Meridian Environmental Consulting, LLC

September 9, 2016

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, Wisconsin 54501

Subject: **Soil and Ground Water Investigation Report**
Olson & Goodman, Inc
328 S. Hwy 13
Stetsonville, Wisconsin 54480
PECFA No. 54480-9742-28
DNR BRRTS No. 03-61-563926
Meridian No. 05F807

Dear Carrie:

This Site Investigation Report describes the site investigation work completed at the above referenced site.

Based on the work completed to date, we recommend the following additional activities:

- Excavate former tank basin to the extent possible
- Install additional monitoring wells to define the horizontal extent of impacted ground water
- Sample monitoring well network twice (quarterly)
- Conduct hydraulic conductivity tests
- Conduct vapor intrusion investigation of adjacent residence (108 Mink Ave)

A Change Order for the above recommendations is included with this report.

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BACKGROUND INFORMATION

Site Description

The site is a commercial property located at 328 South State Hwy. 13 in the Village of Stetsonville, Wisconsin (Taylor County)(Figures 1 and 2).

Olson & Goodman, Inc. (hereinafter 'Olson & Goodman') formerly operated a beverage distribution business at the property. The beverage distribution business has ceased operations but Olson & Goodman retain ownership of the property.

The Olson & Goodman property consists of three adjacent tax parcels (Parcel ID Nos. 181001240000, 181001250000, 181001970000 – see figure in Appendix A). The property is approximately .36 acres.

There are two large warehouse buildings located on the property (Figure 3). The buildings are built on raised concrete slabs. The parking area in front (west) of the buildings is paved. Surface runoff collects in a storm sewer between the two buildings.

The site is located at the southern end of Stetsonville. A small apartment building is located immediately north of the property. Single family residences are located east and south of the property. State Hwy 13 forms the western boundary of the property.

Onsite Utilities

The property is connected to the Village sanitary and water supply systems (Figure 3). There is electrical, natural gas, and telephone service. A storm sewer drain is located adjacent to the buildings.

Underground Storage Tanks

There was a buried underground storage tank (500 gallon gasoline) in use at the south end of the parking area (Figure 3). The tank was used to fuel vehicles during business operations. This tank was removed November 12, 1992.

There are reports that a diesel tank was buried along the south side of the property (Figure 3). The tank was believed to have been removed in the late 1960's/early 1970's. No further information has been found regarding this tank.

Other Environmental Investigations in the Vicinity

There have been several leaking underground storage tank sites in the area (see map in Appendix A). The nearest site is Ed's Service located immediately north of the Olson & Goodman property (Appendix A and Figure 2).

SITE INVESTIGATION

Soil Investigation

Soil borings were installed in the former tank areas. Figure 3 illustrates the location of these borings. Soil boring logs are provided in Appendix B.

Soil samples were collected from the soil borings at selected intervals. The analytical reports are provided in Appendix C and summarized in Table 1.

Monitoring Wells

The monitoring well network (MW-1, 2R, 4, 5, 6, 7, 7P, 8, 8P, 9, 9P, PZ-1) installed as part of the site investigation of the adjacent Ed's Service property (Figure 2) provides current hydrogeologic and water quality information which can be used to guide the Olson & Goodman investigation. Appendix A contains ground water quality data from the Ed's Service site.

A monitoring well OG-1 was installed October 16, 2015 in the former tank basin. The soil boring log and well construction forms are provided in Appendix B. This well is labelled "OG" (Olson Goodman) to avoid confusion with the Ed's Service wells.

Monitoring wells MW-7, MW-7P, MW-9, MW-9P are located on Olson Goodman property and were incorporated into the Olson Goodman site investigation. The Ed's Service site is nearing Closure and these four wells will be transferred to the Olson Goodman site. The soil boring and well forms for these four wells are included in Appendix B.

Ground Water Sampling

The monitoring well OG-1 was sampled November 5, 2015, March 30 & June 14, 2016. The analytical reports are provided in Appendix C and summarized in Table 2.

LNAPL (free product – 1 inch) was measured in MW-1 during the June 14, 2016 sampling event.

The Ed's Service wells were also sampled June 14, 2016. The analytical data from these wells are summarized in Appendix A.

Ground Water Level Measurements

The well elevations and locations were surveyed relative to the wells from the adjacent Ed's Service site. The depth to water was measured during each sampling event. The results are presented in Table 3.

Vapor Intrusion

The former tank basin is very close to the residence located at 108 Mink Ave (Figure 2). The building at 108 Mink Ave is an occupied residence. It is constructed on a cement slab.

Due to the presence of LNAPL and shallow, impacted ground water beneath to the residence, an air sample was collected October 16, 2015 from a vapor probe adjacent to OG-1. The analytical report is provided in Appendix C and summarized in Table 4.

There were no impacts measured in the air sample. However, the sample was collected during very wet conditions and water entered the tubing during sampling. Therefore, the air sample is likely not representative of vapor conditions beneath the adjacent residence. Further vapor intrusion investigation is needed.

DATA EVALUATION

Regional Description

The surrounding region is primarily agriculture. Stetsonville is located at a drainage divide between the Black River watershed (to the north and west) and the Big Eau Pleine River watershed (to the south).

Wetlands are located south and east of the village connecting to the West Branch of the Big Eau Pleine River which drains to the south.

The surface topography around Stetsonville is relatively flat. The topography in the Village slopes gently to the south.

Hydrogeology

Based on nearby well logs (Appendix D), the site is underlain by 50 - 60 feet of glacial sediments resting on granite bedrock. The glacial sediments are layered fine sand and clays. Figure 4 is a cross-section of the site geology.

Ground water is found within 5 feet below grade with a southeasterly flow direction (Figure 5).

There is a sump pump system at the loading platform next to the former diesel tank (Figure 3). This may influence ground water flow locally.

Extent of Impacted Soil

Petroleum impacted soils are located in the former gasoline tank basin area. Figure 6 illustrates the estimated extent of these impacts. The impacted soils are located immediately adjacent to the residence at 108 Mink Ave. These impacted soils should be removed.

Impacted soils were also measured in soil samples from boring GP-7 (Table 1 and Figure 3). These impacts may be associated with the former diesel tank. Alternatively, the impacts could be from ground water impacted by the gasoline tank. The source of the impacts in GP-7 can be determined by installing a monitoring well in the GP-7 area.

Extent of Impacted Ground Water

Figure 7 illustrates the estimated extent of ground water impacts from the gasoline tank. More monitoring wells are needed to define the downgradient extent of impacted ground water. Figure 7 includes proposed well locations.

Petroleum impacts may extend from Ed's Service property onto the northern edge of the Olson & Goodman property (downgradient from MW-4 and PZ-1 – Figure 2). However, the two plumes do not appear to intersect based on the data from MW-7 and MW-7P.

MTBE concentrations above NR140 Enforcement Standards have been measured repeatedly in monitoring well MW-9P (Table 2) which was installed as part of the Ed's Service investigation. The source of the MTBE was originally interpreted to be from Ed's Service but the data from OG-1 indicates the Olson Goodman gasoline tank is the likely source of the MTBE in MW-9P.

The ground water level measurements indicate a downward vertical gradient at the site. This explains why MTBE is found in MW-9P (screened 30 – 35 ft below grade) but not in MW-9 (screened 5 – 20 feet below grade). Due to the downward vertical gradient and downward transport of contamination, piezometers should be nested with the monitoring wells recommended below.

Vapor Intrusion Investigation

As noted above, a vapor probe was installed adjacent to OG-1. Table 4 summaries the analytical data from this probe. The vapor probe was unsuccessful due to the wet soil and shallow depth to ground water causing water to enter the probe.

Because of the shallow depth to contaminated ground water, we recommend at least two subslab vapor monitoring ports be installed inside the residence located at 108 Mink Ave. These sample ports should be sampled at least twice (fall, winter) for PVOC (TO-15).

CONCLUSIONS AND RECOMMENDATIONS

The former gasoline tank leaked petroleum and contaminated the soil and ground water. The extent of impacted ground water needs to be defined with more monitoring wells.

There may be impacts from the former diesel tank. However, they appear limited to the GP-7 area. These impacts will be evaluated further by installing a monitoring well/piezometer nest at this location.

We recommend the following actions at this site:

- The impacted soil should be excavated from the former gasoline tank area. We recommend an excavation 30 ft x 30 ft x 15 ft (approximately 750 tons). Monitoring well OG-1 will be destroyed during this excavation. This well will be replaced as part of the tasks below.

- The extent of impacted ground water needs to be defined with downgradient monitoring well/piezometers in the locations shown in Figure 7. Piezometers are needed due to the documented downward vertical gradient and contaminant transport. The monitoring well

OG-1 will be replaced during this task. The monitoring wells' elevations and locations will be surveyed.

- The monitoring wells will be sampled twice (quarterly) for PVOC+Naphthalene.
- Hydraulic conductivity tests will be conducted in four wells (two water table wells and two piezometers).
- Subslab vapor ports will be installed in the floor of the 108 Mink residence. The ports will be sampled twice (fall, winter) and analyzed for PVOC (Method TO-15).

A Change Order for the proposed work is included with this report.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

C: Olson & Goodman, Inc.

TABLES

Table 1: Soil Analytical Results
Olson Goodman Inc
Stetsonville, WI
Meridian No. 05F807

Sample	PID	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMBs	1,2,4-TMB	1,3,5-TMB	Xylene (Total)	m&p-Xylene	o-Xylene
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Soil Standards												
NTEDC		1490	7470	59400	5150	81800		89800	182000	258000		
RCL (soil to GW)		5	1570	27	659	1107				3940		
October 16, 2015 Geoprobe Borings												
1: 3-4	70	<1000	53100	<1000	37100	12600	308000	227000	80500	223000	144000	79000
1: 7-8	40	353	5150	118	2110	546	18600	13000	5620	14300	12700	1570
1: 11-12	20	505	57.1	<25	90	<25	<50	<25	<25	<75	<50	<25
1: 15-16	10	1570	435	30	140	<25	<50	58.5	<25	<75	<50	<25
1:18-19	2	56.9	<25	112	<25	<25	161	116	45.2	<75	57.6	<25
2:3-4	100	13000	52600	<2500	116000	243000	965000	712000	253000	899000	598000	302000
2:7-8	160	2460	1410	<25	767	7050	4560	3420	1140	7860	5660	2200
2:11-12	30	2850	701	42.5	423	1280	1320	962	356	2020	1650	366
2:15-16	120	14500	25300	826	9570	65500	78200	57900	20300	120000	91200	28900
3: 3-4	12	1900	2570	<25	2890	243	9550	7190	2350	11200	8340	2910
3: 7-8	1	59.7	86.8	<25	40.2	<25	<50	47.9	<25	<75	<50	<25
3:11-12	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
4: 3-4	50	2880	584	<25	94.7	198	974	724	251	2510	1740	766
4: 7-8	150	23200	40600	1000	14700	133000	119000	89100	30300	208000	153000	55200
4: 11-12	25	<25	<25	62.8	<25	<25	<50	<25	<25	<75	<50	<25
5: 3-4	100	3280	19400	<625	35100	86600	341000	251000	90100	399000	238000	161000
5: 7-8	170	4350	13800	406	5570	43100	49300	36600	12700	69900	49200	20700
5: 11-12	100	4230	790	318	345	2250	1490	1110	383	3550	2700	849
6: 3-4	0	<25	55	<25	<25	170	138	97.3	40.4	295	223	72.7
6: 7-8	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
6: 11-12	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
7: 3-4	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
7: 7-8	25	<50	2880	353	1860	108	9970	5870	4100	3130	3050	81.2
7: 11-12	50	<50	2560	409	1360	209	8130	3960	4170	3280	3070	211
8: 3-4	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
8: 7-8	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25
9: 3-4	0	<25.5	<25.5	<25.5	<25.5	<25.5	<51	<25.5	<25.5	<76.5	<51	<25.5
9: 7-8	0	<25	<25	<25	<25	<25	<50	33.1	<25	<75	<50	<25
9: 11-12	0	<25	<25	<25	<25	<25	<50	<25	<25	<75	<50	<25

5: 3-4 refers to soil boring GP-5: depth interval 3 -4 ft below grade

Table 2: Ground Water Analytical Data

Olson Goodman
Stetsonville, WI
Meridian No. 05F807

Well	Units	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene	EDB	1,2-DCA
NR140 ES	ug/l			**480**	**5**	**700**			**2000**	**60**	**100**	**800**	**0.05**	**5**
NR140 PAL	ug/l			*96*	*0.5*	*140*			*400*	*12*	*10*	*160*	*0.005*	*0.5*
OG-1 (installed Oct 16, 2015)														
11/5/2015		2300	704	**3004**	**22200**	**2670**			**18100**	**890**	**709**	**37600**	NA	NA
3/30/2016		6740	6740	**13480**	**22900**	**5240**			**30000**	**201**	**4960**	**61800**	NA	NA
6/14/2016		15400	15400	**30800**	**27200**	**9590**			**53200**	**<485**	**3130**	**81400**	NA	NA
MW-7 (installed Feb. 20, 2008)														
3/3/2008	ug/l	3.01	2.31	5.32	<.2	0.24	0.79	0.46	1.25	<.5	0.275	0.47	<.3	<.3
6/17/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	0.025	<.4	<.3	<.3
9/29/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.117	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.117	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
7/22/2009	ug/l	<.2	<.2	<.2	0.22	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/14/2016	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	0.23	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	0.44	<.39	NA	NA
MW-7P (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	*3.29*	<.2	<.4	<.2	<.4	<.5	<1	0.51	<.3	*1.22*
6/21/2010	ug/l	<.2	<.2	<.2	*2.23*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.35*
9/20/2010	ug/l	<.2	<.2	<.2	*1.38*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.07*
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.15*
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
5/10/2012	ug/l	<.2	<.2	<.2	**6.13**	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	*1.44*
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	1.1	<.5			<1.5	<.17	NA	<.5	NA	*1.5*
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-9 (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
5/10/2012	ug/l	<.2	<.2	<.2	*0.87*	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-9P (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	*0.54*	<.2	<.4	<.2	<.4	**88.8**	<1	<.4	<.3	*1.63*
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**142**	<1	<.4	<.3	*3.56*
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**99.7**	<1	<.4	<.3	*2.96*
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**111**	<1	<.4	<.3	*3.58*
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**69.5**	NA	<.4	NA	*2.92*
5/10/2012	ug/l	<.2	<.2	<.2	0.49	<.2	<.4	<.2	<.4	**171**	NA	<.4	NA	*1.73*
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	**141**	NA	<.5	NA	*2.3*
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	**146**	NA	<.5	NA	3.3
3/30/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	**106**	<.42	<.39	NA	NA
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	**83.3**	NA	<.39	NA	NA

10 concentration exceeds NR140 Enforcement Standard (ES)
10 concentration exceeds NR140 Preventative Action Limit (PAL)
NA - parameter not analyzed

Table 3: Ground Water Level Measurements
Olson Goodman Inc
Stetsonville, WI
Meridian No. 05F807

OG-1 (installed October 16, 2015)		
Surface Elevation (ft)		98
Top of Casing elevation (ft)		97.73
Top of Screen Elevation (ft)		92.73
Bottom of Screen Elevation (ft)		82.73
Measurement Date	DTW (ft)	GW Elev (ft)
11/5/2015	4.42	93.31
3/30/2016	3.78	93.95
6/14/2016 (**1 inch LNAPL**)	3.1	94.63

MW-7 (installed Feb. 20, 2008)		
Surface Elevation (ft)		98
Top of Casing elevation (ft)		97.87
Top of Screen Elevation (ft)		92.87
Bottom of Screen Elevation (ft)		77.87
Measurement Date	DTW (ft)	GW Elev (ft)
6/14/2016	1.59	96.28

MW-7P (installed Jan. 22, 2010)		
Surface Elevation (ft)		97.25
Top of Casing elevation (ft)		97.1
Top of Screen Elevation (ft)		67.1
Bottom of Screen Elevation (ft)		62.1
Measurement Date	DTW (ft)	GW Elev (ft)
6/14/2016	6.25	90.85

MW-9 (installed Jan. 22, 2010)		
Surface Elevation (ft)		96
Top of Casing elevation (ft)		95.92
Top of Screen Elevation (ft)		90.92
Bottom of Screen Elevation (ft)		75.92
Measurement Date	DTW (ft)	GW Elev (ft)
6/14/2016	4.88	91.04

MW-9P (installed Jan. 22, 2010)		
Surface Elevation (ft)		96
Top of Casing elevation (ft)		95.75
Top of Screen Elevation (ft)		65.75
Bottom of Screen Elevation (ft)		60.75
Measurement Date	DTW (ft)	GW Elev (ft)
6/14/2016	3.3	92.45

Table 4: Vapor Probe Sample
Olson Goodman Inc
Stetsonville, WI
Meridian No. 05F807

Parameter	Result	Units
Benzene	<3.4	ug/m^3
Ethylbenzene	<11.8	ug/m^3
MTBE	<8.4	ug/m^3
Toluene	<4.3	ug/m^3
1,2,4-TMB	<3.5	ug/m^3
1,3,5-TMB	<5.1	ug/m^3
m&p-Xylene	<21.9	ug/m^3
o-Xylene	<9.8	ug/m^3

Soils very wet caused water to enter probe/tubing. Sample may not be representative of soil vapor

FIGURES

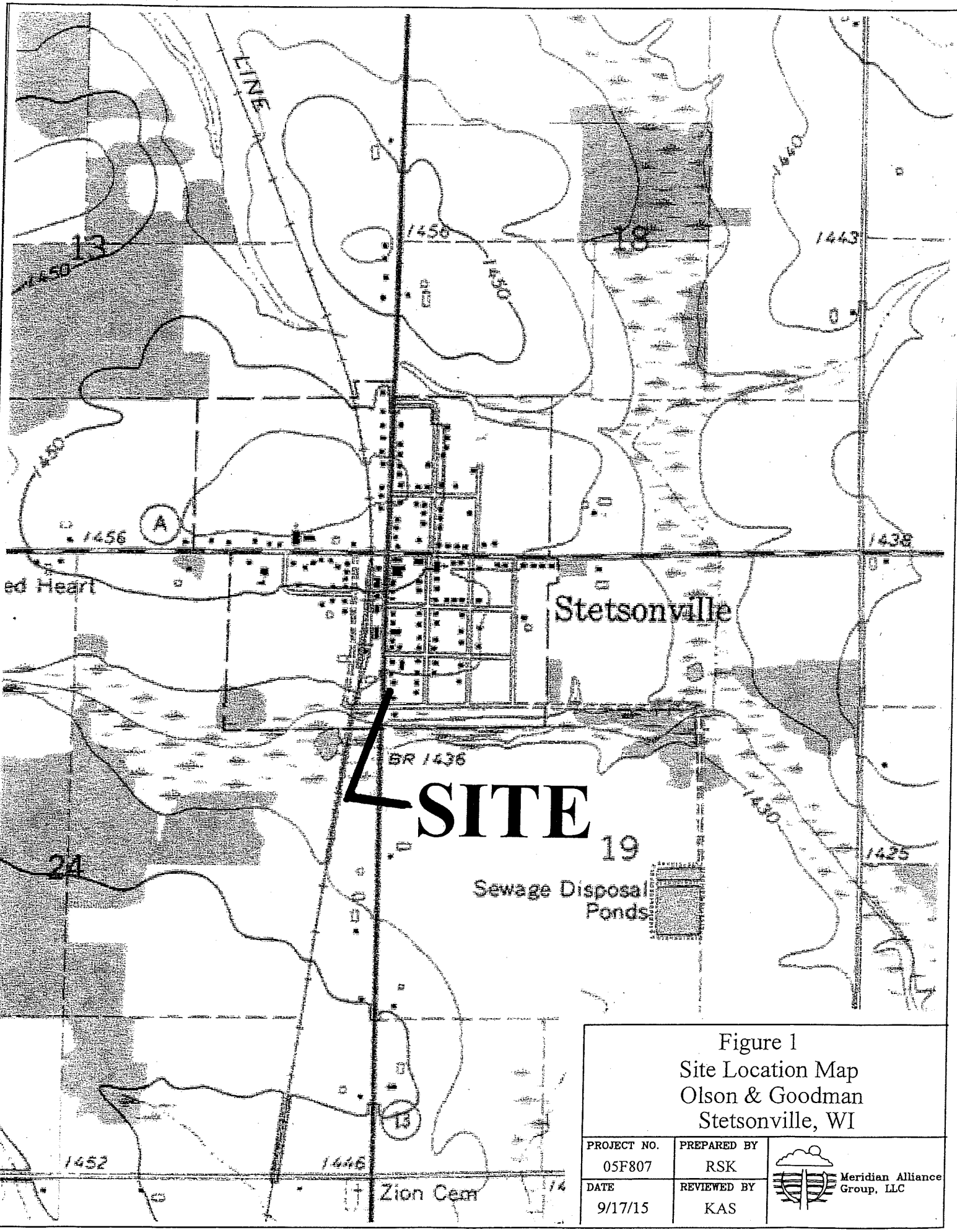
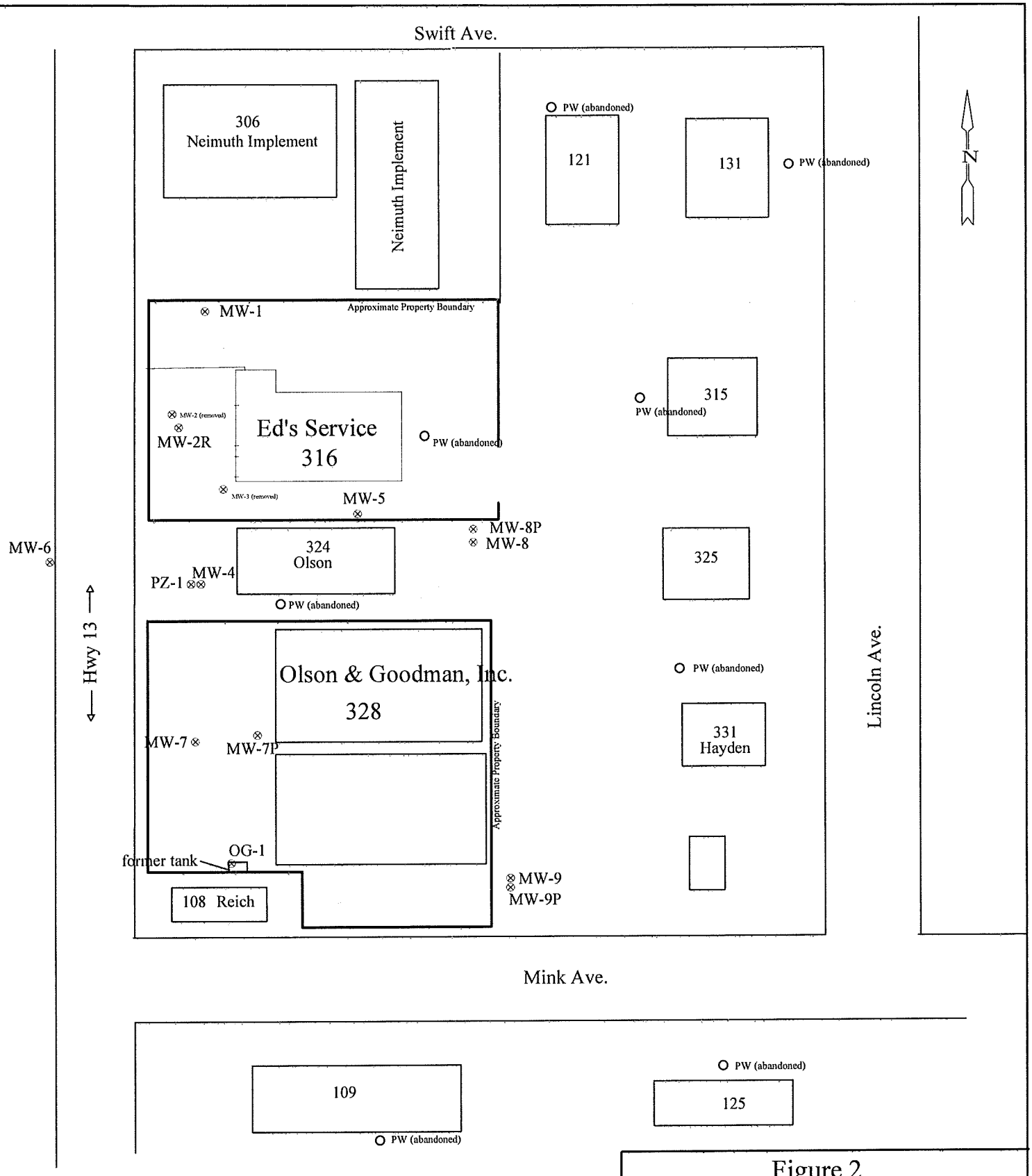


Figure 1
Site Location Map
Olson & Goodman
Stetsonville, WI

PROJECT NO.	PREPARED BY	
05F807	RSK	Meridian Alliance Group, LLC
DATE	REVIEWED BY	
9/17/15	KAS	



LEGEND

⊗ MW-1 Monitoring Well

○ PW Private Water Well

0 100 (ft)

approximate scale (ft)

Figure 2
Vicinity Map
Ed's Service/Olson Goodman
Stetsonville, WI

PROJECT NO.	PREPARED BY
05F684/807	KAS
DATE	REVIEWED BY
9/5/16	KAS

Meridian Environmental Consulting, LLC

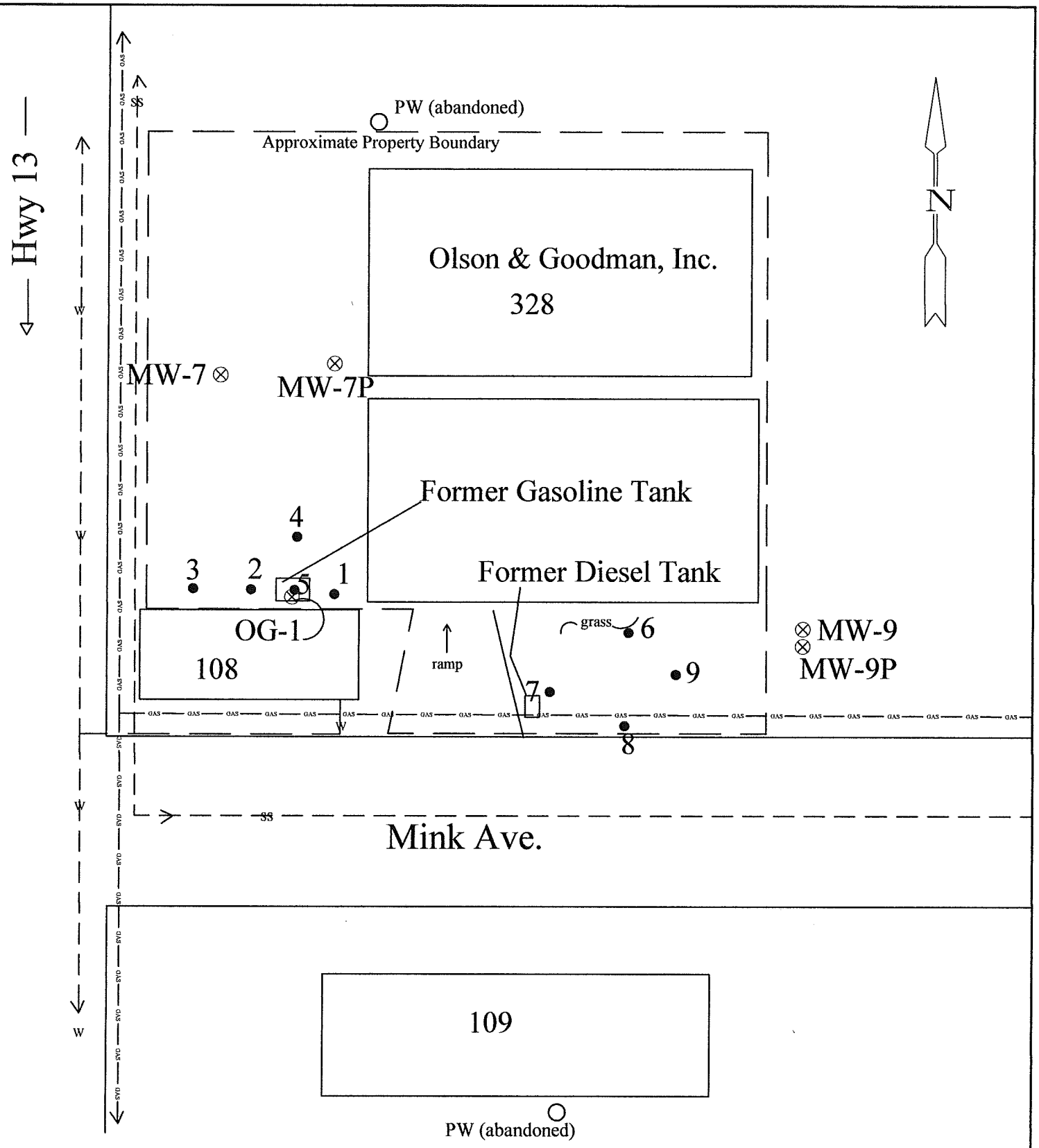


Figure 3
Site Map
Olson & Goodman
Stetsonville, WI

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05F807	KAS
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9/6/16	KAS

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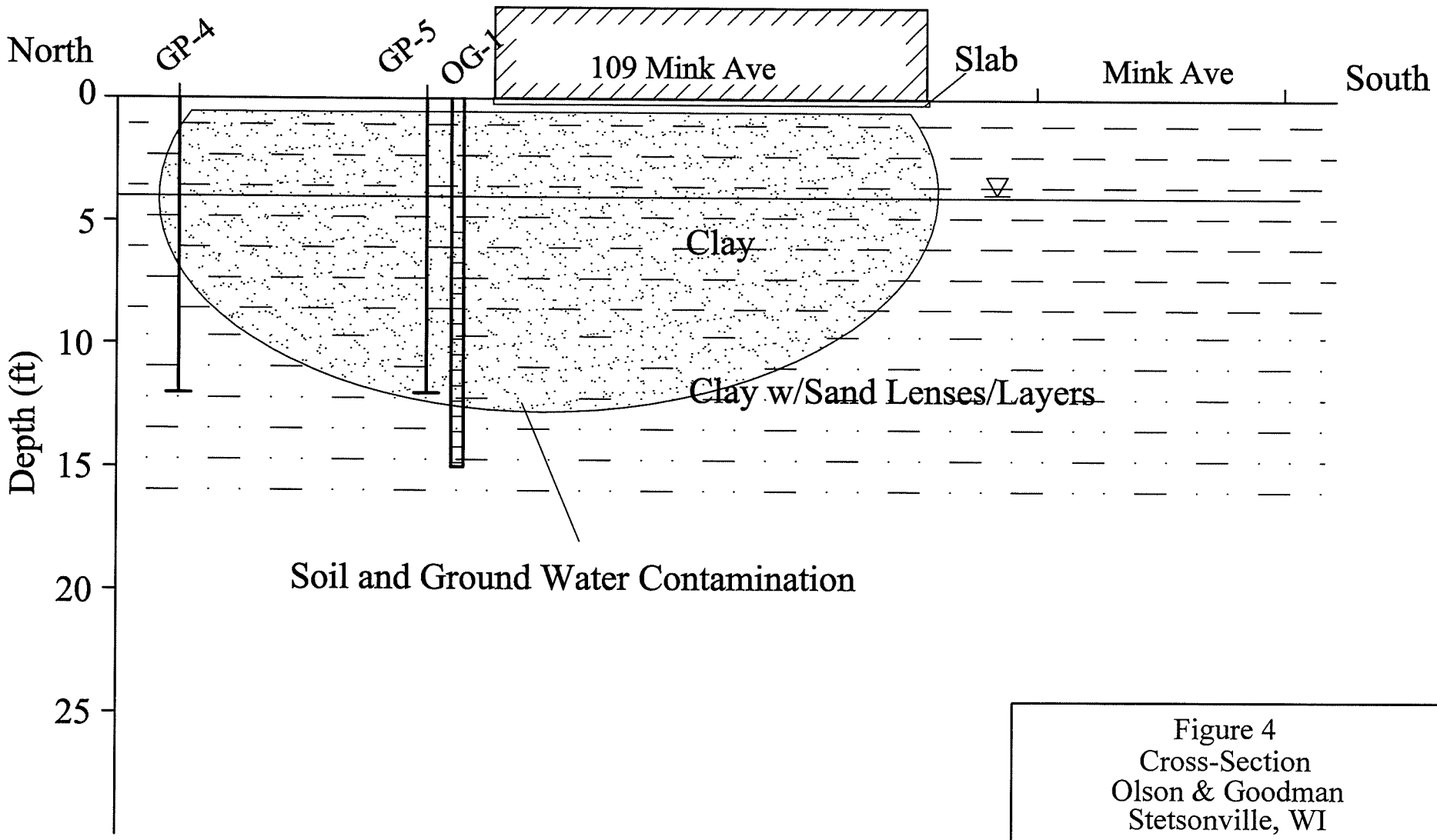

Figure 4
Cross-Section
Olson & Goodman
Stetsonville, WI

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9/9/16	KAS

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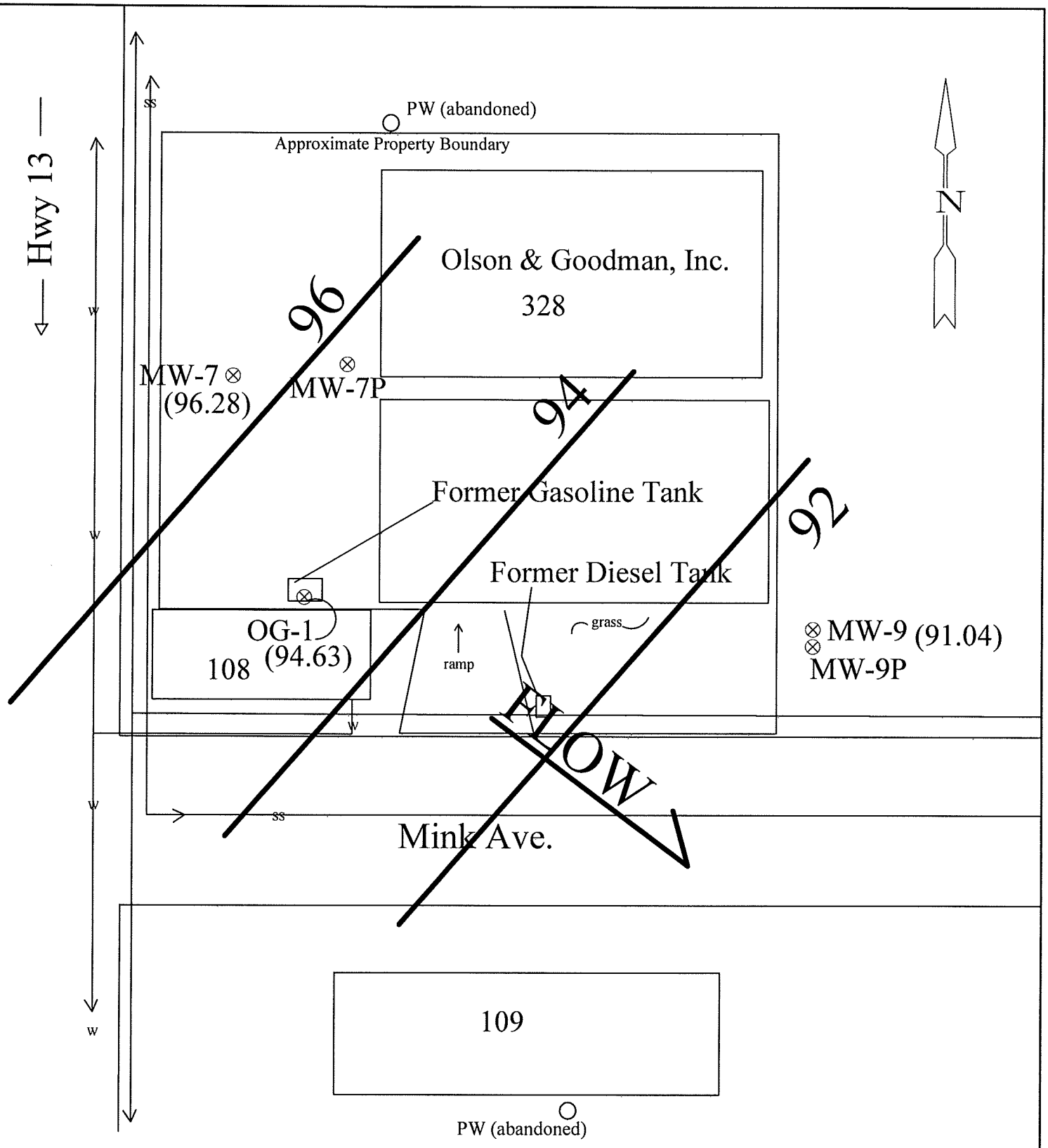

0 50

feet

Geoprobe Boring

⊗ Monitoring Well

Figure 5
Ground Water Flow Map
Olson & Goodman
Stetsonville, WI

PROJECT NO.	PREPARED BY
05F807	KAS
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9/6/16	KAS

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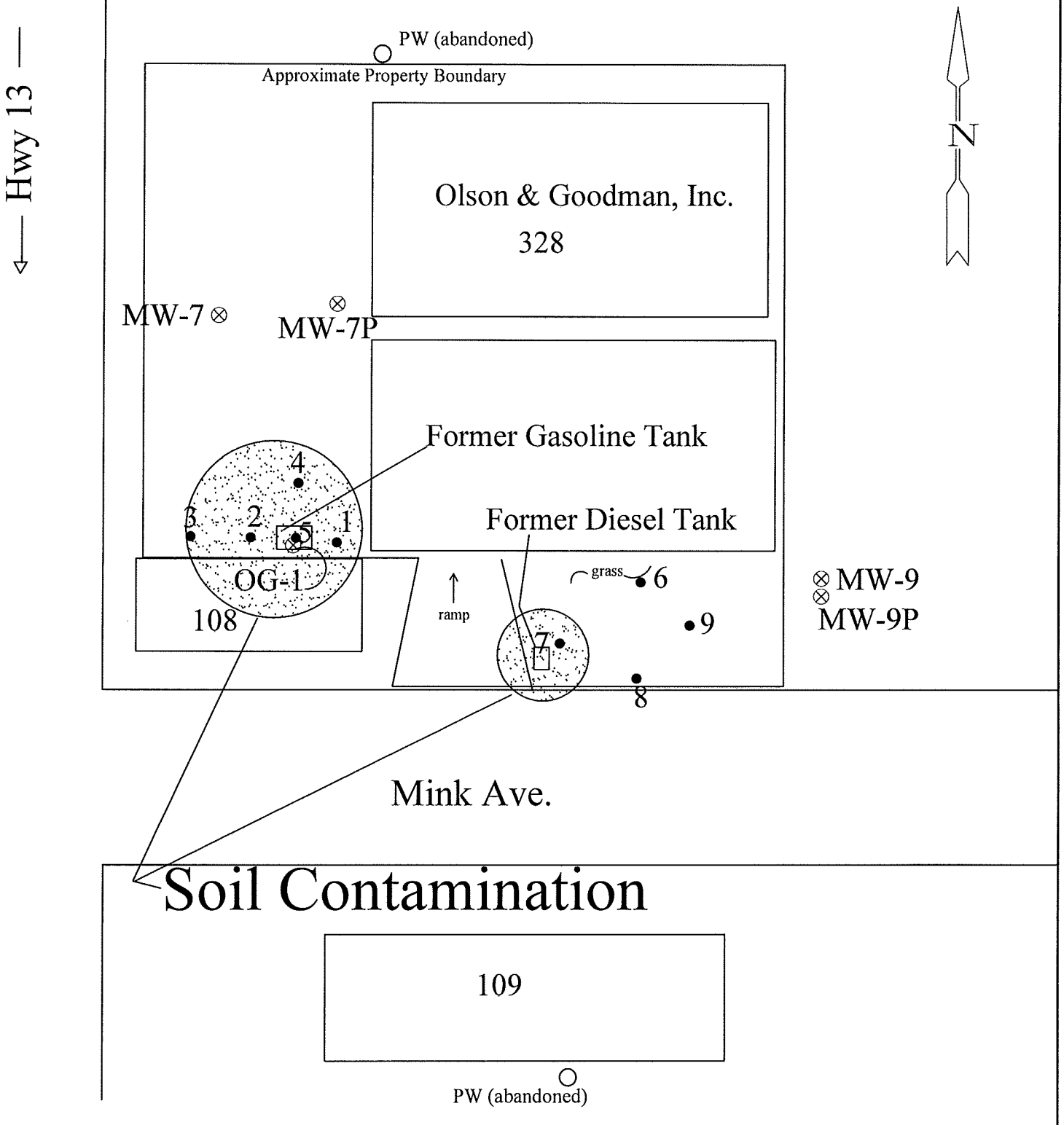

0 50

feet

4 • Geoprobe Boring

⊗ Monitoring Well

Figure 6
Extent of Soil Contamination
Olson & Goodman
Stetsonville, WI

PROJECT NO.	PREPARED BY
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9/6/16	KAS

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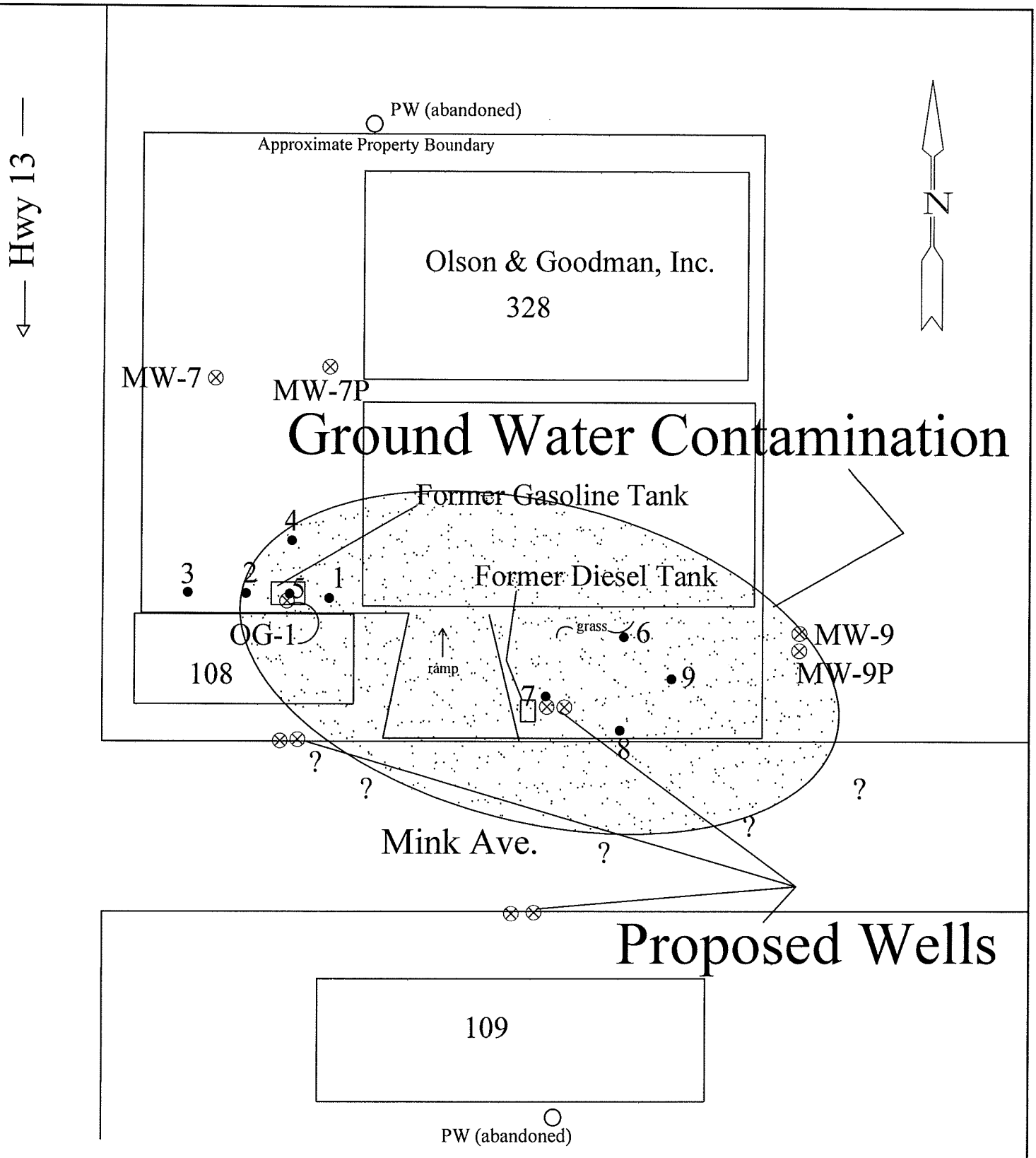

Figure 7
Ground Water Contamination
Olson & Goodman
Stetsonville, WI

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Meridian Environmental Consulting, LLC

APPENDIX A

Map of Nearby Environmental Sites
And
Data from Ed's Service Site

Nearby Environmental Sites

Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (S
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway
- County and Local Roads

Notes

0.1 0 0.05 0.1 Miles

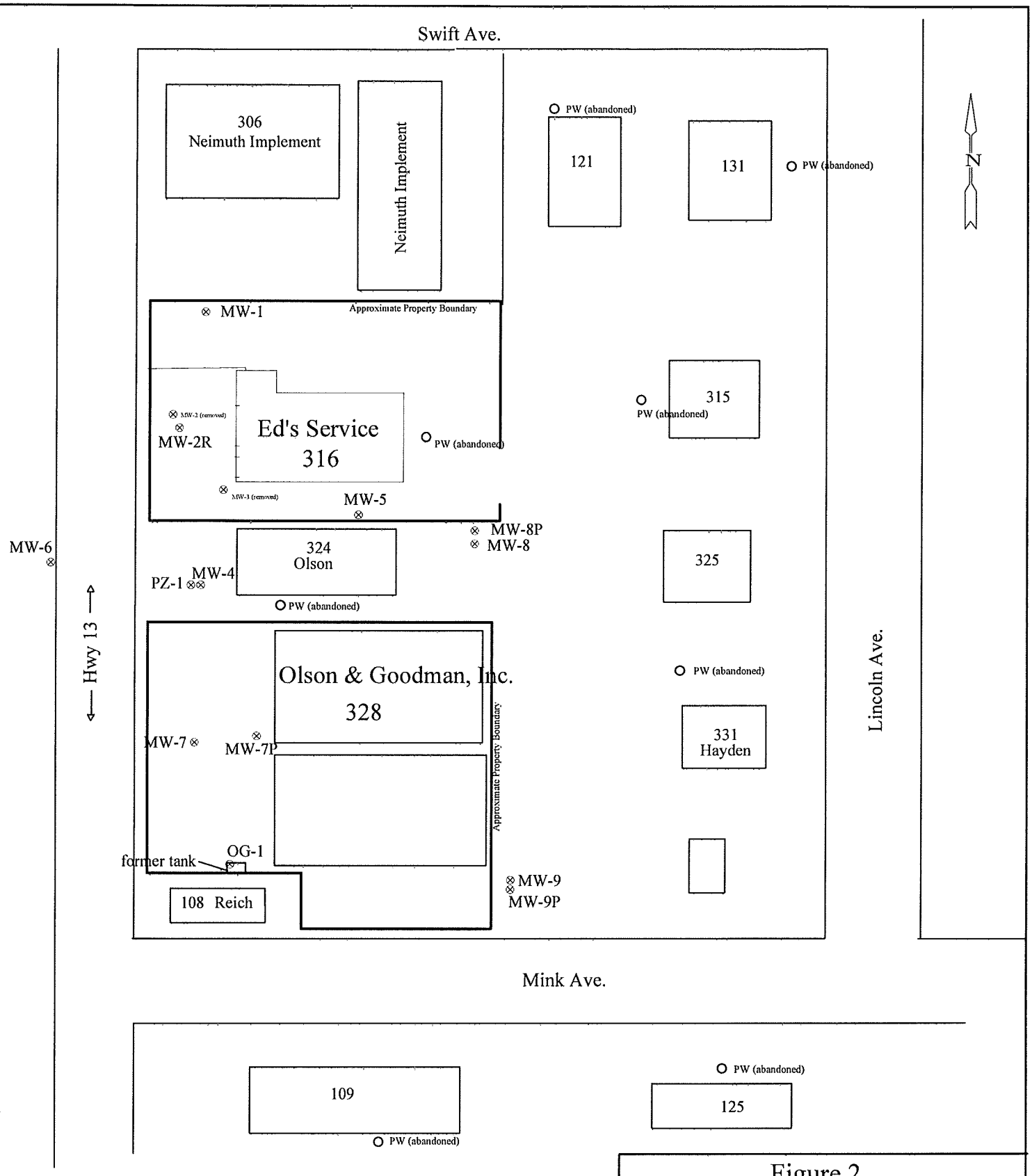
NAD_1983_HARN_Wisconsin_TM

1:2,933

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made aregarding accuracy, applicability for a particular use, completemenss, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.


Ed's Service
181001210000
181001220000
181001230000
181001240000
Olson Goodman
Former Gas tank
181001250000
181001260000
181001980000
181001970000
108 Mink
181001990000
181000830020
W MINK AVE
E MINK AVE
181002070000
181002060000
181002050000
181002040000
181002030000
181002020000
181002010000
181002000000
S LINCOLN ST
N
0 20 40 60ft
DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.



LEGEND

⊗ MW-1 Monitoring Well

○ PW Private Water Well

0 100 (ft)

approximate scale (ft)

Figure 2
Vicinity Map
Ed's Service/Olson Goodman
Stetsonville, WI

PROJECT NO.	PREPARED BY
05F684/807	KAS
DATE	REVIEWED BY
9/5/16	KAS

Meridian Environmental Consulting, LLC

Table 1: Ground Water Analytical Data

Ed's Service
Stetsonville, WI
Meridian No. 05F684

Well	Units	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene	EDB	1,2-DCA
NR140 ES	ug/l			480	5	700			2000	60	100	800	0.05	5
NR140 PAL	ug/l			*96*	*0.5*	*140*			*400*	*12*	*10*	*160*	*0.005*	*0.5*
MW-1														
8/7/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.8	<.3	NA	NA
10/10/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	1.6	<.8	<.3	NA	NA
12/5/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.8	<.3	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	<.2	<.1	<.4	<.2	<.4	2.19	<1	<.4	<.2	<.2
3/3/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	3.65	<.11	<.4	<.3	<.3
6/17/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	5.07	0.12	<.4	<.3	<.3
9/29/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	3.98	<.11	<.4	<.3	0.33
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	7.5	<.116	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	0.2	<.2	<.4	<.2	<.4	2.32	<.116	<.4	<.3	0.38
7/22/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	8.24	<1	<.4	<.3	<.3
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	2.2	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	3.7	NA	<.39	NA	NA
MW-2														
8/7/2006	ug/l	1940	553	2493	6370	2870	6450	2740	9190	<30	821	10300	NA	NA
10/10/2006	ug/l	1850	<155	1850	31600	2910	7440	3330	10770	<150	<400	28800	NA	NA
12/5/2006	ug/l	2730	803	3533	40200	4630	10500	4620	15120	<60	540	36800	NA	NA
4/2/2007	ug/l	3800	2870	6670	34000	7710	9160	4200	13360	<200	1590	33400	751	1060
MW-2R installed 2/20/08														
3/3/2008	ug/l	36.5	95.1	*131.6*	467	104	131	29.6	160.6	<10	2.37	25.9	6.43	12.5
6/17/2008	ug/l	<4	<4	<4	74	12	<8	9.06	9.06	<10	0.11	<8	<6	<6
9/29/2008	ug/l	6.8	9.24	16.04	556	93	27.3	<2	27.3	<5	2.2	9.38	<3	15.1
12/9/2008	ug/l	0.86	1.98	2.84	19.4	8.42	3.38	<.2	3.38	<.5	0.238	0.53	<.3	*1.05*
4/27/2009	ug/l	0.5	<.2	0.5	53.2	7.85	3.94	0.26	4.2	<.5	<1	0.6	<.3	3.2
7/22/2009	ug/l	<.2	<.2	<.2	*0.94*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
3/24/2010	ug/l	0.93	1.61	2.54	428	13.2	5.71	1.77	7.48	<.5	<1	2.13	1.55	46.6
6/21/2010	ug/l	<2	<2	<20	519	13.2	6.56	2.47	9.03	<5	<10	<4	<3	38.4
9/20/2010	ug/l	0.22	0.32	0.54	19.1	4.13	0.59	<.2	0.59	<.5	<1	<.4	<.3	*3.29*
12/7/2010	ug/l	not sampled - inaccessible												
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	*0.85*
5/10/2012	ug/l	0.73	<.2	0.73	77	3.8	1.87	1.15	3.02	<.5	NA	0.63	NA	100
6/20/2014	ug/l	<.5	<.5	<.5	28	<.5			<1.5	<.17	NA	<.5	NA	2.2
9/23/2014	ug/l	7.1	<.5	7.1	45.5	2.8			<1.5	0.7	NA	<.5	NA	8.8
3/30/2016	ug/l	<.84	<.83	<.84	174	17.5			3.8	1.5	<.85	3.1	NA	NA
6/14/2016	ug/l	1.8	<.42	1.8	96.7	0.69			2.2	1	0.69	<.39	NA	NA
MW-3														
8/7/2006	ug/l	89.5	93.5	*183*	3790	*527*	527	24	*551*	<6	124	138	NA	NA
10/10/2006	ug/l	<8	<6.2	<8	1720	94.3	57.4	<6	57.4	<6	<16	<6	NA	NA
12/5/2006	ug/l	218	<62	*218*	11500	1010	690	<60	*690*	<60	<160	*254*	NA	NA
4/2/2007	ug/l	248	514	762	9340	1290	1020	137	*1157*	<100	<500	1230	130	<100
destroyed during excavation														
MW-4 (installed Dec. 1, 2006)														
12/5/2006	ug/l	3.16	<.31	3.16	165	<.5	1.82	1.21	3.03	<.3	3.88	1.93	NA	NA
4/2/2007	ug/l	2.54	<2	2.54	334	<1	<4	<2	<4	<2	<10	<4	<2	13.1
3/3/2008	ug/l	<4	5.04	5.04	721	<4	<8	<4	<8	<10	4.35	<8	<6	25
6/17/2008	ug/l	<4	<4	<4	122	<4	<8	<4	<8	<10	0.04	<8	<6	<6
9/29/2008	ug/l	<.2	<.2	<.2	20.3	<.2	<.4	<.2	<.4	<.5	0.15	<.4	<.3	*4.22*
12/9/2008	ug/l	2.61	2.53	5.14	*2.64*	2.28	5.16	3.18	8.34	<.5	<.116	5.89	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	563	<.2	<.4	0.22	0.22	<.5	1.65	1.41	<.3	34.7
7/22/2009	ug/l	<.2	<.2	<.2	10.9	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*2.18*
3/24/2010	ug/l	<.2	0.91	0.91	1490	0.21	1.13	0.56	1.69	<.5	*13.2*	5.83	*0.67*	99.7
6/21/2010	ug/l	<.2	<.2	<.2	61.6	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*4.51*
9/20/2010	ug/l	<2	<2	<2	289	<2	<4	<2	<4	<5	<10	<4	<3	21.3
12/7/2010	ug/l	<2	<2	<2	192	<2	<4	<2	<4	<5	<10	<4	<3	10.5
11/8/2011	ug/l	<20	<20	<20	1320	<20	<40	<20	<40	<50	NA	<40	NA	97
5/10/2012	ug/l	<20	<20	<20	3010	<20	<40	<20	<40	<50	NA	<40	NA	202
6/20/2014	ug/l	<.5	<.5	<.5	3.7	0.5			<1.5	<.17	NA	<.5	NA	1.1
9/23/2014	ug/l	<5	<5	<5	1260	<5			<15	<1.7	NA	<5	NA	103
3/30/2016	ug/l	<.42	<.42	<.42	181	0.6			<1.2	2.5	1.5	<.39	NA	NA
6/14/2016	ug/l	<.42	<.42	<.42	133	<.39			<1.2	2.4	0.62	<.39	NA	NA
MW-5 (installed Dec. 1, 2006)														
12/5/2006	ug/l	4.27	0.91	5.18	49.9	<.5	3.32	2.1	5.42	<.3	3.6	0.876	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	*0.82*	0.24	<.4	0.21	0.21	<.2	<1	<.4	<.2	<.2
3/3/2008	ug/l	<.2	1.25	1.25	70.9	<.2	<.5	<.2	<.5	<.5	<.11	<.4	<.3	*3.99*
6/17/2008	ug/l	<1	<1	<1	50.5	<1	<2	<1	<2	<2.5	0.4	<2	<1.5	<1.5
9/29/2008	ug/l	<.2	<.2	<.2	*1.34*	<.2	<.4	<.2	<.4	<.5	<.11	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	*1.23*	<.2	<.4	<.2	<.4	<.5	<.116	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	12.2	<.2	<.4	<.2	<.4	<.5	<1.	<.4	<.3	*0.59*
7/22/2009	ug/l	<.2	<.2	<.2	83.1	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
3/24/2010	ug/l	<.2	<.2	<.2	0.26	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	0.32
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	*1.53*	0.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*2.88*
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*0.91*
11/8/2011	ug/l	<.2	<.2	<.2	*0.63*	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
5/10/2012	ug/l	<1	<1	<1	*1.61*	<1	<2	<1	<1	<2.5	NA	<2	NA	<1.5
6/20/2014	ug/l	<.5	<.5	<.5	*0.6*	<.5			<1.5	0.32	NA	<.5	NA	3.5
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	0.35	NA	<.5	NA	4.5
6/14/2016	ug/l	<.42	<.42	<.42	0.42	<.39			<1.2	5.4	NA	<.39	NA	NA
MW-6 (installed Feb. 20, 2008)														
3/3/2008	ug/l	1.21	1.05	2.26	<.2	0.22	0.4	<.2	0.4	<.5	0.205	<.4	<.3	<.3
6/17/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.024	<.4	<.3	<.3
9/29/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.117	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.116	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1.	<.4	<.3	<.3
7/22/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/23/2014	ug/l	<.5	<.5	<.5	*0.93*	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	3.3	<.39			<1.2	<.48	NA	<.39	NA	NA

Well	Units	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene	EDB	1,2-DCA
NR140 ES	ug/l			480	5	700			2000	60	100	800	0.05	5
NR140 PAL	ug/l			*96*	*0.5*	*140*			*400*	*12*	*10*	*160*	*0.005*	*0.5*
MW-7 (installed Feb. 20, 2008)														
3/3/2008	ug/l	3.01	2.31	5.32	<.2	0.24	0.79	0.46	1.25	<.5	0.275	0.47	<.3	<.3
6/17/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	0.025	<.4	<.3	<.3
9/29/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.117	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.117	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
7/22/2009	ug/l	<.2	<.2	<.2	0.22	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	0.23	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	0.44	<.39	NA	NA
MW-7P (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	*3.29*	<.2	<.4	<.2	<.4	<.5	<1	0.51	<.3	*1.22*
6/21/2010	ug/l	<.2	<.2	<.2	*2.23*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.35*
9/20/2010	ug/l	<.2	<.2	<.2	*1.38*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.07*
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*1.15*
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
5/10/2012	ug/l	<.2	<.2	<.2	6.13	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	*1.44*
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	1.1	<.5			<1.5	<.17	NA	<.5	NA	*1.5*
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-8 (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-8P (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-9 (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
5/10/2012	ug/l	<.2	<.2	<.2	*0.87*	<.2	<.4	<.2	<.4	<.5	NA	<.4	NA	<.3
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	<.17	NA	<.5	NA	<.17
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	NA	<.39	NA	NA
MW-9P (installed January 21, 2010)														
3/24/2010	ug/l	<.2	<.2	<.2	*0.54*	<.2	<.4	<.2	<.4	**88.8**	<1	<.4	<.3	*1.63*
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**142**	<1	<.4	<.3	*3.56*
9/20/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**99.7**	<1	<.4	<.3	*2.96*
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**111**	<1	<.4	<.3	*3.58*
11/8/2011	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	**69.5**	NA	<.4	NA	*2.92*
5/10/2012	ug/l	<.2	<.2	<.2	0.49	<.2	<.4	<.2	<.4	**171**	NA	<.4	NA	*1.73*
6/20/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	**141**	NA	<.5	NA	2.3
9/23/2014	ug/l	<.5	<.5	<.5	<.5	<.5			<1.5	**146**	NA	<.5	NA	3.3
3/30/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	**106**	<.42	<.39	NA	NA
6/14/2016	ug/l	<.42	<.42	<.42	<.4	<.39			<1.2	**83.3**	NA	<.39	NA	NA
PZ-1 (installed Feb. 20, 2008)														
3/3/2008	ug/l	<20	<20	<20	**2070**	<20	<40	<20	<40	<50	<.11	<40	<30	**103**
6/17/2008	ug/l	<20	<20	<20	**1310**	<20	<40	<20	<40	<50	0.34	<40	<30	**220**
9/29/2008	ug/l	<20	<20	<20	**1260**	<20	<40	<20	<40	<50	0.255	<40	<30	**172**
12/9/2008	ug/l	<.2	0.75	0.75	**107**	<.2	<.4	<.2	<.4	*27.3*	<.113	<.4	<.3	**124**
4/27/2009	ug/l	<1	<1	<1	**2210**	<1	<2	<1	<2	<2.5	<5	<2	<1.5	**175**
7/22/2009	ug/l	<.2	<.2	<.2	**3070**	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	**348**
3/24/2010	ug/l	<20	<20	<20	**2970**	<20	<40	<20	<40	<50	<100	<40	<30	**315**
6/21/2010	ug/l	11.2	<4	11.2	**3910**	<4	<8	<4	<8	<10	<20	<8	<6	**254**
9/20/2010	ug/l	<20	<20	<20	**2240**	<20	<40	<20	<40	<50	<100	<40	<30	**197**
12/7/2010	ug/l	<20	<20	<20	**1230**	<20	<40	<20	<40	<50	<100	<40	<30	**266**
11/8/2011	ug/l	<2	<2	<2	**205**	<2	<4	<2	<4	<5	NA	<4	NA	**21.2**
5/10/2012	ug/l	<20	<20	<20	**354**	<20	<40	<20	<40	<50	NA	<40	NA	**21.2**
6/20/2014	ug/l	<.5	<.5	<.5	*2.1*	<.5			<1.5	5.1	NA	<.5	NA	**74.9**
9/23/2014	ug/l	<.5	<.5	<.5	**14.8**	<.5			<1.5	6.4	NA	<.5	NA	**85.5**
3/30/2016	ug/l	<.42	<.42	<.42	**6.1**	0.43			<1.2	5.8	<.42	<.39	NA	NA
6/14/2016	ug/l	<.42	<.42	<.42	**22.5**	<.39			<1.2	7.1	<.42	<.39	NA	NA

Well	Units	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-xylene	0-xylene	Total Xylenes	MTBE	Naphthalene	Toluene	EDB	1,2-DCA
NR140 ES	ug/l			480	5	700			2000	60	100	800	0.05	5
NR140 PAL	ug/l			*96*	*0.5*	*140*			*400*	*12*	*10*	*160*	*0.005*	*0.5*
Private Wells														
Olson														
10/10/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.8	<.3	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	0.21	<.1	<.4	<.2	<.4	<.2	<1	0.68	<.2	<.2
6/17/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	0.27	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.11	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	<.2	<.2	-	-	<1	<.5	<1	<.4	NM	<.3
7/22/2009	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
6/21/2010	Not Sampled - inaccessible													
12/7/2010	ug/l	<.2	<.2	<.2	*0.82*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
		Abandoned 2011 (now on municipal water system)												
Rindts Shop (Ed's Service)														
12/5/2006	ug/l	<.4	<.31	<.4	<.31	<.5	<.62	<.3	<.62	<.3	<.8	<.3	NA	NA
4/2/2007	ug/l	<.2	<.2	<.2	<.2	<.1	<.4	<.2	<.4	<.2	<1	<.4	<.2	<.2
6/17/2008	ug/l	<.2	<.2	<.2	0.39	<.2	<.4	<.2	<.4	<.5	<.024	<.4	<.3	<.3
12/9/2008	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<.11	<.4	<.3	<.3
4/27/2009	ug/l	<.2	<.2	<.2	0.24	<.2	<.4	<.2	<.4	<.5	<.11	0.54	<.3	<.3
7/22/2009	ug/l	<.2	<.2	<.2	0.22	<.2	<.4	<.2	<.4	<.5	<1	0.81	<.3	0.32
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	*0.57*	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	*0.5*
		Abandoned 2011 (now on municipal water system)												
315 Lincoln														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
		Abandoned 2011 (now on municipal water system)												
331 Lincoln														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	<.5	<1	<.4	<.3	<.3
		Abandoned 2011 (now on municipal water system)												
109 Mink														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	0.76	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	1.25	<1	<.4	<.3	<.3
		Abandoned 2011 (now on municipal water system)												
125 Mink														
6/21/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	1.01	<1	<.4	<.3	<.3
12/7/2010	ug/l	<.2	<.2	<.2	<.2	<.2	<.4	<.2	<.4	2.3	<1	<.4	<.3	<.3
		Abandoned 2011 (now on municipal water system)												

10 concentration exceeds NR140 Enforcement Standard (ES)
10 concentration exceeds NR140 Preventative Action Limit (PAL)
NA - parameter not analyzed

APPENDIX B

SOIL BORING LOGS
AND
MONITORING WELL CONSTRUCTION FORMS

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Olson + Goodman	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: OG-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 10 / 16 / 2015 (m m d d y y y y)
Type of Well: Well Code ____ / ____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darin Geiss
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation ____ 0 ____ ft. MSL

B. Well casing, top elevation ____ 0 ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☑ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☑ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☑ 41 / Other ☐ ____

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

16. Drilling additives used? ☐ Yes ☐ No
Describe ____

17. Source of water (attach analysis, if required):
____

E. Bentonite seal, top ____ ft. MSL or ____ 3 ____ ft.

F. Fine sand, top ____ ft. MSL or ____ 4 ____ ft.

G. Filter pack, top ____ ft. MSL or ____ 4 ____ ft.

H. Screen joint, top ____ ft. MSL or ____ 5 ____ ft.

I. Well bottom ____ ft. MSL or ____ 15 ____ ft.

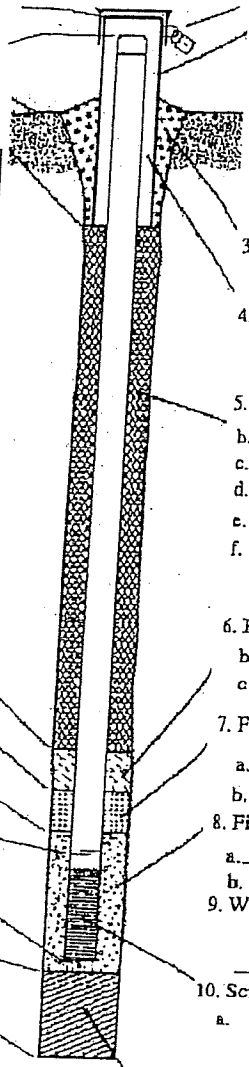
J. Filter pack, bottom ____ ft. MSL or ____ 16 ____ ft.

K. Borehole, bottom ____ ft. MSL or ____ 16 ____ ft.

L. Borehole, diameter ____ 8 ____ in.

M. O.D. well casing ____ 2 ____ in.

N. I.D. well casing ____ 2 ____ in.



1. Cap and lock? ☑ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 in.
b. Length: 1 ft.
c. Material: Steel ☑ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30 / Concrete ☑ 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☑ 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☑ 33
b. ____ Lbs/gal mud weight ... Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ____ % Bentonite ..... Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☑ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☑ 3/8 in. ☐ 1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☑ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☑ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer ____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☑ 14 / Other ☐ ____

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

Signature: ____ Firm: Meridian Environmental Consulting, LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: OG-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015	Date Drilling Completed: 10/16/2015	Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill										
			5											
			10											
			15	EOB = 16 ft										
			20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Olson + Goodman	Taylor	OG-1
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**

1. Can this well be purged dry? ☒ Yes ☑ No (bails down)

2. Well development method

surged with bailer and bailed	☑	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well ~30 min.

4. Depth of well (from top of well casisng) 15 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ~2 gal.

7. Volume of water removed from well 10 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.42 ft.	12.72 ft.
Date	b. 11/5/2015 (m m / d d / y y y y)	11/5/2015
Time	c. ___:___ ☐ a.m. ☐ p.m.	___:___ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0 inches	0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe) cloudy

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Ken Last Name: Shimko
Firm: Meridian Environmental Consulting, LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Ken Last Name: Shimko
Facility/Firm: Meridian Env. Cs ltg, LLC
Street: 2711 N. Elm Rd
City/State/Zip: Fall Creek, WI 54742

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Kenneth Shimko
Firm: Meridian Env. Cs ltg, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Ed's Service	License/Permit/Monitoring Number	Boring Number: MW. 7
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mike Last Name: McCardle Firm: M+K	Date Drilling Started: 2/20/2008 (m m d d y y y y)	Date Drilling Completed: 2/20/2008 (m m d d y y y y)
		Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " Long ° ' "	Local Grid Location _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
Facility ID	County: Taylor	County Code: _____ Civil Town/City/ or Village: Stetsonville

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			5	earth drill (clay)										
			10											
			15											
			20	EOB = 20 ft.										

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

Signature: [signature] Firm: Meridian Environmental CS Hg.

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Ed's Service	Local Grid Location of Well: ____ ft. ☐N ☐S, ____ ft. ☐E ☐W	Well Name: MW-7
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐; Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 02/20/2008 (m m d d y y y y)
Type of Well; Well Code ____/____	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Mike McCardle; M+K
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 0 ft. MSL

B. Well casing, top elevation 0 ft. MSL

C. Land surface elevation 0 ft. MSL

D. Surface seal, bottom ____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

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

16. Drilling additives used? ☐ Yes ☐ No

Describe ____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top ____ ft. MSL or 1 ft.

F. Fine sand, top ____ ft. MSL or 3 ft.

G. Filter pack, top ____ ft. MSL or 4 ft.

H. Screen joint, top ____ ft. MSL or 5 ft.

I. Well bottom ____ ft. MSL or 20 ft.

J. Filter pack, bottom ____ ft. MSL or 20 ft.

K. Borehole, bottom ____ ft. MSL or 20 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2 in.

N. I.D. well casing 2 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 30; Concrete ☒ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30; Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer ____
c. Slot size: 0.01 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature: [signature] Firm: Meridian Environmental Cs Hg.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Ed's Service	Taylor	MW-7
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	__	_____	____

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well ~30 min.

4. Depth of well (from top of well casisng) 20.__ ft.

5. Inside diameter of well 2.__ in.

6. Volume of water in filter pack and well casing ~3.__ gal.

7. Volume of water removed from well 10.__ gal.

8. Volume of water added (if any) 0.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.75 ft.	12.81 ft.
Date	b. 2/20/2008 (m m d d y y y y)	2/20/2008 (m m d d y y y y)
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__.__ inches	__.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) _____	Clear ☐ 20 Turbid ☒ 25 (Describe) clearing

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids ____.__ mg/l ____.__ mg/l

15. COD ____.__ mg/l ____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Ken Last Name: Shimka
Firm: Meridian

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Ed Last Name: Riedt, Jr.
Facility/Firm: Ed's Service
Street: _____
City/State/Zip: Stetsonville, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Kenneth Shimka
Firm: Meridian Environmental Cslty.

NOTE: See instructions for more information including a list of county codes and well type codes.

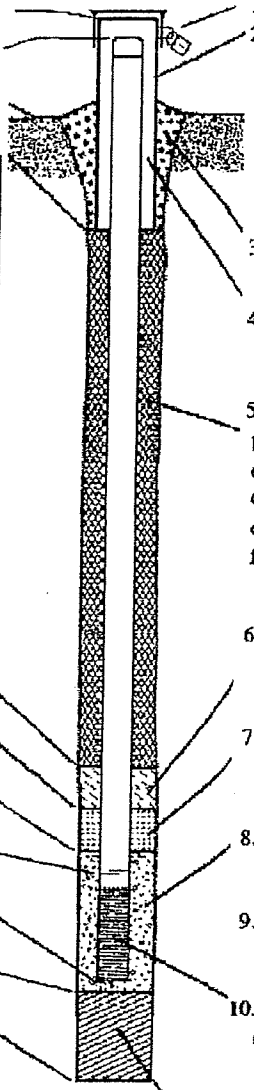
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Eds Service	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-7P
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/22/2010 (m m d d y y y y)
Type of Well: Well Code 12/PZ	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Landon Malzahn, Geiss Soil + Samples LL
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____



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

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

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

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 24 ft.
G. Filter pack, top _____ ft. MSL or 25 ft.
H. Screen joint, top _____ ft. MSL or 30 ft.
I. Well bottom _____ ft. MSL or 35 ft.
J. Filter pack, bottom _____ ft. MSL or 35 ft.
K. Borehole, bottom _____ ft. MSL or 35 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Boart
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☐ 14 / Other ☒ _____

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

Signature: Landon Malzahn Firm: Geiss Soil + Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Ed's Service	Taylor	MW-7P

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 35. ft.

5. Inside diameter of well 2. in.

6. Volume of water in filter pack and well casing 5. gal.

7. Volume of water removed from well 10. gal.

8. Volume of water added (if any) — gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.41 ft.	30.0 ft.
Date	b. 1/22/2010 (m m d d y y y y)	1/22/2010 (m m d d y y y y)
Time	c. ☐ a.m. ☐ p.m.	☐ a.m. ☐ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe)
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Ken Last Name: Shimko
Firm: Meridian Env. Cslty.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Ed Last Name: Rindt
Facility/Firm: Ed's Service
Street: 316 S. Hwy. 13
City/State/Zip: Stetsonville, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature:
Print Name: Kenneth Shimko
Firm: Meridian Environmental Consulting, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page _____ of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Ed's Service		MW-7P

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Langdon Last Name: Malzahn Firm: Geiss	01 / 21 / 2010 m m d d y y y y	01 / 27 / 2010 m m d d y y y y	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _		_____ Feet MSL	_____ Feet MSL	_____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐		Local Grid Location
State Plane _____ N, _____ E	Lat ° ' "	☐ N ☐ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	_____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Taylor		Stetsonville

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit.	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			10	earth drill			2" PVC							
			20											
			30											
			40	EOB = 35 ft.										

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

Signature _____ Firm Meridian Environmental Consulting, L

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

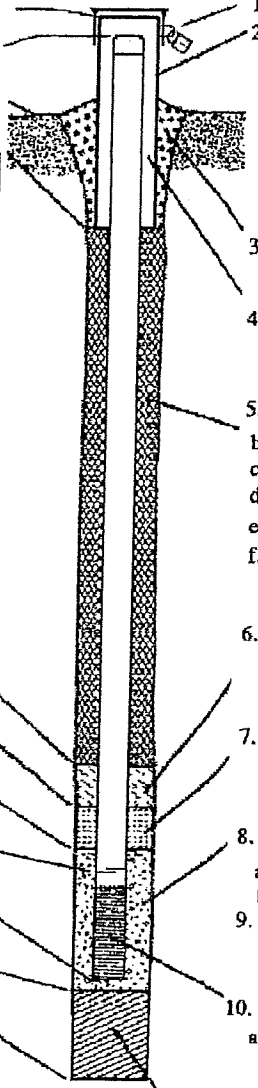
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Eds Service	Local Grid Location of Well ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-9
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 04/22/2010 (m m d d y y y y)
Type of Well: Well Code 11/MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Geiss Soil & Samples LLC; Landon Malzahn
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number



A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation ____ ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

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

16. Drilling additives used? ☐ Yes ☒ No

Describe ____

17. Source of water (attach analysis, if required): ____

E. Bentonite seal, top ____ ft. MSL or 0 ft.

F. Fine sand, top ____ ft. MSL or 4 ft.

G. Filter pack, top ____ ft. MSL or 5 ft.

H. Screen joint, top ____ ft. MSL or 5 ft.

I. Well bottom ____ ft. MSL or 20 ft.

J. Filter pack, bottom ____ ft. MSL or 21 ft.

K. Borehole, bottom ____ ft. MSL or 21 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☒ 30; Concrete ☐ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30; Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23; Flush threaded PVC schedule 80 ☐ 24; Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ ____
b. Manufacturer Boart
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☐ 14; Other ☒ ____

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

Signature: Landon Malzahn | Firm: Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Ed's Service	Taylor	MW-9

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	__	_____	___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well ~30 min.

4. Depth of well (from top of well casisng) 20.__ ft.

5. Inside diameter of well 2.__ in.

6. Volume of water in filter pack and well casing ~2.__ gal.

7. Volume of water removed from well 10.__ gal.

8. Volume of water added (if any) —.__ gal.

9. Source of water added —

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.62 ft.	10.6 ft.
Date	b. 1/22/2010 (m m d d y y y y)	1/22/2010 (m m d d y y y y)
Time	c. __:__ ☐ a.m. ☐ p.m.	__:__ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__.__ inches	__.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Ken Last Name: Shimko
Firm: Meridian Env. Cslty.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Ed Last Name: Rindt
Facility/Firm: Ed's Service
Street: 316 S. Hwy. 13
City/State/Zip: Stetsonville, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature:
Print Name: Kenneth Shimko
Firm: Meridian Environmental Consulting, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page _____ of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Eds Service		MW-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Langdon Last Name: Malzahn Firm: Geiss	01/21/2010 (m m / d d / y y y y)	01/22/2010 (m m / d d / y y y y)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	_____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Taylor		Stetsonville

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit.	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				earth drill			2" PVC							
			10											
			20	EOB = 21 Ft										
			30											
			40											

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

Signature _____ Firm Meridian Environmental Consulting, L

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

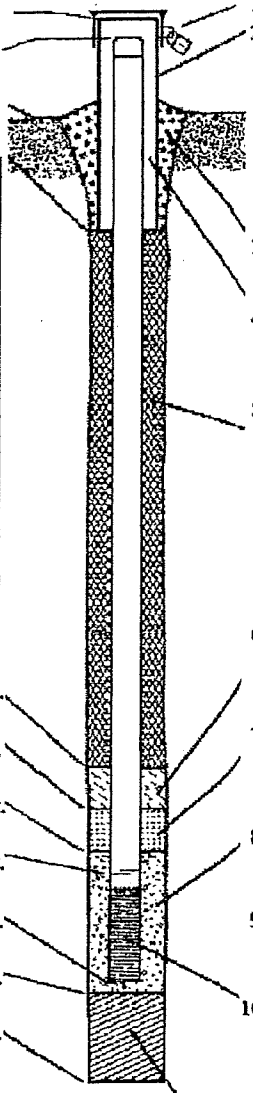
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Eds Service	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name: MW-9P
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E, S/C/N	Date Well Installed: 01/22/2010 (m m d d y y y y)
Type of Well: Well Code 12/PZ	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐ E ☐ W	Well Installed By: Name (first, last) and Firm: Landon Malzahn, Geiss Soil + Samples
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

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

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis, if required): _____

E. Bentonite seal, top _____ ft. MSL or 0 ft.

F. Fine sand, top _____ ft. MSL or 26 ft.

G. Filter pack, top _____ ft. MSL or 29 ft.

H. Screen joint, top _____ ft. MSL or 30 ft.

I. Well bottom _____ ft. MSL or 35 ft.

J. Filter pack, bottom _____ ft. MSL or 36 ft.

K. Borehole, bottom _____ ft. MSL or 36 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 2.00 in.

1. Cap and lock? ☐ Yes ☒ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Boart
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None ☐ 14 / Other ☒ _____

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

Signature: Landon Malzahn Firm: Geiss Soil + Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Ed's Service	Taylor	MW-9P

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	__	_____	___

1. Can this well be purged dry? ☑ Yes ☑ No

2. Well development method

surged with bailer and bailed	☑ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well ~30 min.

4. Depth of well (from top of well casisng) 35 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing ~4 gal.

7. Volume of water removed from well 10 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.41 ft.	26.8 ft.
Date	b. 1/22/2010	1/22/2010
Time	c. ___:___ ☐ a.m. ☐ p.m.	___:___ ☐ a.m. ☐ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Ken Last Name: Shimko
Firm: Meridian Env. Cslty.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Ed Last Name: Rindt
Facility/Firm: Ed's Service
Street: 316 S. Hwy. 13
City/State/Zip: Stetsonville, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Kenneth Shimko
Firm: Meridian Environmental Consulting, LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page _____ of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Ed's Service		MW-9P

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Langdon Last Name: Malzahn Firm: Geiss	01 / 21 / 2010 (m m / d d / y y y y)	01 / 22 / 2010 (m m / d d / y y y y)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	_____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
Lat ° ' " Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____

Facility ID	County	County Code	Civil Town/City/ or Village
	Taylor		Stetsonville

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit.	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				No recovery										
				brown lean clay w/ sand				wet						
			10	gray lean clay				wet						
				gray sand → tan sand										
			20	brown sand w/ clay lenses										
				coarse sand										
				gray clay w/ sand lens			2" PVC							
			30	↓										
				EOB = 36										
			40											

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

Signature _____ Firm Meridian Environmental Consulting, L

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	gray clay. odor. moist				70		M				
			5					40		M				
			10	wet				20		wet				
			15	sand lenses clay				10						
			20	rock fragments				2						
				EOB = 20 ft.										

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

Signature: _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-2	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	dark gray silt/sandy silt				100		m				
			5	brown silt/silty clay				160		m				
			10	Fat clay				30		wet				
				silty clay										
			15					120		wet				
				EOB = 16 ft.										
			20											

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

Signature: _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-3
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		
Facility ID	County: Taylor	County Code: _____
Civil Town/City/ or Village: Stetsonville		

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	dark gray silt.				12		m				
			5	lean clay				1		m				
			10	lean clay				0		wet				
				EOB = 12 ft.										
			15											
			20											

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

Signature: _____ Firm: Meridian Environmental Consulting, LLC

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-4
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No. _ _ _ _ _ _ — DNR Well ID No. — Well Name	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL — Borehole Diameter _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____ — Facility ID	County: Taylor	County Code _____ — Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
			0	gray wet clay w/ silt.				50		wet				
			5	gray lean clay				150		moist				
			10	brown lean clay w/ sand lenses				25		wet				
				EOB = 12 ft.										
			15											
			20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
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SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N. _____ E	Lat ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log / Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	dark gray silt.			100		moist				
			5	gray dense lean clay			170		Mo/St				
			10	brown clay. sand lenses			100		wet				
				EOB = 12 ft									
			15										
		20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-6	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m / d d / y y y y)	Date Drilling Completed: 10/16/2015	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____		
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	brown silty clay				0		v. moist				
			5	brown silty clay				0		moist				
			10	Clay w/ silt. (sand lens ~ 8 ft depth)				0		wet				
				EOB = 12 ft										
			15											
			20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-7
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSE	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E; _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " — Long ° ' "	Local Grid Location: _____ ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	brown silty clay				0		wet				
			5	gray lean clay. odor				25		moist				
			10	gray lean clay				50		moist				
				EOB = 12 ft										
			15											
			20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-8
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' "	Local Grid Location: _____ ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
_____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Long ° ' "	
Facility ID	County: Taylor	County Code	Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				brown Silt.				0		moist				
			5	brown lean clay				0		moist				
			10	8 ft = EOB										
			15											
			20											

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

Signature _____ Firm: Meridian Environmental Consulting, LLC

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: GP-9
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black — Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No. _ _ _ _ _ _ _	DNR Well ID No. _ _ _ _	Well Name: — Final Static Water Level: _____ Feet MSL — Surface Elevation: _____ Feet MSL — Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
Facility ID	County: Taylor	County Code: — Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				brown sandy clay				0		wet				
			5	brown lean clay				0		moist				
			10	brown lean clay w/ sand lens				0		wet				
				EOB = 12 ft.										
			15											
			20											

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

Signature: [signature] Firm: Meridian Environmental Consulting, LLC

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 used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Page 1 of 1

Facility/Project Name: Olson + Goodman	License/Permit/Monitoring Number	Boring Number: Vapor Intrusion VI-1
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Joe Last Name: Black Firm: PSI	Date Drilling Started: 10/16/2015 (m m d d y y y y)	Date Drilling Completed: 10/16/2015 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No. _ _ _ _ _ _ _ — DNR Well ID No. _ _ _ _ — Well Name	Final Static Water Level _____ Feet MSL	Surface Elevation _____ Feet MSL — Borehole Diameter _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N. _____ E; _____ 1/4 of _____ 1/4 of Section _____, T _____ N, R _____	Lat ° ' " Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
Facility ID	County: Taylor — County Code	Civil Town/City/ or Village: Stetsonville

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	earth drill										
				no sample (air sample)										
			5	EOB = 3 ft.										
			10											
			15											
			20											

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

Signature: [signature] Firm: Meridian Environmental Consulting, LLC

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GP-1

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor

WI Unique Well # of Removed Well: _ _ _ _ _ _

Hicap #:

Latitude / Longitude (Degrees and Minutes) _ _ ° _ _ ' _ _ . _ _ _ _ 'N / _ _ ° _ _ ' _ _ . _ _ _ _ 'W

Method Code (see instructions): _ _ _ _ _ _

¼ / ¼ | ¼ | Section | Township N | Range ☐ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town

Well ZIP Code

Subdivision Name

Lot #

Reason For Removal From Service

WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Olson + Goodman

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15

If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 20

Casing Diameter (in.)

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?

Depth to Water (feet): ~5 ft.

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	20	~½ bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Steinke/Mendu | License #: #61 | Date of Filling & Sealing (mm/dd/yyyy): 10/16/15

Street or Route: 2711 N. Flco Rd | Telephone Number: (715) 932-8608

City: Fall Creek | State: WI | ZIP Code: 54742

Signature of Person Doing Work | Date Signed: 11-18-15

DNR Use Only

Date Received | Noted By

Comments

GP-2

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor
WI Unique Well # of Removed Well: _ _ _ _ _ _
Hicap #:
Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
_ _ ° _ _ . _ _ _ 'N
_ _ ° _ _ . _ _ _ 'W
¼ / ¼ | ¼ | Section | Township N | Range ☐ E ☐ W
or Gov't Lot #
Well Street Address
Well City, Village or Town | Well ZIP Code
Subdivision Name | Lot #
Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: Olson & Goodman
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15
If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 16' | Casing Diameter (in.)
Lower Drillhole Diameter (in.) | Casing Depth (ft.)
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)? | Depth to Water (feet)

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	16	1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimko/Mesdan | License #: 061 | Date of Filling & Sealing (mm/dd/yyyy): 10/16/15
Street or Route: 2711 N. Elco Rd | Telephone Number: (715) 932-6608
City: Fall Creek | State: WI | ZIP Code: 54742 | Signature of Person Doing Work | Date Signed: 11-18-15

DNR Use Only
Date Received | Noted By
Comments

GP-3

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor
WI Unique Well # of Removed Well:
Hicap #:
Latitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions):
¼ / ¼ | ¼ | Section | Township N | Range ☐ E ☐ W
or Gov't Lot #
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service:
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Olson & Goodman
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner: Stetsonville | State: WI | ZIP Code:

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 10-16-15
If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 12
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks, Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	12	~1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimko/Mesker
License #: 061
Date of Filling & Sealing (mm/dd/yyyy): 10/16/15
Street or Route: 2711 N. Elco Dr
Telephone Number: (715) 932-6608
City: Fall Creek | State: WI | ZIP Code: 54742
Signature of Person Doing Work:
Date Signed: 11-18-15

DNR Use Only

Date Received:
Noted By:
Comments:

GP-4

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) 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 ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor

WI Unique Well # of Removed Well: _ _ _ _ _ _ _

Hicap #:

Latitude / Longitude (Degrees and Minutes) _ _ ° _ _ . _ _ _ _ 'N _ _ ° _ _ . _ _ _ _ 'W

Method Code (see instructions): _ _ _ _ _ _ _ _

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

Well Street Address:

Well City, Village or Town:

Well ZIP Code:

Subdivision Name:

Lot #:

Reason For Removal From Service:

WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Olson & Goodman

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner:

City of Present Owner: Stetsonville

State: WI

ZIP Code:

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15

If a Well Construction Report is available, please attach.

Construction Type:

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

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 12

Casing Diameter (in.):

Lower Drillhole Diameter (in.):

Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?

Depth to Water (feet)

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

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

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials

☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

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

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	12	1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimka/Mesdan

License #: 861

Date of Filling & Sealing (mm/dd/yyyy): 10/16/15

Street or Route: 2711 N. Flea Rd

Telephone Number: (715) 932-6608

City: Fall Creek

State: WI

ZIP Code: 54742

Signature of Person Doing Work:

Date Signed: 11-18-15

DNR Use Only

Date Received: Noted By:

Comments:

GP-5

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Taylor	_ _ _ _ _ _ _	

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

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

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: Olson + Goodman

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15

If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12'	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	12	~1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Kenneth Shimko/Mendota	#61	10/16/15

Street or Route	Telephone Number
2711 N. Flco Rd	(715) 932-6608

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fall Creek	WI	54742		11-18-15

DNR Use Only

Date Received	Noted By
Comments	

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Taylor		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

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

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: Olson & Goodman

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner	State	ZIP Code
Stetsonville	WI	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15

If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	12	1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Kenneth Shimko/Mendota	061	10/16/15

Street or Route: 2711 N. Flco Rd — Telephone Number: (715) 932-6608

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fall Creek	WI	54742		11-18-15

DNR Use Only
Date Received | Noted By
Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor
WI Unique Well # of Removed Well: — — — — —
Hicap #:
Latitude / Longitude (Degrees and Minutes) — — ° — — . — — — ' N / — — ° — — . — — — ' W
Method Code (see instructions): — — — — — —
¼ / ¼ or Gov't Lot #:
¼:
Section:
Township: N
Range: ☐ E ☐ W
Well Street Address:
Well City, Village or Town:
Well ZIP Code:
Subdivision Name:
Lot #:
Reason For Removal From Service:
WI Unique Well # of Replacement Well: — — — — —

2. Facility / Owner Information

Facility Name: Olson + Goodman
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:
City of Present Owner: Stetsonville
State: WI
ZIP Code:

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 10-16-15
If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 12'
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	12	1 bg	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimko/Meadow
License #: #61
Date of Filling & Sealing (mm/dd/yyyy): 10/16/15
Street or Route: 2711 N. Flieth Dr
Telephone Number: (715) 932-8608
City: Fall Creek
State: WI
ZIP Code: 54742
Signature of Person Doing Work:
Date Signed: 11-18-15

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor
WI Unique Well # of Removed Well: _ _ _ _ _ _ _
Hicap #:
Lattitude / Longitude (Degrees and Minutes): _ _ ° _ _ ' _ _ . _ _ _ _ 'N ; _ _ ° _ _ ' _ _ . _ _ _ _ 'W
Method Code (see instructions): _ _ _ _ _ _ _ _ _ _
¼ / ¼ | ¼ | Section | Township N | Range ☐ E ☐ W
or Gov't Lot #
Well Street Address
Well City, Village or Town
Well ZIP Code
Subdivision Name
Lot #
Reason For Removal From Service
WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Olson + Goodman
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 10-16-15
If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 8
Casing Diameter (in.)
Lower Drillhole Diameter (in.)
Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	8	2 1/2 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimko/Mesdan
License #: 861
Date of Filling & Sealing (mm/dd/yyyy): 10/16/15
Street or Route: 2711 N. Elco Rd
Telephone Number: (715) 932-8608
City: Fall Creek | State: WI | ZIP Code: 54742
Signature of Person Doing Work:
Date Signed: 11-18-15

DNR Use Only
Date Received | Noted By
Comments

GP-9

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Taylor	_ _ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
_ _ ° _ _ ' _ _ . _ _ _ _ 'N
_ _ ° _ _ ' _ _ . _ _ _ _ 'W

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

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Olson + Goodman

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10-16-15

If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	12	~1 1/2 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Kenneth Shimko/Meadow	061	10/16/15

Street or Route: 2711 N. Fillo Rd | Telephone Number: (715) 932-6608

City: Fall Creek | State: WI | ZIP Code: 54742

Signature of Person Doing Work | Date Signed: 11-18-15

DNR Use Only
Date Received | Noted By
Comments:

U. I.

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County: Taylor
WI Unique Well # of Removed Well: _ _ _ _ _ _ _
Hicap #:
Latitude / Longitude (Degrees and Minutes): _ _ ° _ _ ' _ _ . _ _ _ " N / _ _ ° _ _ ' _ _ . _ _ _ " W
Method Code (see instructions):
¼ / ¼ | ¼ | Section | Township N | Range ☐ E ☐ W
or Gov't Lot #
Well Street Address
Well City, Village or Town
Well ZIP Code
Subdivision Name
Lot #
Reason For Removal From Service
WI Unique Well # of Replacement Well: _ _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Olson & Goodman
Facility ID (FID or PWS)
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
City of Present Owner: Stetsonville | State: WI | ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 10-16-15
If a Well Construction Report is available, please attach.

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

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 3'
Casing Diameter (in.):
Lower Drillhole Diameter (in.):
Casing Depth (ft.):

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

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

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

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	3	~1/4 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Kenneth Shimko/Mendu
License #: #61
Date of Filling & Sealing (mm/dd/yyyy): 10/16/15
Street or Route: 2711 N. Flieth Rd
Telephone Number: (715) 932-6608
City: Fall Creek | State: WI | ZIP Code: 54742
Signature of Person Doing Work:
Date Signed: 11-18-15

DNR Use Only
Date Received | Noted By
Comments

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Pace Analytical®
www.pacelabs.com

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

October 30, 2015

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSON GOODMAN
Pace Project No.: 40123161

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: OLSON GOODMAN
Pace Project No.: 40123161

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40123161001	1 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161002	1 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161003	1 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161004	1 15-16	Solid	10/16/15 00:00	10/20/15 07:30
40123161005	1 18-19	Solid	10/16/15 00:00	10/20/15 07:30
40123161006	2 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161007	2 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161008	2 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161009	2 15-16	Solid	10/16/15 00:00	10/20/15 07:30
40123161010	3 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161011	3 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161012	3 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161013	4 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161014	4 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161015	4 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161016	5 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161017	5 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161018	5 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161019	6 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161020	6 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161021	6 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161022	7 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161023	7 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161024	7 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161025	8 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161026	8 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161027	9 3-4	Solid	10/16/15 00:00	10/20/15 07:30
40123161028	9 7-8	Solid	10/16/15 00:00	10/20/15 07:30
40123161029	9 11-12	Solid	10/16/15 00:00	10/20/15 07:30
40123161030	TRIP BLANK	Water	10/16/15 00:00	10/20/15 07:30

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SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40123161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123161001	1 3-4	WI MOD GRO	LCF	13	PASI-G
		EPA 8260	HNW	4	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161002	1 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161003	1 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161004	1 15-16	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161005	1 18-19	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161006	2 3-4	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161007	2 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161008	2 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161009	2 15-16	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161010	3 3-4	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161011	3 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161012	3 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161013	4 3-4	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161014	4 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161015	4 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161016	5 3-4	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161017	5 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161018	5 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40123161

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40123161019	6 3-4	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161020	6 7-8	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161021	6 11-12	WI MOD GRO	PMS	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161022	7 3-4	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161023	7 7-8	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161024	7 11-12	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161025	8 3-4	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161026	8 7-8	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161027	9 3-4	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161028	9 7-8	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161029	9 11-12	WI MOD GRO	LCF	12	PASI-G
		ASTM D2974-87	MAV	1	PASI-G
40123161030	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40123161

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: October 30, 2015

General Information:
30 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

P4: Sample field preservation does not meet EPA or method recommendations for this analysis.
- 7 3-4 (Lab ID: 40123161022)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/15224

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10326490008

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MSD (Lab ID: 1244383)
  - Ethylbenzene

Additional Comments:

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PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40123161

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: October 30, 2015

Analyte Comments:

QC Batch: GCV/15225

1q: Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory.
- 7 3-4 (Lab ID: 40123161022)
  - a,a,a-Trifluorotoluene (S)

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- 7 11-12 (Lab ID: 40123161024)
  - a,a,a-Trifluorotoluene (S)
- 7 7-8 (Lab ID: 40123161023)
  - a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40123161

Method: EPA 8260
Description: 8260 MSV TCLP
Client: Meridian Environmental Consulting, LLC
Date: October 30, 2015

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 1 3-4 Lab ID: **40123161001** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<1000**	ug/kg	2000	1000	40	10/22/15 07:00	10/22/15 15:23	71-43-2	W
Ethylbenzene	**53100**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	100-41-4	
Gasoline Range Organics	**2920**	mg/kg	257	128	40	10/22/15 07:00	10/22/15 15:23		
Methyl-tert-butyl ether	**<1000**	ug/kg	2000	1000	40	10/22/15 07:00	10/22/15 15:23	1634-04-4	W
Naphthalene	**37100**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	91-20-3	
Toluene	**12600**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	108-88-3	
Total Trimethylbenzenes	**308000**	ug/kg	5140	2570	40	10/22/15 07:00	10/22/15 15:23		
1,2,4-Trimethylbenzene	**227000**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	95-63-6	
1,3,5-Trimethylbenzene	**80500**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	108-67-8	
Xylene (Total)	**223000**	ug/kg	7710	3850	40	10/22/15 07:00	10/22/15 15:23	1330-20-7	
m&p-Xylene	**144000**	ug/kg	5140	2570	40	10/22/15 07:00	10/22/15 15:23	179601-23-1	
o-Xylene	**79000**	ug/kg	2570	1280	40	10/22/15 07:00	10/22/15 15:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		40	10/22/15 07:00	10/22/15 15:23	98-08-8	
8260 MSV TCLP	Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 10/27/15 10:33								
Benzene	**11.9**	ug/L	10.0	5.0	10		10/29/15 19:30	71-43-2	
Surrogates									
Toluene-d8 (S)	101	%	70-130		10		10/29/15 19:30	2037-26-5	
4-Bromofluorobenzene (S)	98	%	70-130		10		10/29/15 19:30	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		10		10/29/15 19:30	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**22.2**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 1 7-8 Lab ID: **40123161002** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**353**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	71-43-2	
Ethylbenzene	**5150**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	100-41-4	
Methyl-tert-butyl ether	**118J**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	1634-04-4	
Naphthalene	**2110**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	91-20-3	
Toluene	**546**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	108-88-3	
Total Trimethylbenzenes	**18600**	ug/kg	357	149	2.5	10/21/15 07:09	10/21/15 18:25		
1,2,4-Trimethylbenzene	**13000**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	95-63-6	
1,3,5-Trimethylbenzene	**5620**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	108-67-8	
Xylene (Total)	**14300**	ug/kg	536	223	2.5	10/21/15 07:09	10/21/15 18:25	1330-20-7	
m&p-Xylene	**12700**	ug/kg	357	149	2.5	10/21/15 07:09	10/21/15 18:25	179601-23-1	
o-Xylene	**1570**	ug/kg	179	74.4	2.5	10/21/15 07:09	10/21/15 18:25	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		2.5	10/21/15 07:09	10/21/15 18:25	98-08-8	

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 1 7-8 **Lab ID: 40123161002** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 1 11-12 **Lab ID: 40123161003** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**505**	ug/kg	68.2	28.4	1	10/21/15 07:09	10/21/15 10:16	71-43-2	
Ethylbenzene	**57.1J**	ug/kg	68.2	28.4	1	10/21/15 07:09	10/21/15 10:16	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:16	1634-04-4	W
Naphthalene	**90.0**	ug/kg	68.2	28.4	1	10/21/15 07:09	10/21/15 10:16	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:16	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 10:16		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:16	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:16	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 10:16	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 10:16	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:16	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	10/21/15 07:09	10/21/15 10:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.0**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 1 15-16 **Lab ID: 40123161004** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**1570**	ug/kg	71.6	29.8	1	10/21/15 07:09	10/21/15 10:42	71-43-2	
Ethylbenzene	**435**	ug/kg	71.6	29.8	1	10/21/15 07:09	10/21/15 10:42	100-41-4	
Methyl-tert-butyl ether	**30.0J**	ug/kg	71.6	29.8	1	10/21/15 07:09	10/21/15 10:42	1634-04-4	
Naphthalene	**140**	ug/kg	71.6	29.8	1	10/21/15 07:09	10/21/15 10:42	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:42	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 10:42		W
1,2,4-Trimethylbenzene	**58.5J**	ug/kg	71.6	29.8	1	10/21/15 07:09	10/21/15 10:42	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:42	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 10:42	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 10:42	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 10:42	95-47-6	W

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 1 15-16 **Lab ID: 40123161004** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/15 07:09	10/21/15 10:42	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 1 18-19 **Lab ID: 40123161005** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**56.9J**	ug/kg	68.8	28.7	1	10/21/15 07:09	10/21/15 11:08	71-43-2	
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:08	100-41-4	W
Methyl-tert-butyl ether	**112**	ug/kg	68.8	28.7	1	10/21/15 07:09	10/21/15 11:08	1634-04-4	
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:08	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:08	108-88-3	W
Total Trimethylbenzenes	**161**	ug/kg	138	57.3	1	10/21/15 07:09	10/21/15 11:08		
1,2,4-Trimethylbenzene	**116**	ug/kg	68.8	28.7	1	10/21/15 07:09	10/21/15 11:08	95-63-6	
1,3,5-Trimethylbenzene	**45.2J**	ug/kg	68.8	28.7	1	10/21/15 07:09	10/21/15 11:08	108-67-8	
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 11:08	1330-20-7	W
m&p-Xylene	**57.6J**	ug/kg	138	57.3	1	10/21/15 07:09	10/21/15 11:08	179601-23-1	
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:08	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/15 07:09	10/21/15 11:08	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.7**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 2 3-4 **Lab ID: 40123161006** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**13000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	71-43-2	
Ethylbenzene	**52600**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	100-41-4	
Methyl-tert-butyl ether	**<2500**	ug/kg	6000	2500	100	10/21/15 07:09	10/21/15 17:59	1634-04-4	W
Naphthalene	**116000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	91-20-3	
Toluene	**243000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	108-88-3	
Total Trimethylbenzenes	**965000**	ug/kg	14500	6040	100	10/21/15 07:09	10/21/15 17:59		
1,2,4-Trimethylbenzene	**712000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	95-63-6	

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 2 3-4 **Lab ID: 40123161006** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
1,3,5-Trimethylbenzene	**253000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	108-67-8	
Xylene (Total)	**899000**	ug/kg	21700	9060	100	10/21/15 07:09	10/21/15 17:59	1330-20-7	
m&p-Xylene	**598000**	ug/kg	14500	6040	100	10/21/15 07:09	10/21/15 17:59	179601-23-1	
o-Xylene	**302000**	ug/kg	7250	3020	100	10/21/15 07:09	10/21/15 17:59	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		100	10/21/15 07:09	10/21/15 17:59	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.2**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 2 7-8 **Lab ID: 40123161007** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**2460**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	71-43-2	
Ethylbenzene	**1410**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 16:42	1634-04-4	W
Naphthalene	**767**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	91-20-3	
Toluene	**7050**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	108-88-3	
Total Trimethylbenzenes	**4560**	ug/kg	137	56.9	1	10/21/15 07:09	10/21/15 16:42		
1,2,4-Trimethylbenzene	**3420**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	95-63-6	
1,3,5-Trimethylbenzene	**1140**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	108-67-8	
Xylene (Total)	**7860**	ug/kg	205	85.4	1	10/21/15 07:09	10/21/15 16:42	1330-20-7	
m&p-Xylene	**5660**	ug/kg	137	56.9	1	10/21/15 07:09	10/21/15 16:42	179601-23-1	
o-Xylene	**2200**	ug/kg	68.3	28.5	1	10/21/15 07:09	10/21/15 16:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	10/21/15 07:09	10/21/15 16:42	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 2 11-12 **Lab ID: 40123161008** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**2850**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	71-43-2	
Ethylbenzene	**701**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	100-41-4	
Methyl-tert-butyl ether	**42.5J**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	1634-04-4	

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 2 11-12 **Lab ID: 40123161008** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Naphthalene	**423**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	91-20-3	
Toluene	**1280**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	108-88-3	
Total Trimethylbenzenes	**1320**	ug/kg	144	59.9	1	10/21/15 07:09	10/21/15 15:25		
1,2,4-Trimethylbenzene	**962**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	95-63-6	
1,3,5-Trimethylbenzene	**356**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	108-67-8	
Xylene (Total)	**2020**	ug/kg	216	89.9	1	10/21/15 07:09	10/21/15 15:25	1330-20-7	
m&p-Xylene	**1650**	ug/kg	144	59.9	1	10/21/15 07:09	10/21/15 15:25	179601-23-1	
o-Xylene	**366**	ug/kg	71.9	30.0	1	10/21/15 07:09	10/21/15 15:25	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/15 07:09	10/21/15 15:25	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.5**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 2 15-16 **Lab ID: 40123161009** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**14500**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	71-43-2	
Ethylbenzene	**25300**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	100-41-4	
Methyl-tert-butyl ether	**826**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	1634-04-4	
Naphthalene	**9570**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	91-20-3	
Toluene	**65500**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	108-88-3	
Total Trimethylbenzenes	**78200**	ug/kg	1460	608	10	10/21/15 07:09	10/21/15 19:16		
1,2,4-Trimethylbenzene	**57900**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	95-63-6	
1,3,5-Trimethylbenzene	**20300**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	108-67-8	
Xylene (Total)	**120000**	ug/kg	2190	912	10	10/21/15 07:09	10/21/15 19:16	1330-20-7	
m&p-Xylene	**91200**	ug/kg	1460	608	10	10/21/15 07:09	10/21/15 19:16	179601-23-1	
o-Xylene	**28900**	ug/kg	730	304	10	10/21/15 07:09	10/21/15 19:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		10	10/21/15 07:09	10/21/15 19:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.8**	%	0.10	0.10	1		10/22/15 15:34		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 3 3-4 **Lab ID: 40123161010** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**1900**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	71-43-2	
Ethylbenzene	**2570**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 16:16	1634-04-4	W
Naphthalene	**2890**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	91-20-3	
Toluene	**243**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	108-88-3	
Total Trimethylbenzenes	**9550**	ug/kg	162	67.5	1	10/21/15 07:09	10/21/15 16:16		
1,2,4-Trimethylbenzene	**7190**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	95-63-6	
1,3,5-Trimethylbenzene	**2350**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	108-67-8	
Xylene (Total)	**11200**	ug/kg	243	101	1	10/21/15 07:09	10/21/15 16:16	1330-20-7	
m&p-Xylene	**8340**	ug/kg	162	67.5	1	10/21/15 07:09	10/21/15 16:16	179601-23-1	
o-Xylene	**2910**	ug/kg	81.0	33.8	1	10/21/15 07:09	10/21/15 16:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		1	10/21/15 07:09	10/21/15 16:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.9**	%	0.10	0.10	1		10/22/15 15:34		

Sample: 3 7-8 **Lab ID: 40123161011** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**59.7J**	ug/kg	67.7	28.2	1	10/21/15 07:09	10/21/15 14:08	71-43-2	
Ethylbenzene	**86.8**	ug/kg	67.7	28.2	1	10/21/15 07:09	10/21/15 14:08	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 14:08	1634-04-4	W
Naphthalene	**40.2J**	ug/kg	67.7	28.2	1	10/21/15 07:09	10/21/15 14:08	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 14:08	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 14:08		W
1,2,4-Trimethylbenzene	**47.9J**	ug/kg	67.7	28.2	1	10/21/15 07:09	10/21/15 14:08	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 14:08	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 14:08	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 14:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 14:08	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/15 07:09	10/21/15 14:08	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.3**	%	0.10	0.10	1		10/22/15 15:35		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 3 11-12 Lab ID: **40123161012** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 11:34		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 11:34	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 11:34	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:34	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/15 07:09	10/21/15 11:34	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.1**	%	0.10	0.10	1		10/22/15 15:35		

Sample: 4 3-4 Lab ID: **40123161013** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**2880**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	71-43-2	
Ethylbenzene	**584**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:42	1634-04-4	W
Naphthalene	**94.7**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	91-20-3	
Toluene	**198**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	108-88-3	
Total Trimethylbenzenes	**974**	ug/kg	146	61.0	1	10/21/15 07:09	10/21/15 13:42		
1,2,4-Trimethylbenzene	**724**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	95-63-6	
1,3,5-Trimethylbenzene	**251**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	108-67-8	
Xylene (Total)	**2510**	ug/kg	220	91.5	1	10/21/15 07:09	10/21/15 13:42	1330-20-7	
m&p-Xylene	**1740**	ug/kg	146	61.0	1	10/21/15 07:09	10/21/15 13:42	179601-23-1	
o-Xylene	**766**	ug/kg	73.2	30.5	1	10/21/15 07:09	10/21/15 13:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	10/21/15 07:09	10/21/15 13:42	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.0**	%	0.10	0.10	1		10/22/15 15:35		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 4 7-8 **Lab ID: 40123161014** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**23200**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	71-43-2	
Ethylbenzene	**40600**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	100-41-4	
Methyl-tert-butyl ether	**1000J**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	1634-04-4	
Naphthalene	**14700**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	91-20-3	
Toluene	**133000**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	108-88-3	
Total Trimethylbenzenes	**119000**	ug/kg	2760	1150	20	10/21/15 07:09	10/21/15 17:08		
1,2,4-Trimethylbenzene	**89100**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	95-63-6	
1,3,5-Trimethylbenzene	**30300**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	108-67-8	
Xylene (Total)	**208000**	ug/kg	4140	1720	20	10/21/15 07:09	10/21/15 17:08	1330-20-7	
m&p-Xylene	**153000**	ug/kg	2760	1150	20	10/21/15 07:09	10/21/15 17:08	179601-23-1	
o-Xylene	**55200**	ug/kg	1380	575	20	10/21/15 07:09	10/21/15 17:08	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		20	10/21/15 07:09	10/21/15 17:08	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.0**	%	0.10	0.10	1		10/22/15 15:35		

Sample: 4 11-12 **Lab ID: 40123161015** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	100-41-4	W
Methyl-tert-butyl ether	**62.8J**	ug/kg	70.5	29.4	1	10/21/15 07:09	10/21/15 11:59	1634-04-4	
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 11:59		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 11:59	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 11:59	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 11:59	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	10/21/15 07:09	10/21/15 11:59	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		10/22/15 15:35		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 5 3-4 **Lab ID: 40123161016** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**3280**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	71-43-2	
Ethylbenzene	**19400**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	100-41-4	
Methyl-tert-butyl ether	**<625**	ug/kg	1500	625	25	10/21/15 07:09	10/21/15 18:50	1634-04-4	W
Naphthalene	**35100**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	91-20-3	
Toluene	**86600**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	108-88-3	
Total Trimethylbenzenes	**341000**	ug/kg	3930	1640	25	10/21/15 07:09	10/21/15 18:50		
1,2,4-Trimethylbenzene	**251000**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	95-63-6	
1,3,5-Trimethylbenzene	**90100**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	108-67-8	
Xylene (Total)	**399000**	ug/kg	5900	2460	25	10/21/15 07:09	10/21/15 18:50	1330-20-7	
m&p-Xylene	**238000**	ug/kg	3930	1640	25	10/21/15 07:09	10/21/15 18:50	179601-23-1	
o-Xylene	**161000**	ug/kg	1970	819	25	10/21/15 07:09	10/21/15 18:50	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		25	10/21/15 07:09	10/21/15 18:50	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.7**	%	0.10	0.10	1		10/22/15 15:35		

Sample: 5 7-8 **Lab ID: 40123161017** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**4350**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	71-43-2	
Ethylbenzene	**13800**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	100-41-4	
Methyl-tert-butyl ether	**406J**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	1634-04-4	
Naphthalene	**5570**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	91-20-3	
Toluene	**43100**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	108-88-3	
Total Trimethylbenzenes	**49300**	ug/kg	1120	467	8	10/21/15 07:09	10/21/15 17:33		
1,2,4-Trimethylbenzene	**36600**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	95-63-6	
1,3,5-Trimethylbenzene	**12700**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	108-67-8	
Xylene (Total)	**69900**	ug/kg	1680	700	8	10/21/15 07:09	10/21/15 17:33	1330-20-7	
m&p-Xylene	**49200**	ug/kg	1120	467	8	10/21/15 07:09	10/21/15 17:33	179601-23-1	
o-Xylene	**20700**	ug/kg	560	233	8	10/21/15 07:09	10/21/15 17:33	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		8	10/21/15 07:09	10/21/15 17:33	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.3**	%	0.10	0.10	1		10/22/15 15:35		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 5 11-12 **Lab ID: 40123161018** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**4230**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	71-43-2	
Ethylbenzene	**790**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	100-41-4	
Methyl-tert-butyl ether	**318**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	1634-04-4	
Naphthalene	**345**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	91-20-3	
Toluene	**2250**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	108-88-3	
Total Trimethylbenzenes	**1490**	ug/kg	137	57.1	1	10/21/15 07:09	10/21/15 15:51		
1,2,4-Trimethylbenzene	**1110**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	95-63-6	
1,3,5-Trimethylbenzene	**383**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	108-67-8	
Xylene (Total)	**3550**	ug/kg	205	85.6	1	10/21/15 07:09	10/21/15 15:51	1330-20-7	
m&p-Xylene	**2700**	ug/kg	137	57.1	1	10/21/15 07:09	10/21/15 15:51	179601-23-1	
o-Xylene	**849**	ug/kg	68.5	28.5	1	10/21/15 07:09	10/21/15 15:51	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/15 07:09	10/21/15 15:51	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.4**	%	0.10	0.10	1		10/22/15 15:35		

Sample: 6 3-4 **Lab ID: 40123161019** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:25	71-43-2	W
Ethylbenzene	**55.0J**	ug/kg	80.8	33.7	1	10/21/15 07:09	10/21/15 12:25	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:25	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:25	91-20-3	W
Toluene	**170**	ug/kg	80.8	33.7	1	10/21/15 07:09	10/21/15 12:25	108-88-3	
Total Trimethylbenzenes	**138J**	ug/kg	162	67.4	1	10/21/15 07:09	10/21/15 12:25		
1,2,4-Trimethylbenzene	**97.3**	ug/kg	80.8	33.7	1	10/21/15 07:09	10/21/15 12:25	95-63-6	
1,3,5-Trimethylbenzene	**40.4J**	ug/kg	80.8	33.7	1	10/21/15 07:09	10/21/15 12:25	108-67-8	
Xylene (Total)	**295**	ug/kg	243	101	1	10/21/15 07:09	10/21/15 12:25	1330-20-7	
m&p-Xylene	**223**	ug/kg	162	67.4	1	10/21/15 07:09	10/21/15 12:25	179601-23-1	
o-Xylene	**72.7J**	ug/kg	80.8	33.7	1	10/21/15 07:09	10/21/15 12:25	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	10/21/15 07:09	10/21/15 12:25	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.8**	%	0.10	0.10	1		10/22/15 15:35		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 6 7-8 **Lab ID: 40123161020** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 12:51		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 12:51	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 12:51	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 12:51	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/21/15 07:09	10/21/15 12:51	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		10/22/15 16:43		

Sample: 6 11-12 **Lab ID: 40123161021** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 13:16		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	180	75.0	1	10/21/15 07:09	10/21/15 13:16	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/21/15 07:09	10/21/15 13:16	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/21/15 07:09	10/21/15 13:16	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	10/21/15 07:09	10/21/15 13:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.0**	%	0.10	0.10	1		10/22/15 16:43		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 7 3-4 Lab ID: **40123161022** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 10:40		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	10/22/15 07:00	10/22/15 10:40	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 10:40	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 10:40	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	10/22/15 07:00	10/22/15 10:40	98-08-8	1q,P4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.1**	%	0.10	0.10	1		10/22/15 16:43		

Sample: 7 7-8 Lab ID: **40123161023** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<50.0**	ug/kg	100	50.0	2	10/22/15 07:00	10/22/15 15:48	71-43-2	W
Ethylbenzene	**2880**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	100-41-4	
Methyl-tert-butyl ether	**353**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	1634-04-4	
Naphthalene	**1860**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	91-20-3	
Toluene	**108J**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	108-88-3	
Total Trimethylbenzenes	**9970**	ug/kg	249	124	2	10/22/15 07:00	10/22/15 15:48		
1,2,4-Trimethylbenzene	**5870**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	95-63-6	
1,3,5-Trimethylbenzene	**4100**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	108-67-8	
Xylene (Total)	**3130**	ug/kg	373	187	2	10/22/15 07:00	10/22/15 15:48	1330-20-7	
m&p-Xylene	**3050**	ug/kg	249	124	2	10/22/15 07:00	10/22/15 15:48	179601-23-1	
o-Xylene	**81.2J**	ug/kg	124	62.2	2	10/22/15 07:00	10/22/15 15:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	95	%	80-120		2	10/22/15 07:00	10/22/15 15:48	98-08-8	D3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		10/22/15 16:43		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 7 11-12 **Lab ID: 40123161024** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<50.0**	ug/kg	100	50.0	2	10/22/15 07:00	10/22/15 16:14	71-43-2	W
Ethylbenzene	**2560**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	100-41-4	
Methyl-tert-butyl ether	**409**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	1634-04-4	
Naphthalene	**1360**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	91-20-3	
Toluene	**209**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	108-88-3	
Total Trimethylbenzenes	**8130**	ug/kg	244	122	2	10/22/15 07:00	10/22/15 16:14		
1,2,4-Trimethylbenzene	**3960**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	95-63-6	
1,3,5-Trimethylbenzene	**4170**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	108-67-8	
Xylene (Total)	**3280**	ug/kg	367	183	2	10/22/15 07:00	10/22/15 16:14	1330-20-7	
m&p-Xylene	**3070**	ug/kg	244	122	2	10/22/15 07:00	10/22/15 16:14	179601-23-1	
o-Xylene	**211**	ug/kg	122	61.1	2	10/22/15 07:00	10/22/15 16:14	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	92	%	80-120		2	10/22/15 07:00	10/22/15 16:14	98-08-8	D3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.2**	%	0.10	0.10	1		10/22/15 16:43		

Sample: 8 3-4 **Lab ID: 40123161025** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 11:05		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	10/22/15 07:00	10/22/15 11:05	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 11:05	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:05	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	10/22/15 07:00	10/22/15 11:05	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.4**	%	0.10	0.10	1		10/22/15 16:43		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 8 7-8 **Lab ID: 40123161026** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 11:31		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	10/22/15 07:00	10/22/15 11:31	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 11:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 11:31	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	10/22/15 07:00	10/22/15 11:31	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.4**	%	0.10	0.10	1		10/22/15 16:43		

Sample: 9 3-4 **Lab ID: 40123161027** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	71-43-2	W
Ethylbenzene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	100-41-4	W
Methyl-tert-butyl ether	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	1634-04-4	W
Naphthalene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	91-20-3	W
Toluene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	108-88-3	W
Total Trimethylbenzenes	**<51.0**	ug/kg	102	51.0	1	10/22/15 07:00	10/22/15 11:57		W
1,2,4-Trimethylbenzene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	95-63-6	W
1,3,5-Trimethylbenzene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	108-67-8	W
Xylene (Total)	**<76.5**	ug/kg	153	76.5	1	10/22/15 07:00	10/22/15 11:57	1330-20-7	W
m&p-Xylene	**<51.0**	ug/kg	102	51.0	1	10/22/15 07:00	10/22/15 11:57	179601-23-1	W
o-Xylene	**<25.5**	ug/kg	51.0	25.5	1	10/22/15 07:00	10/22/15 11:57	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	10/22/15 07:00	10/22/15 11:57	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.9**	%	0.10	0.10	1		10/22/15 16:43		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: 9 7-8 **Lab ID: 40123161028** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 12:23		W
1,2,4-Trimethylbenzene	**33.1J**	ug/kg	60.9	30.4	1	10/22/15 07:00	10/22/15 12:23	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	10/22/15 07:00	10/22/15 12:23	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 12:23	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:23	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	10/22/15 07:00	10/22/15 12:23	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.9**	%	0.10	0.10	1		10/22/15 16:43		

Sample: 9 11-12 **Lab ID: 40123161029** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 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 Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	108-88-3	W
Total Trimethylbenzenes	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 12:48		W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	108-67-8	W
Xylene (Total)	**<75.0**	ug/kg	150	75.0	1	10/22/15 07:00	10/22/15 12:48	1330-20-7	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	10/22/15 07:00	10/22/15 12:48	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	10/22/15 07:00	10/22/15 12:48	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	10/22/15 07:00	10/22/15 12:48	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.7**	%	0.10	0.10	1		10/22/15 16:43		

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40123161

Sample: TRIP BLANK **Lab ID: 40123161030** Collected: 10/16/15 00:00 Received: 10/20/15 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		10/22/15 20:36	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		10/22/15 20:36	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		10/22/15 20:36	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		10/22/15 20:36	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		10/22/15 20:36	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/22/15 20:36	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		10/22/15 20:36	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		10/22/15 20:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		10/22/15 20:36	98-08-8	

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QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: GCV/15220 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40123161002, 40123161003, 40123161004, 40123161005, 40123161006, 40123161007, 40123161008, 40123161009, 40123161010, 40123161011, 40123161012, 40123161013, 40123161014, 40123161015, 40123161016, 40123161017, 40123161018, 40123161019, 40123161020, 40123161021

METHOD BLANK: 1243148 Matrix: Solid
Associated Lab Samples: 40123161002, 40123161003, 40123161004, 40123161005, 40123161006, 40123161007, 40123161008, 40123161009, 40123161010, 40123161011, 40123161012, 40123161013, 40123161014, 40123161015, 40123161016, 40123161017, 40123161018, 40123161019, 40123161020, 40123161021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	10/21/15 08:34	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	10/21/15 08:34	
Benzene	ug/kg	<25.0	50.0	10/21/15 08:34	
Ethylbenzene	ug/kg	<25.0	50.0	10/21/15 08:34	
m&p-Xylene	ug/kg	<50.0	100	10/21/15 08:34	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	10/21/15 08:34	
Naphthalene	ug/kg	<25.0	50.0	10/21/15 08:34	
o-Xylene	ug/kg	<25.0	50.0	10/21/15 08:34	
Toluene	ug/kg	<25.0	50.0	10/21/15 08:34	
Total Trimethylbenzenes	ug/kg	<50.0	100	10/21/15 08:34	
Xylene (Total)	ug/kg	<75.0	150	10/21/15 08:34	
a,a,a-Trifluorotoluene (S)	%	102	80-120	10/21/15 08:34	

LABORATORY CONTROL SAMPLE & LCSD: 1243149 1243150

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1080	1080	108	108	80-120	0	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1050	1050	105	105	80-120	0	20	
Benzene	ug/kg	1000	1020	1020	102	102	80-120	0	20	
Ethylbenzene	ug/kg	1000	1060	1060	106	106	80-120	0	20	
m&p-Xylene	ug/kg	2000	2110	2120	105	106	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	983	1000	98	100	80-120	2	20	
Naphthalene	ug/kg	1000	1050	1080	105	108	80-120	3	20	
o-Xylene	ug/kg	1000	1050	1060	105	106	80-120	1	20	
Toluene	ug/kg	1000	1020	1030	102	103	80-120	0	20	
Total Trimethylbenzenes	ug/kg	2000	2130	2130	106	107	80-120	0	20	
Xylene (Total)	ug/kg	3000	3160	3180	105	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	103	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.

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QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: GCV/15225 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40123161001, 40123161022, 40123161023, 40123161024, 40123161025, 40123161026, 40123161027, 40123161028, 40123161029

METHOD BLANK: 1244117 Matrix: Solid
Associated Lab Samples: 40123161001, 40123161022, 40123161023, 40123161024, 40123161025, 40123161026, 40123161027, 40123161028, 40123161029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	10/22/15 08:57	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	10/22/15 08:57	
Benzene	ug/kg	<25.0	50.0	10/22/15 08:57	
Ethylbenzene	ug/kg	<25.0	50.0	10/22/15 08:57	
Gasoline Range Organics	mg/kg	<1.6	5.0	10/22/15 08:57	
m&p-Xylene	ug/kg	<50.0	100	10/22/15 08:57	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	10/22/15 08:57	
Naphthalene	ug/kg	<25.0	50.0	10/22/15 08:57	
o-Xylene	ug/kg	<25.0	50.0	10/22/15 08:57	
Toluene	ug/kg	<25.0	50.0	10/22/15 08:57	
Total Trimethylbenzenes	ug/kg	<50.0	100	10/22/15 08:57	
Xylene (Total)	ug/kg	<75.0	150	10/22/15 08:57	
a,a,a-Trifluorotoluene (S)	%	99	80-120	10/22/15 08:57	

LABORATORY CONTROL SAMPLE & LCSD: 1244118 1244119

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	935	991	93	99	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	923	980	92	98	80-120	6	20	
Benzene	ug/kg	1000	930	992	93	99	80-120	6	20	
Ethylbenzene	ug/kg	1000	945	998	94	100	80-120	5	20	
Gasoline Range Organics	mg/kg	10	8.7	9.5	87	95	80-120	8	20	
m&p-Xylene	ug/kg	2000	1870	1980	94	99	80-120	6	20	
Methyl-tert-butyl ether	ug/kg	1000	964	962	96	96	80-120	0	20	
Naphthalene	ug/kg	1000	944	970	94	97	80-120	3	20	
o-Xylene	ug/kg	1000	960	1010	96	101	80-120	6	20	
Toluene	ug/kg	1000	939	989	94	99	80-120	5	20	
Total Trimethylbenzenes	ug/kg	2000	1860	1970	93	99	80-120	6	20	
Xylene (Total)	ug/kg	3000	2830	3000	94	100	80-120	6	20	
a,a,a-Trifluorotoluene (S)	%				102	101	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: GCV/15224
QC Batch Method: WI MOD GRO
Associated Lab Samples: 40123161030

Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water

METHOD BLANK: 1244114
Associated Lab Samples: 40123161030

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	10/22/15 09:53	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	10/22/15 09:53	
Benzene	ug/L	<0.40	1.0	10/22/15 09:53	
Ethylbenzene	ug/L	<0.39	1.0	10/22/15 09:53	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	10/22/15 09:53	
Naphthalene	ug/L	<0.42	1.0	10/22/15 09:53	
Toluene	ug/L	<0.39	1.0	10/22/15 09:53	
Xylene (Total)	ug/L	<1.2	3.0	10/22/15 09:53	
a,a,a-Trifluorotoluene (S)	%	101	80-120	10/22/15 09:53	

LABORATORY CONTROL SAMPLE & LCSD: 1244115 1244116

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.0	21.0	105	105	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.5	20.3	103	101	80-120	1	20	
Benzene	ug/L	20	21.3	21.1	106	105	80-120	1	20	
Ethylbenzene	ug/L	20	19.9	19.7	99	99	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.9	21.9	110	110	80-120	0	20	
Naphthalene	ug/L	20	20.7	21.6	104	108	80-120	4	20	
Toluene	ug/L	20	20.2	20.2	101	101	80-120	0	20	
Xylene (Total)	ug/L	60	60.1	60.1	100	100	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1244382 1244383

Parameter	Units	10326490008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	496	100	100	640	611	144	115	29-200	5	20	
1,3,5-Trimethylbenzene	ug/L	148	100	100	264	253	116	105	57-171	4	20	
Benzene	ug/L	185	100	100	276	269	91	84	69-150	3	20	
Ethylbenzene	ug/L	393	100	100	482	466	89	73	80-146	3	20	M1
Methyl-tert-butyl ether	ug/L	ND	100	100	97.6	96.8	98	97	80-120	1	20	
Naphthalene	ug/L	675	100	100	782	760	107	85	66-137	3	20	
Toluene	ug/L	498	100	100	593	577	95	78	67-156	3	20	
Xylene (Total)	ug/L	1400	300	300	1720	1650	105	83	71-162	4	20	
a,a,a-Trifluorotoluene (S)	%						107	105	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: MSV/30931
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 40123161001

METHOD BLANK: 1247459
Matrix: Water
Associated Lab Samples: 40123161001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<0.50	1.0	10/29/15 17:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/29/15 17:14	
Dibromofluoromethane (S)	%	101	70-130	10/29/15 17:14	
Toluene-d8 (S)	%	99	70-130	10/29/15 17:14	

METHOD BLANK: 1246985
Matrix: Solid
Associated Lab Samples: 40123161001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	<5.0	10.0	10/29/15 21:00	
4-Bromofluorobenzene (S)	%	96	70-130	10/29/15 21:00	
Dibromofluoromethane (S)	%	96	70-130	10/29/15 21:00	
Toluene-d8 (S)	%	99	70-130	10/29/15 21:00	

LABORATORY CONTROL SAMPLE: 1247460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	53.5	107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1248650 1248651

Parameter	Units	40123161001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	11.9	500	500	542	539	106	105	70-130	1	20	
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						99	97	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: PMST/11995 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40123161001, 40123161002, 40123161003, 40123161004, 40123161005, 40123161006, 40123161007, 40123161008, 40123161009, 40123161010, 40123161011, 40123161012, 40123161013, 40123161014, 40123161015, 40123161016, 40123161017, 40123161018, 40123161019

SAMPLE DUPLICATE: 1244986

Parameter	Units	40123162002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.0	17.7	2	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40123161

QC Batch: PMST/11998 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40123161020, 40123161021, 40123161022, 40123161023, 40123161024, 40123161025, 40123161026, 40123161027, 40123161028, 40123161029

SAMPLE DUPLICATE: 1245030

Parameter	Units	40123161028 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.9	17.5	2	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.

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALIFIERS

Project: OLSON GOODMAN
Pace Project No.: 40123161

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

1q	Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
W	Non-detect results are reported on a wet weight basis.

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Green Bay, WI 54302
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40123161

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40123161001	1 3-4	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161002	1 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161003	1 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161004	1 15-16	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161005	1 18-19	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161006	2 3-4	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161007	2 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161008	2 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161009	2 15-16	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161010	3 3-4	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161011	3 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161012	3 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161013	4 3-4	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161014	4 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161015	4 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161016	5 3-4	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161017	5 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161018	5 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161019	6 3-4	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161020	6 7-8	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161021	6 11-12	TPH GRO/PVOC WI ext.	GCV/15220	WI MOD GRO	GCV/15223
40123161022	7 3-4	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161023	7 7-8	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161024	7 11-12	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161025	8 3-4	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161026	8 7-8	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161027	9 3-4	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161028	9 7-8	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161029	9 11-12	TPH GRO/PVOC WI ext.	GCV/15225	WI MOD GRO	GCV/15228
40123161030	TRIP BLANK	WI MOD GRO	GCV/15224		
40123161001	1 3-4	EPA 8260	MSV/30931		
40123161001	1 3-4	ASTM D2974-87	PMST/11995		
40123161002	1 7-8	ASTM D2974-87	PMST/11995		
40123161003	1 11-12	ASTM D2974-87	PMST/11995		
40123161004	1 15-16	ASTM D2974-87	PMST/11995		
40123161005	1 18-19	ASTM D2974-87	PMST/11995		
40123161006	2 3-4	ASTM D2974-87	PMST/11995		
40123161007	2 7-8	ASTM D2974-87	PMST/11995		
40123161008	2 11-12	ASTM D2974-87	PMST/11995		
40123161009	2 15-16	ASTM D2974-87	PMST/11995		
40123161010	3 3-4	ASTM D2974-87	PMST/11995		
40123161011	3 7-8	ASTM D2974-87	PMST/11995		
40123161012	3 11-12	ASTM D2974-87	PMST/11995		
40123161013	4 3-4	ASTM D2974-87	PMST/11995		
40123161014	4 7-8	ASTM D2974-87	PMST/11995		
40123161015	4 11-12	ASTM D2974-87	PMST/11995		

Pace Analytical Services, Inc.
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40123161

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40123161016	5 3-4	ASTM D2974-87	PMST/11995		
40123161017	5 7-8	ASTM D2974-87	PMST/11995		
40123161018	5 11-12	ASTM D2974-87	PMST/11995		
40123161019	6 3-4	ASTM D2974-87	PMST/11995		
40123161020	6 7-8	ASTM D2974-87	PMST/11998		
40123161021	6 11-12	ASTM D2974-87	PMST/11998		
40123161022	7 3-4	ASTM D2974-87	PMST/11998		
40123161023	7 7-8	ASTM D2974-87	PMST/11998		
40123161024	7 11-12	ASTM D2974-87	PMST/11998		
40123161025	8 3-4	ASTM D2974-87	PMST/11998		
40123161026	8 7-8	ASTM D2974-87	PMST/11998		
40123161027	9 3-4	ASTM D2974-87	PMST/11998		
40123161028	9 7-8	ASTM D2974-87	PMST/11998		
40123161029	9 11-12	ASTM D2974-87	PMST/11998		

(Please Print Clearly)

Company Name:	Meridian Env. Co. Itg LLC
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	
Project Number:	
Project Name:	E. Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

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

4012316l

CHAIN OF CUSTODY

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

Quote #:	
Mail To Contact:	~~Mike~~ Ken Shimko
Mail To Company:	Meridian E. Co.
Mail To Address:	2711 W. Florence Fall Creek WI 54742
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analysis Requested: PVOC + Naph	TCLP - Benzene	GRO	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	1 3-4	10/16		S			X	X	X	1-4ozAg*	1-40ml F 1-4ozP*	
002	7-8											
003	11-12											
004	15-16											
005	18-19											
006	2 3-4											
007	7-8											
008	11-12											
009	15-16											
010	3 3-4											
011	7-8											
012	11-12											

Page 1 of 3

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: Dunham	Date/Time: 10/20/15 0730	Received By: Melissa Vineme Pace	Date/Time: 10/20/15 0730
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
4012316l

Receipt Temp = 2.0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

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Page 2 of 3

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Meridian
Branch/Location:	
Project Contact:	Ken Shinko
Phone:	715-579-0723
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shinko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shinko
Mail To Company:	Meridian
Mail To Address:	Fall Creek WI
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analysis Requested: X PUBL + Mgh	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
013	4 3-4	10/16		S	X		1-40mlF 1-4ozPA	
014	7-8							
015	11-12							
016	5 3-4							
017	7-8							
018	11-12							
019 (10/20 MV)	6 3-4							
020	7-8							
021	11-12							
022	7 3-4							
023	7-8							
024	11-12							

Page 2 of 3

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: Dunham	Date/Time: 10/20/15 0730	Received By: Melissa Vanderpan	Date/Time: 10/20/15 0730
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.: 40123161
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present; Intact / Not Intact

C019a(27Jun2006)
Version 6.0 08/14/06

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CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Meridian E.C.
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-579-0783
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian
Mail To Address:	Fall Creek WI
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: 1 X Product Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
025	8 3-4	10/16		S					1-40ml F 1-4oz PA	
026	7-8	"		"						
027	9 3-4	"		"						
028	7-8	"		"						
029	11-12	"		"						
030	Trip Blank ①								2-40ml B	

Page 3 of 3

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	10/19/15 9am	Dunham	10/19/15 9am
Dunham	10/20/15 0730	Melissa Veneman Pace	10/20/15 0730

PACE Project No.
40123161

Receipt Temp = 2.01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

① Received in cooler added to COC by M. Lan 10/20/15 MV

Version 6.0 06/14/06

ORIGINAL

Pace Container Order #79937

40123161

Addresses

Order By :		Ship To :		Return To:	
Company	Meridian Environmental Consulting,	Company	Meridian Environmental Consulting,	Company	Pace Analytical Green Bay
Contact	Shimko, Kenneth	Contact	Shimko, Kenneth	Contact	Basten, Brian
Email	kshimko.meridianenv@gmail.com	Email	kshimko.meridianenv@gmail.com	Email	brian.basten@pacelabs.com
Address	2711 North Elco Rd	Address	2711 North Elco Rd	Address	1241 Bellevue Street
Address 2		Address 2		Address 2	Suite 9
City	Fall Creek	City	Fall Creek	City	Green Bay
State	WI Zip 54742	State	WI Zip 54742	State	WI Zip 54302
Phone	715-579-0723	Phone	715-579-0723	Phone	(920) 469-2436

Info

Project Name	Olson	**Due Date**	09/21/2015	**Profile**		**Quote**	
Project Manager	Basten, Brian	**Return**		**Carrier**	Most Economical	**Location**	WI

Trip Blanks

- [ ] Include Trip Blanks

Bottle Labels

- [X] Blank
- [ ] Pre-Printed No Sample IDs
- [ ] Pre-Printed With Sample IDs

Bottles

- [ ] Boxed Cases
- [ ] Individually Wrapped
- [ ] Grouped By Sample

Return Shipping Labels

- [ ] No Shipper Number
- [ ] With Shipper Number

Misc

- [X] Sampling Instructions
- [ ] Custody Seal
- [ ] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush Stickers
- [ ] DI Water Liter(s)
- [ ] USDA Regulated Soils

COC Options

- [X] Number of Blanks 3
- [ ] Pre-Printed

# of Samples	Matrix	Test	Container	# of QC	Total	Lot #	Notes
30	SL	VOC WI List	1-40mL vial, 10mL MeOH	0	31	081715-3CDP	
30	SL	10g Sampling Tool	Plastic 10 gram cut off syringe	0	30	NA	
30	SL	Moisture/ Dry weight / Lead	1-4oz Plastic Jar Unpreserved	0	30	16320731	
2	WT	VOC WI List 8260	3-40 ml HCl	0	6	081715-3BZB	
1	WT	Trip BLANK	2-40mL HCL w/custody seal	0	2	080315-3CCL	

Hazard Shipping Placard In Place : NA

*Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with you project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	09/24/2015
Prepared By:	Mai Yer Her
Verified By:	

Sample Condition Upon Receipt

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

Project #: WO# : 40123161

40123161

Client Name: Meridian

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Denham

Tracking #: 1071993

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

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

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

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

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

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 10/20/15
Initials: MV

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1. Received original + copy of COC's 10/20/15 MV
Chain of Custody Filled Out: KF 10/20/15	☐Yes ☑No ☐N/A	2. no collect times KF 10/20/15
Chain of Custody Relinquished:	☑Yes ☑No 10/20/15 MV ☐N/A	3. Only page 3 10/20/15 MV
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☑No ☐N/A	8. 022 vial received w/ no soil per PM
Correct Containers Used:	☑Yes ☐No ☐N/A	9. conversation w/ client they would like soil subsampled from 40z P. 10-20-15 MV
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: KF 10/20/15	☐Yes ☑No ☐N/A	12. no dates/times on any samples KF 10/20/15
-Includes date/time/ID/Analysis Matrix: SW		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15. Added to COC by lab. 10-20-15 MV
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 080315-3CCL		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 10-20-15

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

November 02, 2015

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: Olson Goodman
Pace Project No.: 10326711

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Olson Goodman
Pace Project No.: 10326711

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
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Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Olson Goodman
Pace Project No.: 10326711

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10326711001	VI-1	Air	10/16/15 12:00	10/20/15 10:00

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SAMPLE ANALYTE COUNT

Project: Olson Goodman
Pace Project No.: 10326711

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10326711001	VI-1	TO-15	MLS	8	PASI-M

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ANALYTICAL RESULTS

Project: Olson Goodman
Pace Project No.: 10326711

Sample: VI-1 **Lab ID: 10326711001** Collected: 10/16/15 12:00 Received: 10/20/15 10:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Benzene	**<3.4**	ug/m3	9.0	3.4	27.8		11/01/15 22:34	71-43-2	D3
Ethylbenzene	**<11.8**	ug/m3	24.5	11.8	27.8		11/01/15 22:34	100-41-4	
Methyl-tert-butyl ether	**<8.4**	ug/m3	102	8.4	27.8		11/01/15 22:34	1634-04-4	
Toluene	**<4.3**	ug/m3	21.4	4.3	27.8		11/01/15 22:34	108-88-3	
1,2,4-Trimethylbenzene	**<3.5**	ug/m3	69.4	3.5	27.8		11/01/15 22:34	95-63-6	
1,3,5-Trimethylbenzene	**<5.1**	ug/m3	69.4	5.1	27.8		11/01/15 22:34	108-67-8	
m&p-Xylene	**<21.9**	ug/m3	49.2	21.9	27.8		11/01/15 22:34	179601-23-1	
o-Xylene	**<9.8**	ug/m3	24.5	9.8	27.8		11/01/15 22:34	95-47-6	

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QUALITY CONTROL DATA

Project: Olson Goodman
Pace Project No.: 10326711

QC Batch: AIR/24544
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10326711001

METHOD BLANK: 2123793
Matrix: Air
Associated Lab Samples: 10326711001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.12	2.5	11/01/15 10:56	
1,3,5-Trimethylbenzene	ug/m3	<0.18	2.5	11/01/15 10:56	
Benzene	ug/m3	<0.12	0.32	11/01/15 10:56	
Ethylbenzene	ug/m3	<0.42	0.88	11/01/15 10:56	
m&p-Xylene	ug/m3	<0.79	1.8	11/01/15 10:56	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	11/01/15 10:56	
o-Xylene	ug/m3	<0.35	0.88	11/01/15 10:56	
Toluene	ug/m3	<0.15	0.77	11/01/15 10:56	

LABORATORY CONTROL SAMPLE: 2123794

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	54.0	108	75-134	
1,3,5-Trimethylbenzene	ug/m3	50	63.2	126	75-133	
Benzene	ug/m3	32.5	33.9	104	64-139	
Ethylbenzene	ug/m3	44.2	50.3	114	71-136	
m&p-Xylene	ug/m3	88.3	101	114	71-134	
Methyl-tert-butyl ether	ug/m3	183	183	100	73-134	
o-Xylene	ug/m3	44.2	51.4	116	75-134	
Toluene	ug/m3	38.3	40.1	105	70-129	

SAMPLE DUPLICATE: 2124207

Parameter	Units	10326732001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	ND	<0.17		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.25		25	
Benzene	ug/m3	0.54	0.49	9	25	
Ethylbenzene	ug/m3	ND	0.67J		25	
m&p-Xylene	ug/m3	3.4	3.2	8	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.41		25	
o-Xylene	ug/m3	1.3	1.3	5	25	
Toluene	ug/m3	1.0	0.93J		25	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Olson Goodman
Pace Project No.: 10326711

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

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

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Olson Goodman
Pace Project No.: 10326711

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10326711001	VI-1	TO-15	AIR/24544		

10326711

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

21368

Page: 1 of 1

Section A Required Client Information:

Company: Meridian Env. Cslts
Address: 2711 N. Elco Rd Fall Creek WI 54742
Email To:
Phone: 715-579-0723 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Ken Shimko
Copy To:
Purchase Order No.:
Project Name: Olson Goodman
Project Number:

Section C Invoice Information:

Attention: Ken Shimko
Company Name: Meridian E.C.
Address: 2711 N. Elco Rd Fall Creek WI, 54742
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other ___

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	PUBC7	Pace Lab ID
1	VI-1			10/16	12			28	3	0564									X			001
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
				10/20/15	1000

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	
tmb	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY)

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 29June2015 Page 1 of 1
	Document No.: F-MN-A-106-rev.10	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Meridian Env. Cons

Project #: WO#: 10326711

10326711

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6484 8642 5256

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: ☐ B88A912167504 ☐ B88A9132521491 ☐ 72337080 ☐ 80512447

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: CL 012-115

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☒ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	12.

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
VI-1	0564	1066			

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 10/20/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

November 13, 2015

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSEN GOODMAN
Pace Project No.: 40124476

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on November 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40124476001	MW-1	Water	11/05/15 00:00	11/11/15 08:05

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SAMPLE ANALYTE COUNT

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40124476001	MW-1	WI MOD GRO	LCF	9	PASI-G

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

PROJECT NARRATIVE

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: November 13, 2015

General Information:
1 sample was analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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1241 Bellevue Street - Suite 9
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(920)469-2436

ANALYTICAL RESULTS

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Sample: MW-1 **Lab ID: 40124476001** Collected: 11/05/15 00:00 Received: 11/11/15 08:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**22200**	ug/L	200	79.2	200		11/12/15 16:25	71-43-2	
Ethylbenzene	**2670**	ug/L	200	78.6	200		11/12/15 16:25	100-41-4	
Methyl-tert-butyl ether	**890**	ug/L	200	97.0	200		11/12/15 16:25	1634-04-4	
Naphthalene	**709**	ug/L	200	84.8	200		11/12/15 16:25	91-20-3	
Toluene	**37600**	ug/L	200	77.6	200		11/12/15 16:25	108-88-3	
1,2,4-Trimethylbenzene	**2300**	ug/L	200	83.6	200		11/12/15 16:25	95-63-6	
1,3,5-Trimethylbenzene	**704**	ug/L	200	83.2	200		11/12/15 16:25	108-67-8	
Xylene (Total)	**18100**	ug/L	600	249	200		11/12/15 16:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		200		11/12/15 16:25	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLSEN GOODMAN
Pace Project No.: 40124476

QC Batch: GCV/15344
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40124476001

METHOD BLANK: 1256994 Matrix: Water
Associated Lab Samples: 40124476001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	11/12/15 08:42	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	11/12/15 08:42	
Benzene	ug/L	<0.40	1.0	11/12/15 08:42	
Ethylbenzene	ug/L	<0.39	1.0	11/12/15 08:42	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	11/12/15 08:42	
Naphthalene	ug/L	<0.42	1.0	11/12/15 08:42	
Toluene	ug/L	<0.39	1.0	11/12/15 08:42	
Xylene (Total)	ug/L	<1.2	3.0	11/12/15 08:42	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/12/15 08:42	

LABORATORY CONTROL SAMPLE & LCSD: 1256995 1256996

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.4	19.7	102	99	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	20.1	19.4	100	97	80-120	3	20	
Benzene	ug/L	20	20.8	20.2	104	101	80-120	3	20	
Ethylbenzene	ug/L	20	20.8	20.1	104	100	80-120	4	20	
Methyl-tert-butyl ether	ug/L	20	20.6	20.2	103	101	80-120	2	20	
Naphthalene	ug/L	20	18.7	18.7	94	94	80-120	0	20	
Toluene	ug/L	20	20.7	20.2	103	101	80-120	2	20	
Xylene (Total)	ug/L	60	62.0	59.8	103	100	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				102	103	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1257031 1257032

Parameter	Units	40124474008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	1410	400	400	2060	2080	161	166	29-200	1	20	
1,3,5-Trimethylbenzene	ug/L	351	400	400	884	892	133	135	57-171	1	20	
Benzene	ug/L	<7.9	400	400	465	463	116	116	69-150	0	20	
Ethylbenzene	ug/L	734	400	400	1230	1230	123	123	80-146	0	20	
Methyl-tert-butyl ether	ug/L	<9.7	400	400	446	435	111	109	80-120	2	20	
Naphthalene	ug/L	419	400	400	870	861	113	111	66-137	1	20	
Toluene	ug/L	27.8	400	400	510	496	120	117	67-156	3	20	
Xylene (Total)	ug/L	3640	1200	1200	5260	5300	135	138	71-162	1	20	
a,a,a-Trifluorotoluene (S)	%						105	104	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OLSEN GOODMAN
Pace Project No.: 40124476

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSEN GOODMAN
Pace Project No.: 40124476

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40124476001	MW-1	WI MOD GRO	GCV/15344		

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

Page 1 of

mm.

401244716

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Meridian Env.
Branch/Location:	
Project Contact:	Ken Shinko
Phone:	715-579-0723
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shinko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shinko
Mail To Company:	Meridian Env.
Mail To Address:	2711 N. Flood Rd Fond Creek WI
Invoice To Contact:	54742
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	Pick Letter	PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	11/5	AM	GW			X		3-40mlVB	

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	11/10/15 9a	Dunham	11/10/15 9a
Dunham	11/11/15 0805	CA RA / PACE	11/11/15 0805
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
401244716
Receipt Temp = LOT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

C019a(27Jun2006)

Version 6.0 08/14/06

ORIGINAL

Sample Condition Upon Receipt

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

Project #: WO#: 40124476

40124476

Client Name: Meridian

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Dunham

Tracking #: 1084024

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

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

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

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

Cooler Temperature Uncorr: /Corr: 2.0 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 11/11/15
Initials: CP

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

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 11-11-15

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April 07, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSEN GOODMAN
Pace Project No.: 40130060

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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CERTIFICATIONS

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40130060001	OLSEN MW-1	Water	03/30/16 00:00	04/01/16 07:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130060001	OLSEN MW-1	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: April 07, 2016

General Information:
1 sample was analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/15877

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40130115002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1315648)
  - Toluene

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Sample: OLSEN MW-1 **Lab ID: 40130060001** Collected: 03/30/16 00:00 Received: 04/01/16 07:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**22900**	ug/L	250	99.0	250		04/06/16 19:00	71-43-2	
Ethylbenzene	**5240**	ug/L	250	98.2	250		04/06/16 19:00	100-41-4	
Methyl-tert-butyl ether	**201J**	ug/L	250	121	250		04/06/16 19:00	1634-04-4	
Naphthalene	**4960**	ug/L	250	106	250		04/06/16 19:00	91-20-3	
Toluene	**61800**	ug/L	250	97.0	250		04/06/16 19:00	108-88-3	
1,2,4-Trimethylbenzene	**6740**	ug/L	250	104	250		04/06/16 19:00	95-63-6	
1,3,5-Trimethylbenzene	**1850**	ug/L	250	104	250		04/06/16 19:00	108-67-8	
Xylene (Total)	**30000**	ug/L	750	312	250		04/06/16 19:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		250		04/06/16 19:00	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLSEN GOODMAN
Pace Project No.: 40130060

QC Batch: GCV/15877
QC Batch Method: WI MOD GRO
Associated Lab Samples: 40130060001

Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water

METHOD BLANK: 1315602
Associated Lab Samples: 40130060001

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:27	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:27	
Benzene	ug/L	<0.40	1.0	04/06/16 08:27	
Ethylbenzene	ug/L	<0.39	1.0	04/06/16 08:27	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	04/06/16 08:27	
Naphthalene	ug/L	<0.42	1.0	04/06/16 08:27	
Toluene	ug/L	<0.39	1.0	04/06/16 08:27	
Xylene (Total)	ug/L	<1.2	3.0	04/06/16 08:27	
a,a,a-Trifluorotoluene (S)	%	103	80-120	04/06/16 08:27	

LABORATORY CONTROL SAMPLE & LCSD: 1315603 1315604

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.9	22.2	109	111	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	21.6	21.6	108	108	80-120	0	20	
Benzene	ug/L	20	21.1	21.6	105	108	80-120	2	20	
Ethylbenzene	ug/L	20	21.2	21.5	106	108	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.6	20.9	98	105	80-120	7	20	
Naphthalene	ug/L	20	19.7	22.2	99	111	80-120	12	20	
Toluene	ug/L	20	21.2	21.3	106	106	80-120	0	20	
Xylene (Total)	ug/L	60	63.9	64.7	107	108	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				103	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315648 1315649

Parameter	Units	40130115002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<4.2	200	200	236	235	118	117	29-200	0	20	
1,3,5-Trimethylbenzene	ug/L	<4.2	200	200	229	229	115	114	57-171	0	20	
Benzene	ug/L	<4.0	200	200	225	222	113	111	69-150	2	20	
Ethylbenzene	ug/L	10.2	200	200	243	243	116	116	80-146	0	20	
Methyl-tert-butyl ether	ug/L	<4.8	200	200	212	201	106	100	80-120	5	20	
Naphthalene	ug/L	<4.2	200	200	223	224	111	112	66-137	1	20	
Toluene	ug/L	1600	200	200	1920	1880	162	139	67-156	2	20	M1
Xylene (Total)	ug/L	<12.5	600	600	711	709	116	116	71-162	0	20	
a,a,a-Trifluorotoluene (S)	%						104	104	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.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: OLSEN GOODMAN
Pace Project No.: 40130060

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.

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSEN GOODMAN
Pace Project No.: 40130060

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130060001	OLSEN MW-1	WI MOD GRO	GCV/15877		

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

Page 1 of

40130060

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	Meridian Env Grp
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-832-6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian Env Grp
Mail To Address:	Fall Creek WI
Invoice To Contact:	54742
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: Y/N	Pick Letter	PVOC+Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Olson MW-1	3/30		GW			X		3-40mlVB	

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	3/30/16 9a	J Durham	3/30/16 9a
Durham	4-1-16 0735	Susan Kelly	4-1-16 0735
Relinquished By:	Date/Time:	Received By:	Date/Time:
		Pace	
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No.
40130060
Receipt Temp = ROI °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal
Present / Not Present
Intact / Not Intact

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

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Meridian Env.

Project #: WO#: 40130060

40130060

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Dunhar

Tracking #: 115123

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

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

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

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

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

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 4-1-16 SKW
Initials:

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: 4-1-16 SKW	☒Yes ☐No ☐N/A	2. No Collect time 4-1-16 SKW
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No Collect date on samples. 4-1-16 SKW
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☒No ☐N/A	14.
Trip Blank Present:	☐Yes ☒No ☐N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 4-1-16

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(920)469-2436

June 22, 2016

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSON GOODMAN
Pace Project No.: 40133892

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: OLSON GOODMAN
Pace Project No.: 40133892

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: OLSON GOODMAN
Pace Project No.: 40133892

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40133892001	MW-1	Water	06/14/16 00:00	06/16/16 07:30
40133892002	TRIP BLANK	Water	06/14/16 00:00	06/16/16 07:30

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SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40133892

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40133892001	MW-1	WI MOD GRO	PMS	9	PASI-G
40133892002	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40133892

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: June 22, 2016

General Information:
2 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40133892

Sample: MW-1 **Lab ID: 40133892001** Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**27200**	ug/L	1000	396	1000		06/21/16 18:45	71-43-2	
Ethylbenzene	**9590**	ug/L	1000	393	1000		06/21/16 18:45	100-41-4	
Methyl-tert-butyl ether	**<485**	ug/L	1000	485	1000		06/21/16 18:45	1634-04-4	
Naphthalene	**3130**	ug/L	1000	424	1000		06/21/16 18:45	91-20-3	
Toluene	**81400**	ug/L	1000	388	1000		06/21/16 18:45	108-88-3	
1,2,4-Trimethylbenzene	**15400**	ug/L	1000	418	1000		06/21/16 18:45	95-63-6	
1,3,5-Trimethylbenzene	**5060**	ug/L	1000	416	1000		06/21/16 18:45	108-67-8	
Xylene (Total)	**53200**	ug/L	3000	1250	1000		06/21/16 18:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1000		06/21/16 18:45	98-08-8	

Sample: TRIP BLANK **Lab ID: 40133892002** Collected: 06/14/16 00:00 Received: 06/16/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/21/16 22:37	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/21/16 22:37	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/21/16 22:37	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/21/16 22:37	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/21/16 22:37	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/21/16 22:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/21/16 22:37	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/21/16 22:37	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/21/16 22:37	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40133892

QC Batch: GCV/16169
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40133892001, 40133892002

METHOD BLANK: 1351246 Matrix: Water
Associated Lab Samples: 40133892001, 40133892002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/21/16 11:02	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/21/16 11:02	
Benzene	ug/L	<0.40	1.0	06/21/16 11:02	
Ethylbenzene	ug/L	<0.39	1.0	06/21/16 11:02	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/21/16 11:02	
Naphthalene	ug/L	<0.42	1.0	06/21/16 11:02	
Toluene	ug/L	<0.39	1.0	06/21/16 11:02	
Xylene (Total)	ug/L	<1.2	3.0	06/21/16 11:02	
a,a,a-Trifluorotoluene (S)	%	101	80-120	06/21/16 11:02	

LABORATORY CONTROL SAMPLE & LCSD: 1351247 1351248

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.2	20.9	106	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	21.2	20.8	106	104	80-120	2	20	
Benzene	ug/L	20	21.1	20.6	105	103	80-120	2	20	
Ethylbenzene	ug/L	20	21.2	20.7	106	104	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	21.5	21.1	107	106	80-120	2	20	
Naphthalene	ug/L	20	19.9	20.0	100	100	80-120	1	20	
Toluene	ug/L	20	20.8	20.4	104	102	80-120	2	20	
Xylene (Total)	ug/L	60	62.7	61.5	104	103	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1352928 1352929

Parameter	Units	40133906012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	17.8	18.4	89	92	48-177	3	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.0	20.6	100	103	73-145	3	20	
Benzene	ug/L	22.5	20	20	44.1	44.0	108	108	74-139	0	20	
Ethylbenzene	ug/L	<0.39	20	20	23.1	23.4	116	117	74-140	1	20	
Methyl-tert-butyl ether	ug/L	7.1	20	20	29.2	28.6	110	108	80-120	2	20	
Naphthalene	ug/L	<0.42	20	20	19.8	20.0	99	100	73-133	1	20	
Toluene	ug/L	<0.39	20	20	23.3	23.6	117	118	80-128	1	20	
Xylene (Total)	ug/L	<1.2	60	60	65.1	66.1	109	110	69-143	2	20	
a,a,a-Trifluorotoluene (S)	%						101	100	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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OLSON GOODMAN
Pace Project No.: 40133892

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40133892

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40133892001	**MW-1**	WI MOD GRO	GCV/16169		
40133892002	**TRIP BLANK**	WI MOD GRO	GCV/16169		

(Please Print Clearly)

Company Name:	Meridian Env & Hz
Branch/Location:	
Project Contact:	Ken Shinko
Phone:	715-832-6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shinko
Sampled By (Sign):	
PO #:	Regulatory Program:

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

Page 1 of

40133892

CHAIN OF CUSTODY

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

Quote #:	
Mail To Contact:	Ken Shinko
Mail To Company:	Meridian Env & Hz
Mail To Address:	2711 N. Flora Rd Fall Creek WI 54742
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	6/14		GW			X	3-40ml VB		
002	trip blank ①							2-40ml VB		
	① added to COC by lab per samples received BH 6/16/16									

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time: 6/15/16 9a	Received By: Durham 6/15/16 9a
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Durham	Date/Time: 6/16/16 0730	Received By: pace 6/16/16 0730
Email #1:	Relinquished By:	Date/Time:	Received By: Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By: Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By: Date/Time:
Fax:			

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

PACE Project No. 40133892
Receipt Temp = 4.5 °C
Sample Receipt pH ~~OK / Adjusted~~
Cooler Custody Seal Present / ~~Not Present~~
Intact / Not Intact

Version 6.0 08/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical™

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

Project #: **WO# : 40133892**

40133892

Client Name: Meridian

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Dunham

Tracking #: 118 0603

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

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

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

Thermometer Used SR-53 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 4 /Corr: 4.5 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Person examining contents:
Date: 6/16/16
Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: BH 6/16/16	☑Yes ☑No ☐N/A	2. no collect time BH 6/16/16
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. no date on samples BH 6/16/16
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14. 2 vials BH 6/16/16
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 357		

Client Notification/ Resolution:

Person Contacted: Date/Time:

If checked, see attached form for additional comments ☐

Comments/ Resolution: Produce Samples Placed in free product due to oil BH 6/16/16 in Many BH 6/16/16

Project Manager Review: Date: 6-16-16

APPENDIX D

PRIVATE WELL LOGS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 5-85

MAR 2 1987

1. COUNTY: Taylor

CHECK (✓) ONE: ☐ Town ☒ Village ☐ City

Name: Stetsonville

2. LOCATION: ¼ Section or Gov't. Lot: NW | Section: 19 | Township: 30N | Range: 2E

OR – Grid or Street No. | Street or Road Name: E Mink Ave.

AND – If available subdivision name, lot & block No.: Parcel 1 of Pt. outlot 11,12,13 Erickson & Evenson Add.

3. NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: David Nowak

ADDRESS: 422 E. Mink Ave.

POST OFFICE: Stetsonville, Wi. | ZIP CODE: 54480

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
25			55							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other
80			

Foundation Drain Connected to: Sewer | Clearwater Dr. | Sewage Sump | Clearwater Sump | Sewage Sump C.I. | Sewage Sump Other

Clearwater Sump | Septic Tank | Holding Tank

Sewage Absorption Unit: Seepage Pit | Seepage Bed | Seepage Trench

Manure Hopper or Retention or Pnuematic Tank

Privy | Pet Waste Pit | Pit: Nonconforming Existing: Well | Pump | Tank | Subsurface Pumproom Nonconforming Existing | Barn Gutter | Animal Barn Pen | Animal Yard | Silo With Pit | Glass Lined Storage Facility | Silo w/o Pit | Earthen Silage Storage Trench Or Pit | Earthen Manure Basin

Temporary Manure Stack or Platform | Watertight Liquid Manure Tank or Basin | Manure Pressure Pipe | Subsurface Gasoline or Oil Tank | Waste Pond or Land Disposal Unit (Specify Type) | Manure Storage Basin: Concrete Floor Only | Concrete Floor and Partial Concrete Walls | Other (Describe)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	52			
6	52	100			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	new blk stl A120 p.e.	Surface	52
	18.97 Valley Steel		
	1200 psi welded		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Drilling mud	Surface	52

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	52
Granite	52	100

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary w/drilling mud ☐ Reverse Rotary

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 3 GPM

Depth from surface to normal water level 4 Ft.

Depth of water level when pumping 85 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on Feb. 10 19 87

Well is terminated 16 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to State Lab. of Hygiene laboratory on Feb. 23 19 87

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: William D. Burnard
Registered Well Driller

Business Name and Complete Mailing Address: 1058 W. Second - Medford

WISCONSIN UNIQUE WELL NUMBER **SQ290**

Source: WELL CONSTRUCTION

State of Wi-Private Water Systems-DG/2
Department Of Natural Resources, Box 7921
Madison, WI 53707

Form 3300-77A
(Rev 02/02)bw

Depth 120 FT

Property Owner: WHITE-BECK, BETTY	Telephone Number: 715 -678 -2443	
Mailing Address: 109 E MINK AVE		
City: STETSONVILLE	State: WI	Zip Code: 54480
County of Well Location: 61 TAYLOR	Co Well Permit No: W	Well Completion Date: November 9, 2004
Well Constructor: JESSE W BRUNNER	License #: 4379	Facility ID (Public):
Address: N3573 HWY Q		Public Well Plan Approval#:
City: MEDFORD	State: WI	Zip Code: 54451
Hicap Permanent Well #:	Common Well #:	Date Of Approval:
		Specific Capacity: gpm/ft

1. Well Location

T=Town C=City V=Village: T of STETSONVILLE

Fire#:

Street Address or Road Name and Number:

Subdivision Name: | Lot#: 5 | Block #:

Gov't Lot 2 or 1/4 of 1/4 of Section 19 T 30 N;R 2 E

Latitude Deg. 45 Min. 4.1869

Longitude Deg 90 Min. 18.4205

2. Well Type 2 (See item 12 below) Lat/Long Method:

1=New 2=Replacement 3=Reconstruction

of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?: NON COMPLYING-INSIDE BUIL

3. Well Serves P # of homes and or (eg: barn, restaurant, church, school, industry, etc.)

M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

High Capacity: Well? N Property? N

1 1=Drilled 2=Driven Point 3=Jetted 4=Other

4. Is the well located upslope or sideslope and not downslope from any contamination sources, including those on neighboring properties? Y

Well located in floodplain? N

Distance in feet from well to nearest: (including proposed)

1. Landfill
20 2. Building Overhang
3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain 1=Cast Iron or Plastic 2=Other
35 14. Building Sewer 1 1=Gravity 2=Pressure
1 1=Cast Iron or Plastic 2=Other
90 15. Collector Sewer: ___ units ___ in . diam.
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe 1=Gravity 2=Pressure 1=Cast iron or Plastic 2=Other
23. Other manure Storage
24. Ditch
25. Other NR 812 Waste Source

5. Drillhole Dimensions and Construction Method

Dia.(in.)	From (ft)	To (ft)
10.0	surface	20
6.0	20	120

Upper Enlarged Drillhole / Lower Open Bedrock

-- 1. Rotary - Mud Circulation
X -- 2. Rotary - Air X
-- 3. Rotary - Air and Foam
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ n. dia
-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?

Other

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__I_	TOPSOIL	0	1
T_C_	BROWN CLAY	1	3
K_C_	BLACK CLAY	3	8
G_C_	GRAY CLAY	8	28
G_SU	MUDDY GRAN SAND	28	32
R_C_	REDDISH CLAY	32	52
GDQ_	DECOMPOSED GRAY GRANITE	52	65
GHQ_	FIRM GRAY GRANITE	65	71
GHQ_	HARD GRAY GRANITE	71	120

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6.0	NEW BLK STEEL T&C TTC A53B 19.45#/FT	surface	67

Dia.(in.)	Screen type, material & slot size	From	To

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
DRILL CUTTINGS	surface	20.0	

9. Static Water Level
5.0 feet B ground surface (A=Above B=Below)

10. Pump Test
Pumping level 115.0 ft. below surface
Pumping at 6.0 GP M 2.0 Hrs

11. Well Is: 26 in. A Grade (A=Above B=Below)
Developed? Y
Disinfected? Y
Capped? Y

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? N
If no, explain: UP TO OWNER

13. Initials of Well Constructor or Supervisory Driller: JWB Date Signed: 11/9/04

Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 952

316 S. Hwy 13

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 5-85

1. COUNTY: Taylor
CHECK (✓) ONE: ☐ Town ☑ Village ☐ City
Name: Stetsonville

2. LOCATION: ¼ Section or Gov't. Lot: SW SW; Section: 16; Township Range: 30N 2E
OR – Grid or Street No.: ; Street or Road Name:
AND – If available subdivision name, lot & block No.: Lot 3 & 4 ; Turner addition

3. NAME ☐ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Lo Mnot
ADDRESS: 427 W CTH A
POST OFFICE: Stetsonville, WI ZIP CODE: 54480

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
20			90							

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewage Sump / Clearwater Dr. / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit / Seepage Bed / Seepage Trench	Manure Hopper or Retention or Pneumatic Tank
120											

Privy	Pet Waste Pit	Pit: Nonconforming Existing / Well / Pump / Tank	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pan	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo W/O Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Units (Specify Type)	Manure Storage Basin: Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)
			100			

5. Well is intended to supply water for: Service station

6. DRILLHOLE

Dia (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
9	Surface	57			
6	57	95			

7. CASING, LINER, CURBING AND SCREEN
Material, Weight, Specification

Dia. (in.)	Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	new blk stl A120 p.e.	Surface	57
	18.97 Valley Steel		
	1200 psi weldxi		

8. GROUT OR OTHER SEALING MATERIAL

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drilling mud	Surface	57

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Clay	Surface	57
Granite	57	95

10. TYPE OF DRILLING MACHINE USED
☐ Cable Tool ☒ Rotary-hammer w/drilling mud & air ☐ Jetting with ☐ Air ☐ Water
☐ Rotary-air w/drilling mud ☐ Rotary-hammer & air
☐ Rotary-w/drilling mud ☐ Reverse Rotary

11 MISCELLANEOUS DATA
Yield Test: 3 Hrs. at 5 GPM
Depth from surface to normal water level 6 Ft.
Depth of water level when pumping 20 Ft. Stabilized ☐ Yes ☐ No

Well construction completed on May 21 19 06
Well is terminated 16 inches ☐ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to State Lab. of Hygiene laboratory on June 16 1906

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side. safe # 92985

Signature: Registered Well Driller

Business Name and Complete Mailing Address