 4/4/2019		