









# Wisconsin Department of Natural Resources

Attn: Ms. Gina Keenan 1300 W Clairemont Avenue Eau Claire, WI 54701

#### Subject:

Soil Excavation Report OW Sport & Liquor 107 Central Avenue Owen, WI BRRTS #03-10-182097 PECFA #54460-0147-07

#### Dear Ms. Keenan:

Enclosed is the Soil Excavation Report for the above-mentioned site. REI has completed the approved soil excavation scope of services and removed the underground petroleum tank system.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at <a href="mailto:dlarsen@reiengineering.com">dlarsen@reiengineering.com</a>.

Sincerely,

REI Engineering, Inc.

David N. Larsen, P.G. Senior Hydrogeologist

Enclosure

CC: Jackie Reinke, OW Sport & Liquor, PO Box 147, Owen, WI 54460

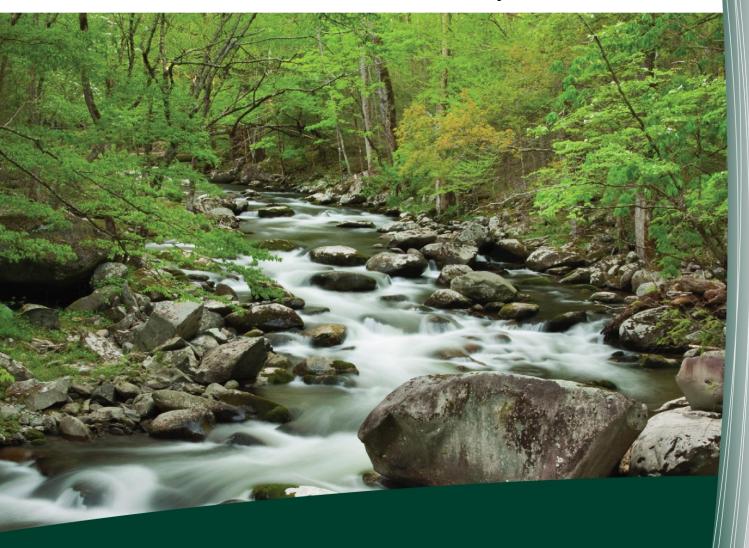




# SOIL EXCAVATION REPORT OW SPORT & LIQUOR OWEN, WISCONSIN

WDNR BRRTS #03-4910-182097 PECFA #54460-0147-07

**REI Project #71687** 



COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS



# **SOIL EXCAVATION REPORT**

OW SPORT & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

### **REI #1687**



#### PREPARED FOR:

OW Sports & Liquor Attn: Ms. Jackie Reinke PO Box 147 Owen, WI 54460

FEBRUARY 2018

## SOIL EXCAVATION REPORT

OW SPORT & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

#### **REI** #1687

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

"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



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

Environmental Scientist

2/1/18 Date

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#### SOIL EXCAVATION REPORT

OW SPORT & LIQUOR 107 CENTRAL AVENUE OWEN, WI 54853

BRRTS #03-10-182097 PECFA #54460-0147-07

#### **REI #1687**

#### 1.0 Introduction

#### 1.1 Purpose

This report presents the completion of an excavation to remove petroleum impacted soil from the OW Sport & Liquor site located at 107 Central Avenue, Owen, Wisconsin. The site location is shown on Figure 1.

#### 2.0 SITE BACKGROUND AND HISTORY

The OW Sport & Liquor site is located in the NW ¼ of the SE ¼ of Section 36, Township 29 North, Range 02 West, in the City of Owen, Clark County, Wisconsin (Figure 1). The site address is 107 Central Avenue, Owen, Wisconsin 54460. Wisconsin Transverse Mercator (WTM) coordinates are 475504, 497314. Previous site work included the installation of six (6) monitoring wells and numerous soil borings. A site map documenting previous site work is included in Figure 2.

#### 3.0 SUMMARY OF WORK

#### 3.1 Excavation and Removal of Contaminated Soils

On November 20-22, 2017, REI was on site to oversee the excavation of petroleum impacted soils from the OW Sport & Liquor site. The soil excavation was intended to remove the majority of the petroleum impacted soil reported at the site, reduce the potential of vapor migration into the structures on the subject property and reduce contaminant loading from the soil to the groundwater through source removal. SGS Environmental Contracting, LLC of Merrill, WI was subcontracted to complete the



excavation and hauling. The existing retail petroleum system was also removed during the soil excavation activities. The WDNR project manager, Ms. Gina Keenan, was also onsite on Monday, November 20, 2017 to observe the soil excavation activities and the removal of the petroleum system. Documentation specific to the removal of the tank system will be detailed in later sections of this report.

The measured depth to groundwater in the monitoring wells at the site during the excavation activities was approximately five (5) feet bls. During the excavation, the hole remained dry to a depth of approximately twelve (12) feet. The excavation was completed to a depth of approximately twelve (12) feet Bgs.

Monitoring wells MW3 and MW4 were abandoned and removed during the soil excavation activities. The abandonment forms for monitoring wells MW3 and MW4 are included in Appendix A. To protect the integrity of the structure, the soil excavation did not extend to the frost wall of the building but terminated approximately three feet from the foundation. The area of the completed soil excavation is presented in Figure 3. A total of 1,131.35 tons of petroleum impacted soil was removed from the site and hauled to the Veolia Seven Mile Landfill in Eau Claire, WI for treatment. A copy of the landfill scale data documenting soil disposal is included in Appendix B.

Completion of the soil excavation was complicated by both unstable excavation sidewalls and the concrete foundation and floor of the former building. The current building was constructed over a portion of the former building. The concrete floor and walls from the former building foundation were slowly chipped away to expose the impacted soil beneath the concrete. The completed soil excavation was backfilled with granular material and compacted to a depth of approximately eight (8) inches bls. Gravel was used as final cover over the entire are of the soil excavation. Photos of the soil excavation are included in Appendix C.

#### 3.2 Confirmatory Soil Analytical Results

During the excavation activities, soil samples were field screened with a RAE photo ionization detector (PID) with a 10.6 eV lamp for the presence of total organic vapors.



Twenty-two (22) soil samples were collected from the sidewalls and base of the excavation for field screening with the PID. A total of seventeen (17) select soil samples were collected and analyzed for Petroleum Volatile Organic Compounds (PVOC's) and naphthalene at Pace Laboratories, Green Bay, Wisconsin. Figure 3 documents the locations of the confirmatory soil samples taken during the excavation.

Photo-ionization detector (PID) results aided in determining the actual extent and depth of the completed soil excavation. Following the completion of the soil excavation, residual soil contamination concentrations remain in excess of the allowable NR 140 Groundwater Pathway Protection, with a dilution factor of 2, established for petroleum compounds. Table 1 summarizes the laboratory analytical results from the seventeen (17) soil samples collected for laboratory analysis during the soil excavation activities. The soil laboratory analytical reports from the soil excavation are presented in Appendix D.

#### 3.3 Underground Storage Tank System Removal

On November 20, 2017, REI was on site to oversee removal of the existing retail petroleum system. SGS Environmental Contracting LLC, Merrill, WI performed the purge cut and clean responsibilities. The single 6,000-gallon unleaded gasoline UST and dispenser was removed without issue. A copy of the Tank System Site Assessment is included in Appendix E. The completion of the soil excavation removed all the soil around the former UST.

#### 4.0 CONCLUSION AND RECOMMENDATIONS

Based on the results of the soil samples collected during the completion of the soil excavation activities, the majority of the residual petroleum related soil contamination has been removed.

REI will install replacement wells for MW3 and MW4 along with two (2) additional wells in the spring of 2018. REI will also conduct the approved groundwater sampling and reporting with recommendations for site closure by June 2020.

# Summary of Soil Excavation Analytical Results OW Sports & Liquor 107 Central Avenue Owen, WI Table 1

	Š	Sample Location	CSS#1	CSS#2	CSS#3	CSS#4	CSS#5	CSS#6	CSS#1	Z#2	CSS#8
		Date	Date 11/20/2017	11/20/2017	11/21/2017 11/21/2017	11/21/2017	11/21/2017	11/21/2017	11/21	11/21/2017	11/21/2017
		Depth (ft)	12	12	12	3	5	5	3	5	3
	Saturate	Saturated/Unsaturated	Saturated	Saturated	Saturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated	Unsaturated
	PID Re	PID Result (PID Units)	104.7	126.2	83	0.0	0.0	0.0	0.0	0.0	0.0
		NR 140									
	Non-Industrial	Groundwater									
	Not-To-Exceed	Pathway									
	DC RCL	Protection									
VOC Parameters (µg/kg)		(DF=2)									
Benzene	1,600	5.1	< 25	1,790	1,250	< 25	< 29.4	< 25	< 25	< 25	< 25
Ethylbenzene	8,020	1,570	2,630	1,760	144	< 25	< 29.4	< 25	< 25	< 25	< 25
Toluene	818,000	1,107.20	< 25	3,380	< 25	< 25	< 29.4	< 25	< 25	< 25	< 25
Xylenes (mixed isomers)	260,000	3,940	8,344	089'9	< 50	< 50	< 58.8	< 50	< 50	< 50	< 50
Methyl tert-Butyl Ether (MTBE)	63,800	27	$53.7^{\mathrm{J}}$	< 25	< 25	< 25	< 29.4	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzenes	219,000		8,890	1,590	< 25	< 25	< 29.4	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzenes	182,000		3,350	186	< 25	< 25	< 29.4	< 25	< 25	< 25	< 25
Trimethylbenzenes (Total)		1,379.30	12,240	2,571	< 25	< 25	< 29.4	< 25	< 25	< 25	< 25
Naphthalene	5,520	658.7	2,910	641	81.2	< 25	< 29.4	< 25	< 25	< 25	< 25

	3	Sample Location	GRSS#8	6#8	CSS#10	#10	CSS#1	#11	CSS#12	CSS#13
		Date	11/21/2017	/2017	11/21/2017	/2017	11/21	11/21/2017	11/21/2017	11/21/2017
		Depth (ft)	3	2	3	2	3	2	9	3
	Saturated	Saturated/Unsaturated	Unsaturated							
	PID Res	PID Result (PID Units)	0.0	0.0	7.8	11.6	0.0	6.8	3.2	3.8
-14	1.4.4.4.1	NR 140								
	Not-To-Exceed	Groundwater								
	DC RCL	Protection								
VOC Parameters (µg/kg)		(DF=2)								
Benzene	1,600	5.1	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
Ethylbenzene	8,020	1,570	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
Toluene	818,000	1,107.20	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
Xylenes (mixed isomers)	260,000	3,940	< 20	< 53.2	< 20	< 53.2	< 20	> 20	> 20	< 20
Methyl tert-Butyl Ether (MTBE)	63,800	27	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzenes	219,000		< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzenes	182,000		< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
Trimethylbenzenes (Total)		1,379.30	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25
Naphthalene	5,520	658.7	< 25	< 26.2	< 25	< 26.2	< 25	< 25	< 25	< 25

NR720 Standards Obtained From WDNR Online Excel Database RCL - NR 720 Soil Residual Contaminant Level

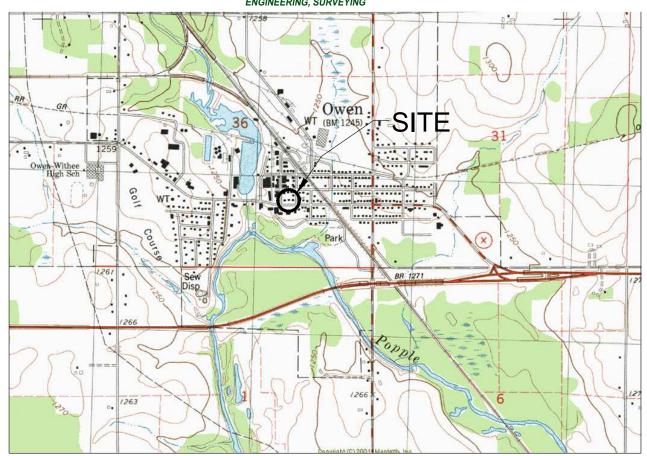
DC - Direct Contact Background Threshold Value Exceeds Non-Industrial Not-To-Exceed DC RCL

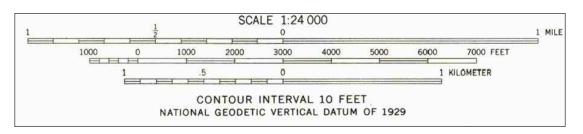
Exceeds NR 140 Groundwater Pathway Protection NS - No Standard

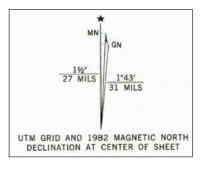
**Bold** Italic

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
 < - Concentration below listed laboratory detection limit</li>
 NA - Not Analyzed









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MAY 03,

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#### OWEN, WIS.

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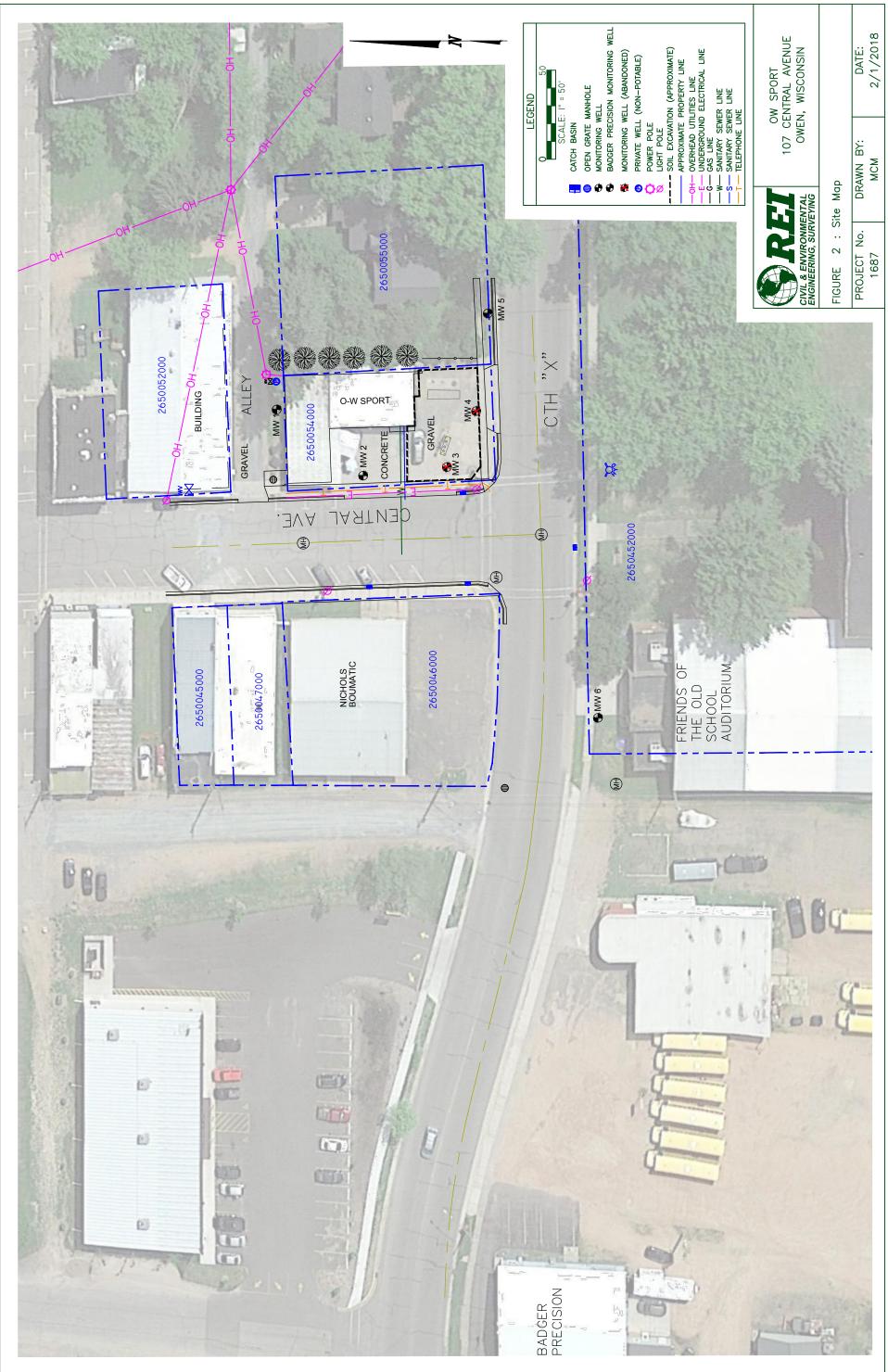
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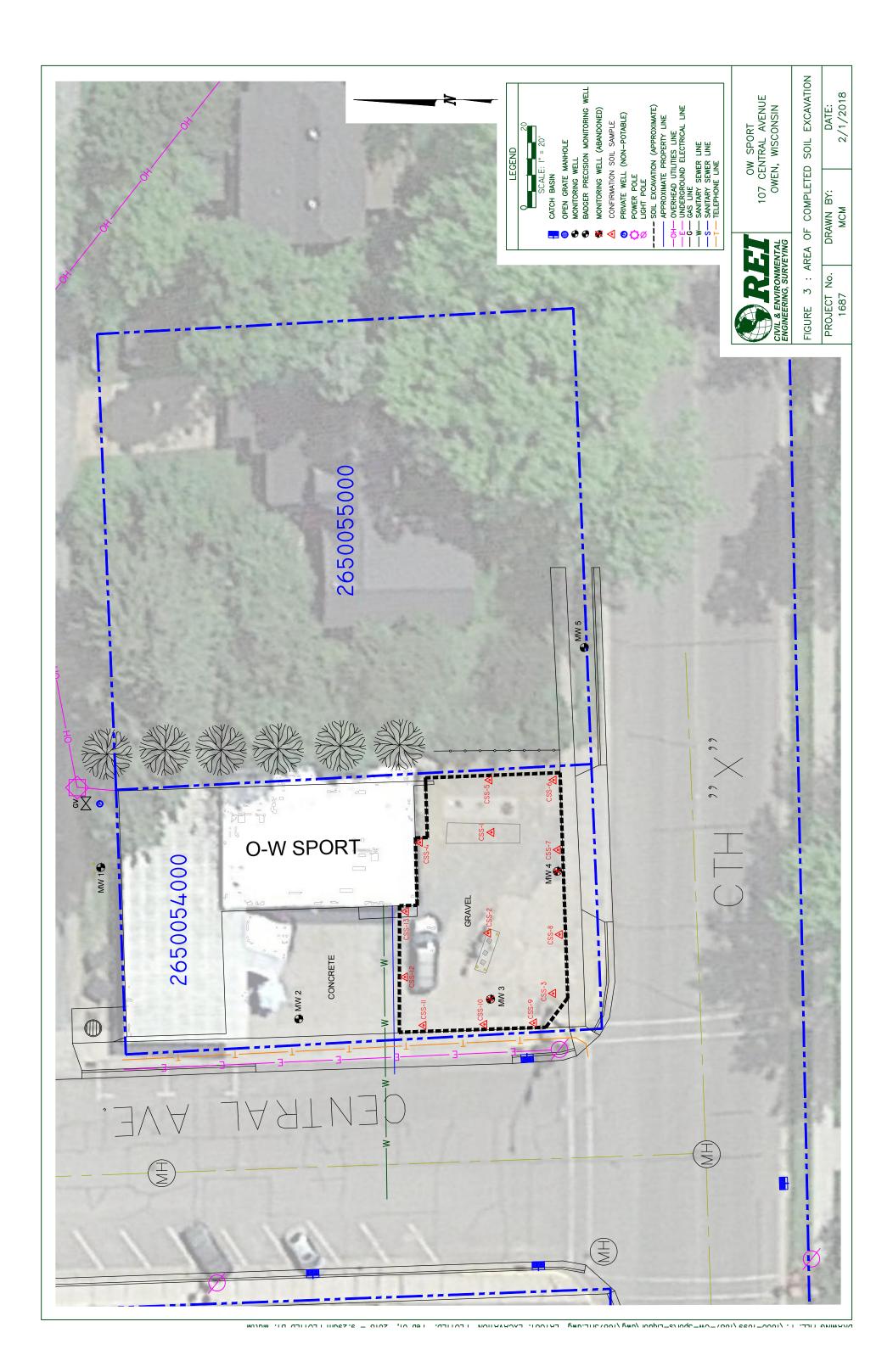


REI Engineering, INC.

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FIGURE	Ξ 1	: SITE	VICINITY	MAP
PROJECT	NO.		_	DRAV





# APPENDIX A

# MONITORING WELL 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.

purpose. Netarri form to the a	pproprieto	D1111.01	-	ite to DNF	R Bureau:						
Verification Only of	Fill and	Seal		Drinking	Water	□ v	Vatershed/Wa	astewater	<b>✓</b> Remed	iation/Redevelopm	ent
voimoution only or	· · · · · · · · ·	-		Waste N	Manageme	nt 🔲 C	Other:				
1. Well Location Informa	tion		74-11-72	NS TOTAL		2. Facility /	Owner Info	ormation			
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Owen				4460	Jue	PO Box 147					
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Cubalvision realine				0.57		Owen			WI	54460	
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Soil Excavation							piping remov	ed?	F	, – –	N/A
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Construction Type:							g material rise al settle after		[ <u>v</u>		N/A
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Other (specify):								used, were they	hydrated _		_
Formation Type:		8. S2.63				with water	from a know	n safe source?	L	Yes ✓ No	N/A
Unconsolidated Formati	on		Bedrock					ng Sealing Mate		2	
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15		2					ed & Poured nite Chips)	Other	(Explain):		
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		5					ement Grout		Concret	е	
	10			I	1.1.1.1		Cement (Cond	crete) Grout	Bentoni	te Chips	
Was well annular space grout	200.000		es	No _	Unknown	For Monitorii	ng Wells and	Monitoring Wei			
If yes, to what depth (feet)?		Depth t	o Water (f	eet)		✓ Benton	ite Chips		Bentonite - Cer	ment Grout	
						Granul	ar Bentonite		Bentonite - Sar		***************************************
5. Material Used to Fill	Well / Dri	llhole				From (ft.)	To (ft.)		acks Sealant c (circle one)	or Mix Ratio o Mud Weigh	
3/8" Bentonite Holeplug					AVEL PRINCIPLE	Surface	15	1/2 bag			
								17.00			
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REI Engineering, Inc					(mm/dd/	yyyy) 11/20/201	17				
Street or Route 4080 N. 20th Avenue						Telephone Nun ( <sup>715</sup> ) <sup>675</sup>		Comments			
City			State	ZIP Code	9	Signature	Person Doin	g Work	I	Date Signed	
Wausau			WI	54401		Wel to	nne			1-31-18	

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

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[Route to DNR Bureau:

				Ro	oute to	DNR	Bureau:	_			-		
Verificatio	n Only	of Fill	and Seal	[	Dri	inking \	<b>Vater</b>		Watershed/W	astewater	✓ Remedia	ation/Redevelo	opment
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Clark		MW4							FID or PWS)				
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107 Central Aver Well City, Village	187000				Mall 7	IP Cod	io.		ress of Preser	it Owner			
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Soil Excavation									removed?	red r	님	Yes No	V N/A
3. Filled & Sea	aled We						hanna		perforated?		H	Yes No	V N/A
✓ Monitoring	Well	ľ	Original Con 12/04/2000	Struction	Date (	mmad	( ) ( ) ( )		emoved?		$\Box$	Yes No	□ N/A
Water Well		-			_			Casing le	eft in place?			Yes 🗸 No	☐ N/A
Borehole / I	Drillhole		If a Well Co please attac		Repo	rt is av	allable,	Was cas	ing cut off belo	w surface?	4	Yes No	□ N/A
Construction Typ	e:							Did seal	ng material ris	e to surface?	$\checkmark$	Yes No	□ N/A
✓ Drilled		Driven (S	Sandpoint)		Dug	1		200000000000000000000000000000000000000	erial settle after			Yes No	□ N/A
Other (spec	cify):								s, was hole ret	opped? used, were they hy	drated	Yes No	✓ N/A
Formation Type:										n safe source?	mateu [	Yes ✓ No	☐ N/A
✓ Unconsolida	ated Forn	nation		Bedrock	(			Required N	lethod of Placi	ng Sealing Material			
Total Well Depth	From Gr	ound Sur	face (ft.)	Casing Dia	meter	(in.)			uctor Pipe-Gra		r Pipe-Pump	ped	
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Lower Drillhole D	Diameter	(in.)	(	Casing De	pth (ft.	.)		Sealing Ma			7		
				5					Cement Grout	_	Concrete		
Was well annular	r space or	routed?		Yes [	7 No		Unknown		-Cement (Con	NAMES OF STREET OF STREET, STREET	Bentonite		
If yes, to what de				to Water				For Monito		Monitoring Well Box	reholes Onl onite - Cem		
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5. Material Us	DESTRUCTION	ill Well	/ Drillhole		SECTION AND ADDRESS OF THE PERSON AND ADDRES			From (ft.)		Volume (circ		Mud We	
3/8" Bentonite Ho	oleplug							Surface	15	1/2 bag		-	
								-					
6. Comments	TORRE AND		NEW YORK								ALC MENTS	ne prozes	
7. Supervisio	n of We	rek	Section of the sec		5.00 CM	HEEN		AND THE SHARE		0.46	DNR Use	Only	
Name of Person			ing & Sealin	g Licer	nse #	THE STATE OF THE S	Date of F	illing & Seali	ng or Verificati	on Date Received	Dilli Oak	Noted By	
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City Wausau				State		Code 401		////	of Berson Doir	ig work		1-31-18	
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te of Wisconsin Dartment of Natural Resources Env.  Cility/Project Name	Local Grid Location of Well Feet S, Feet W	Well Name MW-3	
	Grid Origin Location	Wis. Unique Well Number	DNR Well Number
Cility License, Permit or Monitoring Number	Olid Oligan accessor		
pe of Well Water Table Observation Well	Section Location of Waste/Source	Date Well Installed 12/04/00	
Diozometer		Well Installed By: (Person	's Name and Firm)
tance Well Is From Waste/Source Boundary		te/Source	
Well A Point of Enforcement Std. Application	on? u □ Upgradient s □ Sid	acgradient uro	
Yes □ No	d 🗆 Downgradient n 🗆 No	I KIIOWII	
		1. Cap and lock?	⊠ Yes □ No
Protective pipe, top elevation 99.55	ft. MSL	Protective cover pipe:     a. Inside diameter:	9.0 in.
Well casing, top elevation 99.14	ft. MSL	b. Length: c. Material:	1.0 ft. Steel ⊠ 04
Land surface elevation 99.55	_ft. MSL	d. Additional protection?	_ Other □ No
Surface seal, bottom 98.55 ft. MSL or	1.0_ft.	If yes, describe: Flushmount	
12. USCS Classification of soil near screen:		3. Surface seal:	Bentonite ☐ 30 Concrete ☑ 01
GP GM GC GW SW	SP ⊠ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Other $\square$
SM SC ML MH CL M Bedrock	CH□ I	Material between well casing     An	nular space seal
13. Sieve analysis attached? Yes [			Other 🗆
14. Drilling method used: Rotary I Hollow Stem Auger	⊠ 41	She (and mud unight Rento	anular Bentonite 🛭 33 nite-sand slurry 🔲 35
Other		c Lbs/gal mud weight Bentoni d % Bentonite Bentoni	Rentonite Siuli v L 31
	□ 01 <b></b>	d % Bentonite	
Drilling Mud □ 03 None	⊠ 99	f. How installed:	Tremie 0 0  Tremie pumped 0 0  Gravity 0 0
16. Drilling additives used? Yes  Describe	<ul> <li>△ 41</li> <li>□ 01</li> <li>⋈ 99</li> <li>⋈ No</li> </ul>	6. Bentonite seal: a. Be b. □ 1/4 in. ⊠ 3/8 in. □ 1/2 in.	entonite Granules 🗆 3. Bentonite pellets 🖾 3. ——— Other 🗖
17. Source of water (attach analysis):		d / = = d = atorial Manufacturor	
3		a. Badger BB #7	
(I UCI	10 ft.	b. Volume addedft <sup>3</sup> 8. Filter pack material: Manufacture	
E. Bentonite seal, top 98.55 ft. MSL or		a. American Materials Flint #30	
F. Fine sand, top 96.05 ft. MSL or	1.11	b. Volume addedft	
G. Filter pack, top 95.55 ft. MSL or		9. Well casing: Flush threaded Flush threaded	PVC schedule 80 L 2
H. Screen joint, top 94.55 ft. MSL o	r	<u></u>	Other
I. Well bottom <u>84.55</u> ft. MSL o	r 15.0 ft.	10. Screen material: PVC a. Screen type:	Factory cut 🖾
J. Filter pack, bottom 84.55 ft. MSL o	r <u>15.0</u> ft.	a. sciech type	Continuous slot
K. Borehole, bottom 84.55 ft. MSL o	r 15.0 ft.	b. Manufacturer Northern Air	
L. Borehole, diameter 8.25 in.		c. Slot size: d. Slotted length:	0.010
M. O.D. well cásing <u>2.375</u> in.		11. Backfill material (below filter	er pack): None
N. I.D. well casing 2.067 in.			Other 🗆
	form is true and correct to the best of	my knowledge.  Remedial Engineering, Inc.	
I hereby certify that the information on this	Firm		
Signature // //	Film.	4080 N. 20th Ave. Wausau, WI 54401  ted at the top of this form as required by chs. The to file this form may result in a forfeiture of the top of this form may result in a forfeiture of the this form may result in a forfeiture of the forfe	

partment of Natural Resources Env. Res	Local Grid Location of Well		Well Name MW-4	
O-W Sports and Liquor	Feet S, Feet N		Wis. Unique Well Number	DNR Well Number
cility License, Permit or Monitoring Number	Grid Origin Location		Mis. Oraque Heal Human	
4.11-11 1.1 Ot 11 11-11 M 44	===		Date Well Installed	
pe of Well Water Table Observation Well 11 Piezometer 12	Section Location of Waste/So	ource	12/04/00	
stance Well is From Waste/Source Boundary		-1-/0	Well Installed By: (Person's	Name and Firm)
	Location of Well Relative to W	Sidegradient	Joe Black	
Well A Point of Enforcement Std. Application?  ⊠ Yes □ No	d □ Opyradient		MES	
		_ 1. Cap	and lock?	⊠ Yes □ No
Protective pipe, top elevation 99.42 f	t. MSL	2. Prof	tective cover pipe:	9.0 in.
. Well casing, top elevation 98.99 f	ft. MSL	a. Ins	side diameter: ngth:	1.0 ft.
Land surface elevation 99.42	ft. MSL		terial:	Steel Ø 04
. Surface seal, bottom 98.42 ft. MSL or 1.		d. Ad	ditional protection? yes, describe: Flushmount	⊠ Yes □ No
12. USCS Classification of soil near screen:		7	face seal:	Bentonite 30
	· N			Concrete ⊠ 01 Other □
		4. Ma	aterial between well casing a	nd protective pipe: Bentonite 🛛 30
13. Sieve analysis attached? ☐ Yes ☒ No			Annu	lar space seal  Other
14. Drilling method used: Rotary 5		5. Ani b c		nular Bentonite 🛛 3
Hollow Stem Auger ⊠ 4		5. Ani	Lbs/gal mid weight Benton	te-sand slurry L 3
Other 🗆		c	I be/gat mud weight	entonite sluffy L 3
15. Drilling fluid used: Water □ 02 Air □ 0	n   🔛	e	* BentoniteBentonite     Ft <sup>3</sup> volume added for any of the ab	940
Drilling Mud ☐ 03 None ⊠ 9		f. Н	ow installed:	Tremie □ 0 Tremie pumped □ 0 Gravity 図 0
16. Drilling additives used? ☐ Yes ☒ N	10	. 6 Be	entonite seal: a. Ben	tonite Granules 🗆 3
Describe	—	b. [ с.	☐ 1/4 in. 🖾 3/8 in. 🗀 1/2 in. 🛭 Bo	entonite pellets 🛭 3 Other 🗖
17. Source of water (attach analysis):		7. Fi	ne sand material: Manufacturer, pr	oduct name and mesh size
		. / / a.	Badger BB #7	-
E. Bentonite seal, top 98.42 ft. MSL or	10. #		Volume addedft <sup>3</sup> Iter pack material: Manufacturer,	product name and mesh size
	V.1	/ 8. Fi	American Materials Flint #30	product ridile dra mean size
F. Fine sand, top 95.92 ft. MSL or	[.]		Volume addedft <sup>3</sup>	_
G. Filter pack, top 95.42 ft. MSL or	4.0 ft	9. W	ell casing: Flush threaded P	VC schedule 40 ⊠ 2 VC schedule 80 □ 2
H. Screen joint, top 94.42 ft. MSL or	5.0 ft.		Flush threaded F	Other
I. Well bottom 84.42 ft. MSL or	15.0_ft		Screen material: PVC Screen type:	Factory cut 🖾
J. Filter pack, bottom 84.42 ft. MSL or	15.0 ft.	a.	Screen type.	Continuous slot
K. Borehole, bottom <u>84.42</u> ft. MSL or	<u>15.0</u> ft		Manufacturer Northern Air	Other □
L. Borehole, diameter <u>8.25</u> in.			Slot size: Slotted length:	0.010
M. O.D. well casing <u>2.375</u> in.			Backfill material (below filter	<u> </u>
N. I.D. well casing 2.067 in.		f my knowledge.		
		· · · · · · · · · · · · · · · · · · ·		
I hereby certify that the information on this form	is true and correct to the best of		Remedial Engineering, Inc. 4080 N. 20th Ave.	

# APPENDIX B

# LANDFILL DISPOSAL DOCUMENTATION



#### All Ticket Types History Tickets Only

#### **Detail Customer Activity Report** November 20, 2017 to November 21, 2017

November 20, 2017 to November 21, 2013 Specific Customer(s): 1055 All Facilities

#### 001055- SGS ENVIROMENTAL

Ticket	Facility & Ticket							1
Date	Number	Contract	Truck	.#	Container	Materia	al	
11/20/2017	I G3 740747	OWSPORTS/17121BIO@	HAAS	5274		33B@	EX C-Soil/Pe	et-Unld (
11/20/2017	I G3 740747	OWSPORTS/17121BIO@	HAAS	5274		Profile	Fee EX	
11/20/2017	I G3 740752	OWSPORTS/17121BIO@	HAAS	5286		33 <b>B</b> @	EX C-Soil/Po	et-Unld (
11/20/2017	'I <b>G</b> 3 740754	OWSPORTS/17121BIO@	DKS4	10		33 <b>B</b> @	EX C-Soil/Po	et-Unld (
11/20/2017	'I G3 740765	OWSPORTS/17121BIO@	SGS2	207		33B@	EX C-Soil/Po	et-Unld (
11/20/2017	'I G3 740782	OWSPORTS/17121BIO@	HAAS	5274		=-	EX C-Soil/P	
11/20/2017	'I G3 740784	OWSPORTS/17121BIO@	HAAS	5286			EX C-Soil/P	
11/20/2017	'I G3 740789	OWSPORTS/17121BIO@	DKS4	10		-	EX C-Soil/P	
11/20/2017	'I <b>G</b> 3 740791	OWSPORTS/17121BIO@	SGS2	216		-	EX C-Soil/P	
11/20/2017	'I G3 740829	OWSPORTS/17121BIO@	HAAS	5274			EX C-Soil/P	
11/20/2017	'I G3 740833	OWSPORTS/17121BIO@	HAAS			_	EX C-Soil/P	
11/20/2017	'I <b>G</b> 3 740835	OWSPORTS/17121BIO@	DKS4			-	EX C-Soil/P	
11/20/2017	'I G3 740837	OWSPORTS/17121BIO@	SGS2	216			EX C-Soil/P	
11/20/2017	'I G3 740840	OWSPORTS/17121BIO@	SGS2	207		_	EX C-Soil/P	
11/20/2017	'I G3 740873	OWSPORTS/17121BIO@	DKS <sup>4</sup>			_	EX C-Soil/P	
11/20/2017	'I G3 740874	OWSPORTS/17121BIO@	SGS2			~	EX C-Soil/P	
11/20/2017	7 I G3 740875	OWSPORTS/17121BIO@		S274		_	EX C-Soil/P	
11/20/2017	7 I G3 740877	OWSPORTS/17121BIO@	HAA	5286		33 <b>B</b> @	EX C-Soil/P	et-Unld (
Tickets Rep	ported:	17 Items Reported:	18					
Materia	l Summary		Weigh Inbound	nt Outbound	Volum Inbound	ne Outbound	Cou Inbound	ınt Outbound
FS - 33R6	⊋ EX C-Soil/Pet-U	Inld Gs-ADC	388.53	0.00 TN	0.00	0.00 YD	0.00	0.00
PS - Profil		ina do riba	0.00	0.00 TN	0.00	0.00 YD	1.00	0.00

Tickets Reported:

17 Items Reported:

18

Material Summary	Wei	ght	Volu	me	Cou	ınt
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound
33B@ EX C-Soil/Pet-Unld Gs-ADC Profile Fee EX	388.53 0.00	0.00 TN 0.00 TN	0.00 0.00	0.00 YD 0.00 YD	0.00 1.00	0.00 0.00

RLBECKER 11/21/2017 9:22 AM

G3 SEVEN MILE CREEK LANDFILL LLC

#### All Ticket Types History Tickets Only

# **Detail Customer Activity Report** November 21, 2017 to November 21, 2017

November 21, 2017 to November 21, 201 Specific Customer(s): 1055 All Facilities

#### 001055- SGS ENVIROMENTAL

Ticket Facility & T Date Numbe		Truck #	Container	Material
11/21/2017 I G3 7408		SGS207		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		HAAS201		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409	•	HAAS290		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		HAAS248		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409	•	HAAS183		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409	·	HAAS182		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		DKS40		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409	•	HAAS272		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409	·	HAAS245		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		HAAS201		33B@ EX C-Soil/Pet-Unld (
	• • • • • • • • • • • • • • • • • • • •	HAAS290		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409 11/21/2017 I G3 7409		SGS207		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		HAAS183		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	•	HAAS182		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740		HAAS248		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 7409		DKS40		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	• • • • • • • • • • • • • • • • • • • •	HAAS272		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	<del>-</del>	HAAS245		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740		HAAS201		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	•	HAAS290		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740		SGS207		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	•	HAAS183		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740	•	HAAS182		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 740		HAAS248		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		DKS40		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		HAAS272		33B@ EX C-Soil/Pet-Unid (
11/21/2017 I G3 741	• •	HAAS245		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		HAAS201		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741	•	AMERICAN10		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		HAAS290		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		HAAS183		33B@ EX C-Soil/Pet-Unld
11/21/2017 I G3 741		HAAS182		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741		HAAS248		33B@ EX C-Soil/Pet-Unld (
11/21/2017 I G3 741	· .	DKS40		33B@ EX C-Soil/Pet-Unld (
Tickets Reported:	34 Items Reported:	34		

RLBECKER 11/22/2017 8:39 AM

G3 SEVEN MILE CREEK LANDFILL LLC

#### All Ticket Types History Tickets Only

**Detail Customer Activity Report** November 21, 2017 to November 21, 2017

Specific Customer(s): 1055 All Facilities

Material Summary			II	Weigh nbound	nt Outbound	Inbo	Volume und Outboเ	und	Co Inbound	ount Outbound	Billing Quantity
ES - 33B@ EX C-Soil/	ES - 33B@ EX C-Soil/Pet-Unld Gs-ADC		742.82		0.00 TN	0.	.00 0.	0.00 YD		0.00	742.82 TI
					MANUFACTURE TO THE STATE OF THE						Cash '
Tickets Reported:	34	Items Reported:	3	34							Invoice Report
Material Summary			Weig Inbound	ht Outboun	d In	Volu	me Outbound		Cou Inbound	nt Outbound	Billing Quantity
33B@ EX C-Soil/Pet-U	nld Gs-AD	С	742.82	0.00	_	0.00	0.00 Y	(D	0.00	0.00	742.82 TI

# APPENDIX C

# SITE PHOTOGRAPHS





p:\1600-1699\1687-ow-sports-liquor\reports\soil excavation\[1687seappc.xls]photo sheet 2

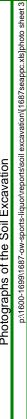
REI Project: 1687



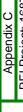


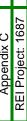


Appendix C REI Project: 1687

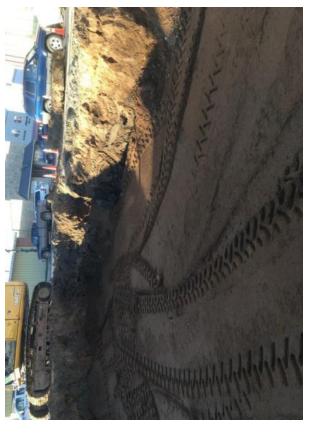


















# APPENDIX D

# SOIL ANALYTICAL REPORT





December 11, 2017

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

RE: Project: 1687 OW SPOUT Pace Project No.: 40161505

#### Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on November 29, 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.

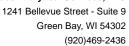
Sincerely,

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

Project Manager

Enclosures







#### **CERTIFICATIONS**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

#### **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



#### **SAMPLE SUMMARY**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161505001	CSS#1 @ 12'	Solid	11/20/17 12:40	11/29/17 08:50
40161505002	CSS#2 @ 12'	Solid	11/21/17 10:20	11/29/17 08:50
40161505003	CSS#3 @ 12'	Solid	11/21/17 10:30	11/29/17 08:50
40161505004	CSS#4 @ 3'	Solid	11/21/17 13:00	11/29/17 08:50
40161505005	CSS#5 @ 5'	Solid	11/21/17 13:07	11/29/17 08:50
40161505006	CSS#6 @ 5'	Solid	11/21/17 13:10	11/29/17 08:50
40161505007	CSS#7 @ 3'	Solid	11/21/17 13:13	11/29/17 08:50
40161505008	CSS#7 @ 5'	Solid	11/21/17 13:15	11/29/17 08:50
40161505009	CSS#8 @ 3'	Solid	11/21/17 13:18	11/29/17 08:50
40161505010	CSS#9 @ 3'	Solid	11/21/17 13:30	11/29/17 08:50
40161505011	CSS#9 @ 5'	Solid	11/21/17 13:33	11/29/17 08:50
40161505012	CSS#10 @ 3'	Solid	11/21/17 13:40	11/29/17 08:50
40161505013	CSS#10 @ 5'	Solid	11/21/17 13:42	11/29/17 08:50
40161505014	CSS#11 @ 3'	Solid	11/21/17 13:45	11/29/17 08:50
40161505015	CSS#11 @ 5'	Solid	11/21/17 13:48	11/29/17 08:50
40161505016	CSS#12 @ 5'	Solid	11/21/17 13:52	11/29/17 08:50
40161505017	CSS#13 @ 3'	Solid	11/21/17 13:55	11/29/17 08:50



#### **SAMPLE ANALYTE COUNT**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161505001	CSS#1 @ 12'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505002	CSS#2 @ 12'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505003	CSS#3 @ 12'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505004	CSS#4 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505005	CSS#5 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505006	CSS#6 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505007	CSS#7 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505008	CSS#7 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505009	CSS#8 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505010	CSS#9 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505011	CSS#9 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505012	CSS#10 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505013	CSS#10 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505014	CSS#11 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505015	CSS#11 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505016	CSS#12 @ 5'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1
40161505017	CSS#13 @ 3'	WI MOD GRO	ALD	10
		ASTM D2974-87	KTS	1



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#1 @ 12' Lab ID: 40161505001 Collected: 11/20/17 12:40 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 16:42	71-43-2	W
Ethylbenzene	2630	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	100-41-4	
Methyl-tert-butyl ether	53.7J	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	1634-04-4	
Naphthalene	2910	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	91-20-3	
Toluene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 16:42	108-88-3	W
1,2,4-Trimethylbenzene	8890	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	95-63-6	
1,3,5-Trimethylbenzene	3350	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	108-67-8	
m&p-Xylene	7820	ug/kg	114	57.0	1	11/30/17 07:30	11/30/17 16:42	179601-23-1	
o-Xylene	524	ug/kg	57.0	28.5	1	11/30/17 07:30	11/30/17 16:42	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	90	%	80-120		1	11/30/17 07:30	11/30/17 16:42	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	12.3	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#2 @ 12' Lab ID: 40161505002 Collected: 11/21/17 10:20 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	1790	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	71-43-2	
Ethylbenzene	1760	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 16:16	1634-04-4	W
Naphthalene	641	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	91-20-3	
Toluene	3380	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	108-88-3	
1,2,4-Trimethylbenzene	1590	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	981	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	108-67-8	
m&p-Xylene	5010	ug/kg	120	60.0	1	11/30/17 07:30	11/30/17 16:16	179601-23-1	
o-Xylene	1670	ug/kg	60.0	30.0	1	11/30/17 07:30	11/30/17 16:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	11/30/17 07:30	11/30/17 16:16	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	16.7	%	0.10	0.10	1		12/08/17 11:08		



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CS\$#3 @ 12' Lab ID: 40161505003 Collected: 11/21/17 10:30 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	1250	ug/kg	61.1	30.5	1	11/30/17 07:30	11/30/17 19:43	71-43-2	
Ethylbenzene	144	ug/kg	61.1	30.5	1	11/30/17 07:30	11/30/17 19:43	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 19:43	1634-04-4	W
Naphthalene	81.2	ug/kg	61.1	30.5	1	11/30/17 07:30	11/30/17 19:43	91-20-3	
Toluene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 19:43	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 19:43	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 19:43	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/30/17 07:30	11/30/17 19:43	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 19:43	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	97	%	80-120		1	11/30/17 07:30	11/30/17 19:43	98-08-8	
Percent Moisture	Analytical	Method: AS7	ΓM D2974-87						
Percent Moisture	18.1	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#4 @ 3' Lab ID: 40161505004 Collected: 11/21/17 13:00 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/30/17 07:30	11/30/17 20:09	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 20:09	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	96	%	80-120		1	11/30/17 07:30	11/30/17 20:09	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	6.6	%	0.10	0.10	1		12/08/17 11:08		



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#5 @ 5' Lab ID: 40161505005 Collected: 11/21/17 13:07 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	71-43-2	W
Ethylbenzene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	100-41-4	W
Methyl-tert-butyl ether	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	1634-04-4	W
Naphthalene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	91-20-3	W
Toluene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	108-88-3	W
1,2,4-Trimethylbenzene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	95-63-6	W
1,3,5-Trimethylbenzene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	108-67-8	W
m&p-Xylene	<58.8	ug/kg	118	58.8	1	11/30/17 07:30	11/30/17 20:34	179601-23-1	W
o-Xylene	<29.4	ug/kg	58.8	29.4	1	11/30/17 07:30	11/30/17 20:34	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	97	%	80-120		1	11/30/17 07:30	11/30/17 20:34	98-08-8	
Percent Moisture	Analytical	Method: AS	ΓM D2974-87						
Percent Moisture	16.2	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#6 @ 5' Lab ID: 40161505006 Collected: 11/21/17 13:10 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/30/17 07:30	11/30/17 21:00	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:00	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	95	%	80-120		1	11/30/17 07:30	11/30/17 21:00	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	15.0	%	0.10	0.10	1		12/08/17 11:08		



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#7 @ 3' Lab ID: 40161505007 Collected: 11/21/17 13:13 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	<b>Method</b>	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/30/17 07:30	11/30/17 21:26	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/30/17 07:30	11/30/17 21:26	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	97	%	80-120		1	11/30/17 07:30	11/30/17 21:26	98-08-8	
Percent Moisture	Analytical	Method: AS	TM D2974-87						
Percent Moisture	15.5	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#7 @ 5' Lab ID: 40161505008 Collected: 11/21/17 13:15 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 10:56	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 10:56	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 10:56	98-08-8	
Percent Moisture	Analytical	Method: AST	M D2974-87						
Percent Moisture	7.3	%	0.10	0.10	1		12/08/17 11:08		



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#8 @ 3' Lab ID: 40161505009 Collected: 11/21/17 13:18 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.			
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	71-43-2	W	
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	100-41-4	W	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	1634-04-4	W	
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	91-20-3	W	
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	108-88-3	W	
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	95-63-6	W	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	108-67-8	W	
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 11:21	179601-23-1	W	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:21	95-47-6	W	
Surrogates										
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 11:21	98-08-8		
Percent Moisture	Analytical Method: ASTM D2974-87									
Percent Moisture	8.5	%	0.10	0.10	1		12/08/17 11:08			

Sample: CSS#9 @ 3' Lab ID: 40161505010 Collected: 11/21/17 13:30 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	I: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 11:47	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 11:47	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 11:47	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	17.0	%	0.10	0.10	1		12/08/17 11:08		



Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#9 @ 5' Lab ID: 40161505011 Collected: 11/21/17 13:33 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	Method	I: TPH GRO/PVO	C WI ext.			
Benzene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	71-43-2	W	
Ethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	100-41-4	W	
Methyl-tert-butyl ether	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	1634-04-4	W	
Naphthalene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	91-20-3	W	
Toluene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	108-88-3	W	
1,2,4-Trimethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	95-63-6	W	
1,3,5-Trimethylbenzene	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	108-67-8	W	
m&p-Xylene	<53.2	ug/kg	128	53.2	1	11/30/17 07:30	11/30/17 12:13	179601-23-1	W	
o-Xylene Surrogates	<26.6	ug/kg	63.8	26.6	1	11/30/17 07:30	11/30/17 12:13	95-47-6	W	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/30/17 07:30	11/30/17 12:13	98-08-8		
Percent Moisture	Analytical Method: ASTM D2974-87									
Percent Moisture	5.3	%	0.10	0.10	1		12/08/17 11:08			

Sample: CSS#10 @ 3' Lab ID: 40161505012 Collected: 11/21/17 13:40 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 12:38	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 12:38	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 12:38	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.8	%	0.10	0.10	1		12/08/17 11:08		



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#10 @ 5' Lab ID: 40161505013 Collected: 11/21/17 13:42 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	71-43-2	W
Ethylbenzene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	100-41-4	W
Methyl-tert-butyl ether	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	1634-04-4	W
Naphthalene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	91-20-3	W
Toluene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	108-88-3	W
1,2,4-Trimethylbenzene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	95-63-6	W
1,3,5-Trimethylbenzene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	108-67-8	W
m&p-Xylene	<52.1	ug/kg	125	52.1	1	11/30/17 07:30	11/30/17 13:04	179601-23-1	W
o-Xylene	<26.0	ug/kg	62.5	26.0	1	11/30/17 07:30	11/30/17 13:04	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 13:04	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	10.6	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#11 @ 3' Lab ID: 40161505014 Collected: 11/21/17 13:45 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	reparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 13:29	179601-23-1	W
o-Xylene <b>Surrogates</b>	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:29	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/30/17 07:30	11/30/17 13:29	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	9.7	%	0.10	0.10	1		12/08/17 11:08		



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#11 @ 5' Lab ID: 40161505015 Collected: 11/21/17 13:48 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 13:55	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 13:55	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	11/30/17 07:30	11/30/17 13:55	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	11.1	%	0.10	0.10	1		12/08/17 11:08		

Sample: CSS#12 @ 5' Lab ID: 40161505016 Collected: 11/21/17 13:52 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters ————————————————————————————————————	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI I	MOD GRO Pr	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 14:21	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:21	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/30/17 07:30	11/30/17 14:21	98-08-8	
Percent Moisture	Analytical	Method: AST	TM D2974-87						
Percent Moisture	17.7	%	0.10	0.10	1		12/08/17 11:08		



#### **ANALYTICAL RESULTS**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Sample: CSS#13 @ 3' Lab ID: 40161505017 Collected: 11/21/17 13:55 Received: 11/29/17 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI	MOD GRO Pi	eparation N	/lethod	: TPH GRO/PVO	C WI ext.		
Benzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	1634-04-4	W
Naphthalene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	91-20-3	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/30/17 07:30	11/30/17 14:46	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/30/17 07:30	11/30/17 14:46	95-47-6	W
Surrogates a,a,a-Trifluorotoluene (S)	100	%	80-120		1	11/30/17 07:30	11/30/17 14:46	98-08-8	
Percent Moisture	Analytical	Method: AST	ΓM D2974-87						
Percent Moisture	11.8	%	0.10	0.10	1		12/08/17 11:08		



#### **QUALITY CONTROL DATA**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

QC Batch: 275669 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40161505001, 40161505002, 40161505003, 40161505004, 40161505005, 40161505006, 40161505007

METHOD BLANK: 1621307 Matrix: Solid

Associated Lab Samples: 40161505001, 40161505002, 40161505003, 40161505004, 40161505005, 40161505006, 40161505007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:16	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:16	
Benzene	ug/kg	<25.0	50.0	11/30/17 09:16	
Ethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:16	
m&p-Xylene	ug/kg	<50.0	100	11/30/17 09:16	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	11/30/17 09:16	
Naphthalene	ug/kg	<25.0	50.0	11/30/17 09:16	
o-Xylene	ug/kg	<25.0	50.0	11/30/17 09:16	
Toluene	ug/kg	<25.0	50.0	11/30/17 09:16	
a,a,a-Trifluorotoluene (S)	%	96	80-120	11/30/17 09:16	

LABORATORY CONTROL SAMPL	E & LCSD: 1621308		16	321309						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1040	1060	104	106	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1000	1030	100	103	80-120	2	20	
Benzene	ug/kg	1000	1010	1020	101	102	80-120	1	20	
Ethylbenzene	ug/kg	1000	989	1010	99	101	80-120	3	20	
m&p-Xylene	ug/kg	2000	1980	2020	99	101	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	974	993	97	99	80-120	2	20	
Naphthalene	ug/kg	1000	957	1000	96	100	80-120	4	20	
o-Xylene	ug/kg	1000	993	1010	99	101	80-120	2	20	
Toluene	ug/kg	1000	976	992	98	99	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				96	96	80-120			

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.



#### **QUALITY CONTROL DATA**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

QC Batch: 275670 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV

Associated Lab Samples: 40161505008, 40161505009, 40161505010, 40161505011, 40161505012, 40161505013, 40161505014,

40161505015, 40161505016, 40161505017

METHOD BLANK: 1621310 Matrix: Solid

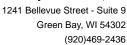
Associated Lab Samples: 40161505008, 40161505009, 40161505010, 40161505011, 40161505012, 40161505013, 40161505014,

40161505015, 40161505016, 40161505017

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:13	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:13	
Benzene	ug/kg	<25.0	50.0	11/30/17 09:13	
Ethylbenzene	ug/kg	<25.0	50.0	11/30/17 09:13	
m&p-Xylene	ug/kg	<50.0	100	11/30/17 09:13	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	11/30/17 09:13	
Naphthalene	ug/kg	<25.0	50.0	11/30/17 09:13	
o-Xylene	ug/kg	<25.0	50.0	11/30/17 09:13	
Toluene	ug/kg	<25.0	50.0	11/30/17 09:13	
a,a,a-Trifluorotoluene (S)	%	100	80-120	11/30/17 09:13	

LABORATORY CONTROL SAMPLE	& LCSD: 1621311		16	321312						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1060	1130	106	113	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1020	1080	102	108	80-120	6	20	
Benzene	ug/kg	1000	1050	1070	105	107	80-120	2	20	
Ethylbenzene	ug/kg	1000	1040	1090	104	109	80-120	4	20	
m&p-Xylene	ug/kg	2000	2050	2170	103	108	80-120	5	20	
Methyl-tert-butyl ether	ug/kg	1000	1010	1060	101	106	80-120	4	20	
Naphthalene	ug/kg	1000	1010	1140	101	114	80-120	12	20	
o-Xylene	ug/kg	1000	1030	1090	103	109	80-120	5	20	
Toluene	ug/kg	1000	1030	1070	103	107	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				100	102	80-120			

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.





#### **QUALITY CONTROL DATA**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

QC Batch: 276623 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40161505001, 40161505002, 40161505003, 40161505004, 40161505005, 40161505006, 40161505007, 40161505008, 40161505009, 40161505010, 40161505011, 40161505012, 40161505013, 40161505014,

40161505015, 40161505016, 40161505017

SAMPLE DUPLICATE: 1626732

Date: 12/11/2017 08:15 AM

 Parameter
 Units
 40161704006 Result
 Dup Result
 Max Repul
 RPD
 Qualifiers

 Percent Moisture
 %
 17.3
 16.5
 4
 10

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.



#### **QUALIFIERS**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

#### **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**

Date: 12/11/2017 08:15 AM

W Non-detect results are reported on a wet weight basis.



#### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: 1687 OW SPOUT

Pace Project No.: 40161505

Date: 12/11/2017 08:15 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161505001	CSS#1 @ 12'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505002	CSS#2 @ 12'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505003	CSS#3 @ 12'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505004	CSS#4 @ 3'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505005	CSS#5 @ 5'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505006	CSS#6 @ 5'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505007	CSS#7 @ 3'	TPH GRO/PVOC WI ext.	275669	WI MOD GRO	275671
40161505008	CSS#7 @ 5'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505009	CSS#8 @ 3'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505010	CSS#9 @ 3'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505011	CSS#9 @ 5'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505012	CSS#10 @ 3'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505013	CSS#10 @ 5'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505014	CSS#11 @ 3'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505015	CSS#11 @ 5'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505016	CSS#12 @ 5'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505017	CSS#13 @ 3'	TPH GRO/PVOC WI ext.	275670	WI MOD GRO	275672
40161505001	CSS#1 @ 12'	ASTM D2974-87	276623		
40161505002	CSS#2 @ 12'	ASTM D2974-87	276623		
40161505003	CSS#3 @ 12'	ASTM D2974-87	276623		
40161505004	CSS#4 @ 3'	ASTM D2974-87	276623		
40161505005	CSS#5 @ 5'	ASTM D2974-87	276623		
40161505006	CSS#6 @ 5'	ASTM D2974-87	276623		
40161505007	CSS#7 @ 3'	ASTM D2974-87	276623		
40161505008	CSS#7 @ 5'	ASTM D2974-87	276623		
40161505009	CSS#8 @ 3'	ASTM D2974-87	276623		
40161505010	CSS#9 @ 3'	ASTM D2974-87	276623		
40161505011	CSS#9 @ 5'	ASTM D2974-87	276623		
40161505012	CSS#10 @ 3'	ASTM D2974-87	276623		
40161505013	CSS#10 @ 5'	ASTM D2974-87	276623		
40161505014	CSS#11 @ 3'	ASTM D2974-87	276623		
40161505015	CSS#11 @ 5'	ASTM D2974-87	276623		
40161505016	CSS#12 @ 5'	ASTM D2974-87	276623		
40161505017	CSS#13 @ 3'	ASTM D2974-87	276623		

OHIGINAL Version 6.0 06/14/06

Present / Not Present Intact / Not Intact	Date/Time:	Received By:	Date/Time:		Relinquished By:	Samples on HOLD are subject to special pricing and release of liability	
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1 2 Michael			74:00	W. J. Mc	Polinguished By	(Rush IAI subject to approval/surcharge)  Date Needed:	(Kush IAI (
PACE Project No.	Date/Time:	Received By:	9)	44.74	Relinquished By:	Rush Turnaround Time Requested - Prelims	Rush Turnard
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			×	K	=======================================	CSS 47 e3'	8) 0
			×	X	50	CSS#6 @5'	000 CS
			X	X	1:0:1	CS45 e5'	C XX
			×	×	1;;00	CSS #4 @31	004 C
			X	X	10:30	CSS#3 @ 12'	03
			X	X	11/21/17/10:20	CSS42 @ 12'	87
1-402pA	1-40mly F		χ	Soi 1 X	104:31 Lipsin	CSSWI e12'	9
Т	S		S	F	DATE TIME		PACE LAB#
LAB COMMENTS   Profile #	-		Pliz	Inaly Vac,	O = Oil SW = Surface Water S = Soil WW = Waste Water SI = Sludge WP = Wipe	NOT needed on your sample	EPA Level IV
MASSAGRAS, (PO) — A SP. SETTEMPO SETTEMPO SETTEMPO A AGENCA AGENCIA (SP. SETTEMPO SETTEMPO SETTEMPO SETTEMPO S	Invoice To Phone:		\frac{1}{2}	ses		(billable)	☐ EPA Level III
				Requ	1 20	DSW/SD	Data Package Options (billable)
	Invoice To Address:			Peste	Regulatory REA		PO#:
даландардың тайын үчкен үчке теререкен жазанда айылында жазанда жазанда жазанда жазанда жазанда жазанда жазанд	Invoice To Company:					Sappl Co	Sampled By (Sign):
	Invoice To Contact:		7	ATION Pick	PRESERVATION (CODE)*	1): Day to January	Sampled By (Print):
	<b>_</b>		<i>M</i>	ED? Y/W //	FILTERED? (YES/NO)	M	Project State:
медин балан жайлан үзүнүн жанан аламан а	Mail To Address:	1	١.	H=Sodium Bisulfate Solution	H=Sod	Ow Sport	Project Name:
	Mail To Company:	anol G≔NaOH	*Preservation Codes D=HNO3 E=DI Water F=Methanol	B=HCL C=H2SO4	A=None	TTTE-1687	Project Number:
	Mail To Contact:	004	OF CUSTO	Z Z Z Z		is	Phone:
Pag	Quote #:		W WW. Descendus, COM	re we w. Joseph		DayID LARSEN	Project Contact:
e 19			\$ 50°	Pace Analytical			Branch/Location:
*\ 	WI: 920-469-2436	MN: 612-607-1700	•			R	Company Name:
TOTATO Page 1 of		UPPER MIDWEST REGION				(Please Print Clearly)	

40/6/50 Sage

Telephone: Email #1: Email #2: Transmit Prelim Rush Result C019a(27Jun2006) Rush Turnaround Tir 250 00 (Rush TAT subject I special pricing and release of liability Samples on HOLD are subject to Date Need C85# CSS# CST Relinquished By: Date/Time:

DRIGINAL

Intact / Not Intact

Face Analytical®

PO #:

115-675-976 DESERT CITY

Project Contact: Branch/Location: Company Name:

(Please Print Clearly)

Ke

UPPER MIDWEST REGION

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

	The state of the s	Codes
	Mail To Contact:	CUSTODY
Pi	Quote #:	
ge		
12 You Wigner		

spec	na ferratura de calegra de constante de cons	×	nall #2:	na##1:	Transmit Preli	(Rush T	Rush Tur					07	DIK)	015	514	PACE LAB #			Data Packa	PO #:	Sampled By (Sign):	Sampled By (Print):	Project State:	Project Name:	Project Number:	Phone:
special pricing and release of liability	Samples on HOLD are subject to				Transmit Prelim Rush Results by (complete what you want):	(Rush TAT subject to approval/surcharge)  Date Needed:	Rush Turnaround Time Reguested - Prolims					CSS#13 @3'		1	CSS#11@3'		EPA Level IV NOT needed on S = Soil  your sample S = Sludge	(billable)	7	Re	harl C	(Print): DAMA CAUSIZA	** (D)	e and Sport	ber: \$1667	115-675-9784
Relinquished By:		Relinquished By:	mana di mananana di manana di manana di manana da manana	Relinquished By:	15ato	Reinquisned By Affice						1:85	1:52		_	OLLECTION MATRIX	SW = Surface Water WW = Waste Water WP = Wine	B = Biota DW = Drinking Water C = Charcoal GW = Ground Water	Matrix Codes	Regulatory ACFA		PRESERVATION Pick (CODE)* Letter	FILTERED? (YES/NO) Y.F.N	H=Sodium Bisulfate Solution	A=None B=HCL	2
Date/Time:	AMPLIANTE DE LE CONTRACTOR DE LE CONTRACTOR DE LA CONTRAC	Date/Time:		Date Time:	Date/Time:	) (//18//7 4:0c										Se	an This	5	V			FA	MM	I=Sodium Thiosulfate	*Preservation Codes C=H2SO4 D=HNO3 E=DI Water F=I	CHAIN OF CUSTODY
Received By:		Received By:	neceived by:		Received By:	Received By:																			F=Methanol G=NaOH	
Date/Time:		Date/Time:	Date/Time:	100	4	Date/Time:								- Care	1-40m/ F	COMMENTS	invoice to Phone:			Invoice To Address:	Invoice To Company:	Invoice To Contact:		Mail To Address:	Mail To Company:	Mail To Contact:
Present / Not Present	Cooler Custody Seal	OK / Adjusted	Sample Receipt of	Receipt Temp = 201	70/0/0	PACE Project No.					*			(30)	(Lab ose only)	/ AB COMMENTS Profile #										
								 			- Carrier Carrier				ooralkuusuus			1		rusuluum.						

# **Sample Condition Upon Receipt**

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

Page 21 of 21

Pace Analytical\*

Courier: Fed Ex UPS Client Pa	ce Other: \	- unli	นา		
Tracking #: 1570008-1		<del>\( \text{\tin}\exititt{\texitit}\\ \text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\texi}\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\texit{\text{\tex{\text{\text{\text{\text{\text{\texi}\text{\texi}\texit{\ti</del>			
Custody Seal on Cooler/Box Present:  yes	no Sea	ls intac	yes I no	40161505	
Custody Seal on Samples Present: Fyes	no Sea	ils intact	: Tyes no		
Packing Material:   Bubble Wrap   Bu					
Thermometer Used NI#)	Type of Ic		Blue Dry None		on ice, cooling process has begun
Cooler Temperature Uncorr: /Corr.:	KU 1	Biolo	gical Tissue is Fro		
Temp Blank Present:  yes no				no	Person examining contents Date: (\((29\)))
Temp should be above freezing to 6°C.  Biota Samples may be received at ≤ 0°C.			Comments:		Initials: RM
Chain of Custody Present:	-⊟Yés □No	DN/A	T		
Chain of Custody Filled Out:	→ Pres □ No	DN/A	2.		
Chain of Custody Relinquished:	Pes □No	DN/A	3.		
Sampler Name & Signature on COC:	□ Yes □ No	□N/A	4.		
Samples Arrived within Hold Time:	→ Tes □No	□N/A	5.		
- VOA Samples frozen upon receipt	□Yes □No	1	Date/Time:		
Short Hold Time Analysis (<72hr):	□Yes 🔎 No	□N/A	6.		
Rush Turn Around Time Requested:	□Yes □No	□n/a	7.		The second secon
Sufficient Volume:	□Yes □No	□N/A	8. NO m2)	med eg	1129/N
Correct Containers Used:	No				
-Pace Containers Used:	_☐Yes □No	□n/a			
-Pace IR Containers Used:	□Yes □No	<b>□</b> M/A		•	
Containers Intact:		□n/a	10.		
Filtered volume received for Dissolved tests	□Yes □No	<del>□N</del> 7A	11.		
Sample Labels match COC:	□Yes No	□n/a	12.001 ID "CS	s #1" co	77 11 11 CSS #2"
	S		003 10"05	#3" Cherry	r averas all saals
Il containers needing preservation have been checked. Non-Compliance noted in 13.)	☐Yes ☐No	ΠÌΝ/Δ			NaOH   NaOH +ZnAct
All containers needing preservation are found to be in		7:11	13.	,	Haon Fridon ZIACE
ompliance with EPA recommendation. HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □No	□ N/A			
xceptions: VOA, coliform, TOC, TOX, TOH,		+	Initial when	_ab Std #ID of	Date/
&G, WIDROW, Phenolics, OTHER:	□Yes □⁄No		completed p	preservative	Time:
leadspace in VOA Vials ( >6mm):	□Yes □No	/□N/A	14.		
rip Blank Present:	□Yes □No	ØN/A	15.		
rip Blank Custody Seals Present	□Yes □No	ØN/A			
ace Trip Blank Lot # (if purchased): lient Notification/ Resolution:					
Person Contacted:		Date/T	ime:	necked, see attache	ed form for additional comments
Comments/ Resolution: (1) 015 +ime	1345	Date/T	me: - 29-17 KR		
Project Manager Review:	1			Date:	11-29-17
GB-C-031-Rev.04 (12Dec2016) SCUR.xls	<del>-                                    </del>	<del>7</del>			11 2111

# APPENDIX E

# TANK SYSTEM SITE ASSESSMENT DOCUMENTATION



## SGS EnvironmentalContracting, LLC



UST / AST Removal

N2570 Daytona Drive MERRILL, WI 54452 1-800-261-2803 715-539-2803 Fax 715-539-2661

Jav A. Schlueter CELL (715) 218-1001

jay@sgs-env.com







CONTAMINATED SOIL **EXCAVATIONS** 



GEOPROBE SOIL BORING

### CERTIFICATE OF UNDERGROUND STORAGE TANK DISPOSAL

On November 20th, 2017 SGS Environmental Contracting LLC completed the removal of (1) - Underground Storage Tank: (1) - 6,000 gallon Unleaded Gas UST for:

> O & W Sports & Liquor 107 Central Ave. Owen WI 54460

Sludge generated at the job site was barreled and disposed of at:

Covanta Environmental Services 210 Tower Rd. Winneconne WI 54986

Tank was taken to:

Don's Salvage W9992 Highway 64 Withee WI 54498

Office Manager

SGS Environmental Contracting LLC, N2570 Daytona Drive, Merrill, WI 54452 715.539.2803 Fax 715.539.2661 jay@sgs-env.com



Wisconsin Department of Agriculture, Trade and Consumer Protection Bureau of Weights and Measures, Permits and Licensing P.O. Box 7837 Madison, WI 53707-7837 (608) 224-4942 FOR OFFICE USE ONLY

Wis, Admin. Code §ATCP 93.560

		TANK S	SYSTEM SE	RVICE A	ND CLOS	JRE ASS	ESSMENT	REPORT			
CHECK O	NE:	⊠uv	IDERGROU	ND	□ABO\	/EGROUN	D				
FOR PORTION	S OF THE FO	ORM THAT DO NO	T APPLY, CHECK	THE 'N/A' BO	x						
Complete One	Form for Eacl	n System Service	Event								
The information	n you provide	may be used for pu	urposes other than	for which it was	s originally intend	ded (s.15.04 (1)	(m), Wis. Stats.)				
Part A - To	be comp	oleted by cor	ntractor perf	orming re	pair or clos	ure					
Indicate p	ERVICE  ortion of systemate fill	CLOSURE D tem being service Tank	REPAIR/UPGR/ d if a <u>repair</u> , <u>upgr</u>	ade or change	NGE-IN-SERV -in-service is be ition/containmen	ang periormed	☐ Spill I	oucket   Dispense	er		
B. IDENTIFIC	ATION (Plea										
1. Facility Nan	10				2. Owner Nan						
O&WS			-		Jacalyn			Job T	itle		
acility Street	2020	P.O. Box)			3. Contact Na	me		300 1	100		
107 Centra	l Ave.				Mailing Addre	**					
Municipality					PO Box 1						
Owen								State	Zip Code		
City U	illage 🗌 To	wn of:			Owen WI 54460						
Zip Code		County			County			Telephone No. (include are	ea code)		
54460		Clark			Clark			,			
4, Primary Ser	vice Contrac	tor Section A abou	ve /			ractor Street A					
SGS Envi	ronmenta	I Contracting	LLC			aytona Dr					
		one No. (include a	area code)			ractor City, Sta	ite, Zip Code				
715	) 539-280	3			Merrill W	1 54452					
C. TANK SY	STEM DETA	L (Complete for	all service activ	ities)							
a	b	c	d	e	f		g	h	it. Causes & Causes of		
	Type of	Tank	Piping Material of	Tank Capacity	Contents <sup>2</sup>	Release - System Integrity Compromised (e.g. holes,		If "Yes" to "g", Then Spec Relea	ise5		
Tank ID#	Closure <sup>1</sup>	Material of Construction	Construction	(gallons)	Odinojno		se connection, tc)?	Source of Release <sup>3</sup>	Cause of Release		
	P	54401	flex	6000	106	ΠY	DN				
	/	17.161	1111			DY	□N				
	-					OY	ПN				
		-				ΠY	□N				
			i			DY	Пи				
				i -		DY	□ N				
	L	5-2	t, TOS = Tempor	arily Out of Sa	onice CIP = CI	losure In-Place	)				
				- Par 110 - 11	alanded Caroli	no EO = Euol	Oil GH = Gast	ohol, AF = Aviation Fuel, K	= Kerosene, PX =		
Premix, WC	= Waste/Us	ed Motor Oil, FCI	HZW = Flammabl	le/Combustible	Hazardous Wa	iste, OC = Oti	ner Chemical (in	dicate the chemical name(s)			
CAS numbe	r(s):	The lite options that a series		No. of the last of							
3. Source of	f release: T	= tank, P = piping	, D = dispenser,	STP = subme	ersible turbine p	ump, DP = de	livery problem,	O = other, UNK = Unknow	n 		

4. Cause of release: S = spill. O = overfill, POMD = physical or mechanical damage, C = corrosion, IP = installation problem, O = other, UNK = Unknown

D. CLOSURES (Check applicable box at right in response to all statements in section D)  Written notification was provided to the local agent 5 days in advance of closure date.  All local permits were obtained before beginning closure.  UST Form TR-WM-137 or AST Form TR-WM-118 filed by owner with the DATCP indicating closure.  Y  NOTE: TANK INVENTORY FORM TR-WM-137 or TR-WM-118 SIGNED BY THE OWNER MUST BE SUBMITTED WITH EACHECKLIST	п	N □ NA CHANGE-IN-SE	RVICE
D.1 TEMPORARILY OUT-OF-SERVICE  1. Product removed.	Remover Verified	Inspector Verified	<u>NA</u>
Product lines drained into tank (or other container) and liquid removed, and	□Y □N		
b. All product removed to bottom of suction line, OR	□Y □N	OY ON	
c. All product removed to within 1" of bottom.	□Y □N	OY ON	
Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.		N Y	
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	DY DN	DY DN	
Dispensers/pumps left in place but locked and power disconnected.      Vent lines left open.		DY DN	
Inventory form filed indicating temporarily out-of-service (TOS) closure.		DY DN	
D.2. CLOSURE BY REMOVAL OR IN-PLACE  1. General Requirements	OY ON	N P	: [3]
Product from piping drained into tank (or other container).	ZYON	: BY ON	
Piping disconnected from tank and removed.	ØY ON	ØY □N	
<ul> <li>c. All liquid and residue removed from tank using explosion-proof pumps or hand pumps.</li> </ul>	ZYON	Y ON	
<ul> <li>d. All pump motors and suction hoses bonded to tank or otherwise grounded.</li> </ul>	ZY DN	DY ON	
<ul> <li>Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.</li> </ul>	ØY □N	DY DN	
f. Vent lines left connected until tanks purged.	□Y □N	NOYX	
g. Tank openings temporarily plugged so vapors exit through vent.	□У □И	DY DN	
h. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section E.  2. Specific Closure-by-Removal Requirements	ØY □N	; MY ON	
a. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent	ZÝON	, MY DN	
movement.	ZI LIN	ØY □N	
b. Tank cleaned before being removed from site.	ZYON	MY DN	
c. Tank labeled in 2" high letters after removal but before being moved from site.	ØY □N	N Y N	
NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.	, a		
d. Tank vent hole (1/8" in uppermost part of tank) installed prior to moving the tank from site.	OY ON	DY DN	
e. Site security is provided while the excavation is open.  3. Specific Closure-In-Place Requirements	■ V □ N	I AY DN	
NOTE: CLOSURES IN-PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTM CONSUMER PROTECTION (DATCP) OR LOCAL AGENT.  a. Tank properly cleaned to remove all sludge and residue.  b. Solid inert material (sand, cyclone boiler slag, or pea gravel recommended) introduced and tank filled.	ENT OF AGRIC	JLTURE, TRADE	AND
c. Vent line disconnected or removed.	OY ON	DY DN	
<ul> <li>d. Inventory form filed by owner with the DATCP indicating closure in-place.</li> </ul>	DY DN	□Y □N	7
E. REPAIR, UPGRADE OR CHANGE-IN-SERVICE  Written notification was provided to the local agent 5 days in advance of service date.  All local permits were obtained before beginning service.  Form TR-WM-137 or TR-WM-118 filed by owner with the DATCP indicating change-in-service.  F. METHOD OF VAPOR FREEING OF TANK  Displacement of vapors by eductor or diffused air blower.		M NA	
Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.  Inert gas using dry ice or liquid carbon dioxide.  Inert gas using CO <sub>2</sub> or N <sub>2</sub> NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. LEL METER THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT.  Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.  Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.  Readings of 10% or less of the lower flammable range (LEL) or 0% oxygen obtained before removing tank from ground.  Tank atmosphere monitored for flammable or combustible vapor levels prior to and during cleaning and cutting.  Calibrate combustible gas indicator and/or oxygen meter prior to use. Drop tube removed prior to checking atmosphere. upper portion of tank.	RS MAY NOT FU		
G. REMOVER/CLEANER INFORMATION			
George Frick Denny fut 401	100	11-20	-
Remover/Cleaner Name (print) Remover/Cleaner Signature Certific I attest that the procedures and information which I have provided as the tank closure contractor are correct and comply with A	ation No. TCP 93.	Date Sign	ned
Company expected to perform soil contamination assessment KY ENGINEAUNS FAC. (5	101241 Ex	1e 5/31/10	2/
H. INSPECTOR INFORMATION			
Rebecca Shervey Release Shewy Inspector Name (print)	401401	266 1804	2008
1010 715-829-4402	Passas Sella	11/20/17	yeney m
FDID # For Location Where Inspection Performed Inspector Telephone Number		Date Signed	

Part B – To be completed	d by environmental professiona	al								
Submit original Part B to	the WDNR along with a copy of	of Part A								
I. TANK-SYSTEM SITE ASSES	SSMENT (TSSA)									
Site Name: OW Sport &	k Liquor									
Address: 107 Central Avenu	ue, Owen, WI 54460									
	Note: Site name and address must match with Part A Section 1.									
OBVIOUS RELEASES FROM If a TSSA is required, the	s required, see Comm 10 and section II p M UNDERGROUND AND ABOVEGROU In follow the procedures detailed in ASSE GROUND AND ABOVEGROUND STOR.	IND STORAGE TANK SYSTEN ESSMENT AND REPORTING C	AS.							
1. Site Information										
	ously documented release at this site?									
If yes, provide the DSPS	6#, or	DNR BRRT's # 03-10-182097	7							
b. Number of active tanks <sup>1</sup>	6 #, or at facility prior to completion of current s	services USTs 1	ASTs							
(NOTE 1: Do not include prev	viously closed systems or system components	.)								
c. Excavation/trench dime	nsions (in feet). (Photos must be provide	ed.)								
EXCAVATION/TRENCH#	LENGTH	WIDTH	DEPTH							
EXONVATIONATIVEITOTTA	22110111									
Do any of the following co a. Stained soils: d. Free product in the ex 3. Geology/Hydrogeology a. Depth to groundwate (Note 2: Use these syn 4. Receptors a. Water supply well(s) b. Surface water(s) with 5. Sampling a. Follow the procedure UNDERGROUND A b. Complete Tables 1 a c. Attach a detailed ma	h Inspection (Photos must be provided on ditions exist in or about the excavation (Y \subseteq N \subseteq b. Petroleum odor: \subseteq Y \subseteq N \subseteq s. Petroleum odor: \subseteq N \subseteq N \subseteq S. Petroleum odor: \subseteq N	(s)?  N c. Water In excavation even or free product on water:  Dee of geology <sup>2</sup> silt and clay expropriate: $C = Clay$ , $SLT = Silt$ N If yes, specify Well for bate of the specify of the specific o	on/trench: Y N Y N  It, S = Sand, Gr = Gravel)  iit tank  O OBVIOUS RELEASES FROM							
	ERVATIONS, SPECIFIC PROBLEMS OF									
Petroleum system was rem	noved during completion of an approved	d remedial soil excavation for t	he open environmental investigation.							
Soil samples were collected ale	ong base of completed soil excavation and si	dewalls. WDNR Project Manager	on site during removal of petroleum system.							

Distribution: DATCP DNR Inspector Contractor Owner r

TABLE 1	SOIL FIEL	D SCREENING	G & (	3RO	/DR	O I AI	BORA	TO	RY ANA	ALYTICAL RE	SULTS	S-FOR PE	TROLE	JM PF	RODUCTS
		tion & Soil/Geol		3110			llection I			Depth Below		Field	GRO		DRO
Sample ID #		escription	ogic	Gra	ıb	Shelby	Dire Pus		Split Spoon	Tank/Piping (feet)	F	Result (ppm)	(mg/k	319a	(mg/kg)
CSS-1	Tank Bed Bel	ow UST / Brown Cla	ay	X	]			]		3'		104.7			
					]			]							
				-	1	⊢		1	-						_
			_	늗	1	H		<u>J</u>	-H		-				
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				H	†	$-\Box$		1							
					Ī			_							
	TABL	E 2 SOIL LA	BOF	RATO	OR۱	/ ANA	LYTIC	AL	RESUL	TS-FOR PET	ROLE	UM PROD	UCTS		
Sample ID#	BENZENE	TOLUENE	ETI	HYLE	BEN	ZENE		MT	BE	TRIMETH' BENZEN (TOTAL	ES	XYLEI (TOT		NAP	HTHALENE
10#	ug/kg	ug/kg		ug	g/kg			ug	/kg	ug/kg	-	ug/k	g		ug/kg
CSS-1	<25.0	<25.0		2,	630			53	3.7	12,240		8,34	14		2,910
		/													
								_							
			_											-	
			_											-	
			_											-	
			-				-	_						-	
								_						-	
								_							
K. TANK-	SYSTEM SITE	ASSESSMENT	INFO	RMA	ATIC	N									
☐ As a t	ank-system site	assessor certif	ied ur	nder \	Nis.	Admin	. Code	sec	ction Con	nm 5.83, it is my	opinio	n that there	is no ind	ication	of a releas
of a regula	ted substance t	to the environme	ent.												
Samp	ling at the site in	ndicates there h	as be	en a	rele	ase to	the env	riror	nment. F	ursuant to Wis.	Admin.	Code secti	on Comr	n 10.58	35 (2) (a)
and Mie S	tate section 20	2 11 (2) (a) the	owne	er or	one	rator or	contra	ctor	r perform	ing work under	chapter	Comm 10	shall imm	rediate	ly report an
release of \$10 and a	a regulated sub	stance to the V 5000 for each vid	/iscon	ısın D 1 und	epa ler V	artment Vis. Sta	of Nati	urai tion	101.09	es. Failure to d (5). Each day o	f contin	ued violatio	n and ea	ch tank	are treate
	e offenses.			,		11	1								
David I	_arsen				1	1//	No.	_				4	40124	1	
1,000		or Name (print)		-	T	ank-Sy	stem S	ite /	Assessor	Signature	_	20	Certifica	ation N	umber#
	675-9784					,	1-31-1	10	;		RE	I Engine	ering,	Inc.	
		or Telephone N	lumbe	er er					gned				npany Na		
-101															



Wisconsin Department of Agriculture, Trade and Consumer Protection Bureau of Weights and Measures PO Box 7837 Madison, WI 53707-7837 FOR OFFICE USE ONLY
TDID#:

Reg Obj #:

Wis. Admin. Code \$ATCP 93.140

(608) 224-4942

## UNDERGROUND FLAMMABLE/COMBUSTIBLE/HAZARDOUS LIQUID STORAGE TANK REGISTRATION

Personal information you provide may be used for purposes other than that for which it was originally collected (s. 15.04(1)(m) Wis. Stats.).

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. A separate form is needed for each tank. Send each completed form to the agency designated above. Have you previously registered this tank by submitting a form? Yes No

If yes,	are you correcting/updating	information only?  Yes	S □ No				
This registration applies to a tank status that is (check one)							
	ndoned with Product (empty)	<u> </u>	led with Inert Materia				
	ndon with Water sed - Tank Removed		Change (Indicate new Out of Service – Prov		block 2	- attach	deed)
		ILLAGE Owen	Out of Service - Prov	nde Date:			
DENTIFICATION (Please Print)							
1, TANK SITE NAME		COUNTY		PHONE			
O & W Sports & Liquor		Clark		( ) .			
SITE STREET ADDRESS			LAGE TOWN	F:	STATE	ZIP	
107 Central Ave.		Owen			WI	54460	)
2. TANK OWNER LEGAL NAME		COUNTY		PHONE: Che	ck 🗆 C	ELL or	LAND
Jacalyn Reinke		Clark		()			
MAILING ADDRESS		☐ CITY ☐ VIL	LAGE TOWN	OF:	STATE	ZIP	
PO Box 147		Owen			WI	54460	)
3. PROPERTY OWNER NAME (if different from Tank Owne	r Legal Name #2)	COUNTY (if diffe	rent from County #2)				
PROPERTY OWNER ADDRESS (if different from Site St	reet Address #1)	CITY UVIL	LAGE TOWN		STATE WI	ZIP	
4. CLASS A NAME	DOB	1	CERTIFICATION:				
5. CLASS B NAME	DOB		CERTIFICATION:	(Attach certifica	te)		
SITE ID:	FACILITY ID # 115042		CUSTOMER ID #				
Tank Capacity (gallons): 6,000	Tank Age (age or date inst	alled): 10/1/1984		Vehicle fueling	: 🛛 Ye	es 🗆 I	No
LAND OWNER TYPE (check one) Refer to back							TOTAL CONTRACTOR OF THE PARTY O
☐ County ☐ State ☐ Federal L	eased	☐ Tribal Nation ☐ N	Tunicipal [	Other Govern	ment	⊠ Priva	ate
OCCUPANCY TYPE (check one) Refer to back							
☐ Retail Fuel Sales ☐ Mercantile/Commercial	☐ Industrial ☐ Reside	ntial	☐ Utility ☐ G	overnment Flee	t		
☐ Agricultural (crop or livestock production) ☐ Bar	ckup or Emergency Generator	Other (specify):					
TANK CONSTRUCTION:			C	verfill Protection	17 [	⊠ Yes	□No
☐ Bare Steel ☐ Coated Steel ☐ Steel - Fiber	glass Reinforced Plastic Compo	site	s	pill Containmen	t? [	⊠ Yes	□ No
☐ Fiberglass ☐ Unknown ☐ Other (specif	y):	Lined (date):	Т	ank Double Wa	lled? [	☐ Yes	⊠ No
TANK CATHODIC PROTECTION: Sacrificial And	odes	□ N/A				District	100 1000
PRIMARY TANK LEAK DETECTION METHOD: Auto	matic tank gauging   Interst	itial monitoring ⇒ Electronic	☐ Yes ☐ No	☐ Inventory cor	ntrol and	tightness	s testing
☐ Manual tank gauging (only for tanks of 1,000 gallons or I	ess) Statistical Inventory	Reconciliation (SIR) Un	known				
PIPING CONSTRUCTION: ☐ Single Wall ☐ Double Wa	all:						
☐ Bare Steel ☐ Coated Steel ☐ Fiberglass		☐ Unknown ☐ N/A	Other:				
PIPING CATHODIC PROTECTION: Sacrificial Anode	es Impressed Current	□ N/A					
PRIMARY PIPING SYSTEM TYPE: Pressurized pipi	ing with   □ A. Pump auto si	hutoff - ELLD B. Flow re	estrictor - MLLD	☐ Unkr	nown		
☐ Suction piping with check valve at tank	☐ Suction piping with check			Not needed if wa	aste oil		
PIPING LEAK DETECTION METHOD:   Interstitial more	nitoring	☐ No    Sump or cable s	ensor Yes I	No			
☐ Tightness testing ☐ Electronic line monitor	or-ELLD SIR		Not required		known		
TANK CONTENTS (Current, or previous product (if tank no	ow empty))	eaded 🛛 Unleaded	☐ Gas-ethano	ol blend: %	1	☐ Diesel	
☐ Bio-Diesel: % ☐ Aviation ☐ Premix	☐ Fuel Oil ☐ K	erosene	☐ New oil – F	lash point less	han 200	oF.	
☐ Waste/Used Motor Oil ⇔ ☐ Used for Heating	☐Hazardous Waste/Int	erface*	☐ Sand/Grav	e/Slurry*	☐ Un	known	
Other (specify):	☐ Chemical* Name		CAS#				
* NOT PECFA eligible.	Geo Latitude:		Geo Longitude:				
If Tank Closed, Abandoned or Out of Service: // - 2	10-17 H	as a site assessment been d	completed? (see rev	erse side for de	tails) 🛭	Yes [	□ No
TANK OWNER LEGAL NAME (please print) Sacalyn C Reinte	Т	ANK OWNER E-MAIL					
TANK OWNER SIGNATURE (Note: By signing, signer is a	ccepting legal and financial resp	ponsibility for the storage tank	system.)	DATE:	11-	21-	17
WILL VII COMMENT							1 /