Meridian Environmental Consulting, LLC

August 30, 2019

Matt Vitale
Wisconsin Department of Natural Resources
1300 W Clairemont
Eau Claire, Wisconsin 54701

Subject: **Progress Report**
Grace's Store (Former)
33768 State Hwy. 21
Camp Douglas, Wisconsin
DNR BRRTS No. 03-42-204862
PECFA No. 54618-8018-68
Meridian No. 05F756

Dear Matt:

This letter provides the results of recent work completed at the former Grace's Store site.

This work included:

- Geoprobe Soil Borings GP-1 thru GP-9 (June 26, 2019)
- Ground Water Sampling (June 26, 2019)
- Potable Well Reconnaissance
- Preparation of this Progress Report

Based on the results of this work and previous data, there is minor residual soil contamination in the former pump island/tank basin area (GP-3). The concentrations are minor but the Soil to GW RCL for benzene is exceeded in the soil sample from 10 ft below grade. This may reflect ground water contamination at this location.

The monitoring well and private well water samples were all clean.

Although this data is encouraging, we recommend the underlying sand aquifer be sampled to confirm it is not impacted. This can be accomplished with several temporary wells (installed with a Geoprobe). The monitoring and private wells could be sampled at that time to confirm the recent results.

If the underlying aquifer is found to not be impacted, this site should be evaluated for Closure.

A Change Order/Work Plan for these recommendations can be submitted upon request.

BACKGROUND INFORMATION

Background information was obtained from the report *Site Investigation/Closure Assessment Report* by Envirogen dated April 2003. The reader is referred to this report and the project file for detailed information regarding the site and previous environmental work. A summary of the site work is provided below.

The site is a former country store located on Highway 21 in the unincorporated village of Shennington (mailing address is Camp Douglas), Wisconsin (see Figures 1 and 2). The building is now used as a residence.

The area is flat with surface water drainage generally to the south. A small waterway (Beaver Creek) flows south about 500 feet east of the site.

According to file reports, the site began selling petroleum in the 1960's. The petroleum system (tanks, one pump island, associated piping) and a fuel oil tank were removed in September 1999. The results of the Tank System Site Assessment (TSSA) sampling from beneath the tanks, piping, and pump island are summarized in Table 1 (refer to Figure 3 for tank and sample locations). These samples indicated petroleum impacts beneath the fuel oil tank.

A Site Investigation was initiated in March 2000 by Envirogen. Six monitoring wells (MW-1 thru MW-6) and two soil borings (TB-1, TB-2) were installed in the locations shown in Figure 4.

The reader should note that the well referred to as MW-6 might be MW-5. *The well labelled MW-6 on Figure 4 may have been referred to as MW-5 when Meridian sampled in 2009. For now, the well located and sampled in June 2019 is referred to as MW-6 and shown on Figure 4 as MW-6; MW-5 is assumed to be lost.*

The borings were installed to depths of 15 to 18 feet. The borings encountered silty clay with occasional sand layers ("seams"). Ground water was measured about 7 feet below grade.

Soil samples were collected from the soil borings and analyzed for PVOC, GRO, and DRO. Table 1 summarizes the soil sampling data. Impacted soil was documented in the former fuel oil tank area (UST Closure Sample S-5 and S-6) and beneath the former pump island (soil sample from boring MW-2). Minor impacts were also measured in the other borings.

Envirogen sampled the monitoring wells 8 times from April 2000 to September 2002; this data is summarized in Table 2. In August 2002, Envirogen installed temporary well TMW-1 and collected a water sample in September 2002; this sample was clean.

The ground water samples indicated the petroleum system did impact the ground water in the former tank (MW-1) and pump island area (MW-2) as well as the former fuel oil tank area. NR140 Enforcement Standard Exceedances for benzene were measured in MW-1 and MW-2.

Envirogen prepared a report titled *Site Investigation/Closure Assessment Report* dated April 2003. This report summarized the Tank System Site Assessment (TSSA) data as well as the site investigation work. Based on the sampling data completed at the site, Envirogen recommended this site be closed.

The project stalled for several years due to financial reasons and declining health of the former owner. The property was purchased in 2008 by the current owner. Prior to the purchase, the

DNR provided a letter dated December 11, 2007 documenting additional information required for Closure. This included:

- Sample the ground water in the on-site potable well for volatile organic compounds
- Provide a construction report for the on-site potable well
- Provide a map of the locations of all potable wells that are found directly adjacent to the Grace's Store property
- Provide well construction reports for all of the potable wells that are found to be directly adjacent to the Grace's Store property
- Submit GIS Registry fees for Soil and Ground Water

Meridian Environmental Consulting, LLC (Meridian) became the PECFA Agent for the new owner in 2009. A Change Order for the above tasks dated March 20, 2009 was approved by PECFA.

Meridian visited the site July 18, 2009 and sampled MW-1, -2, -3, -5, and the Store well. The monitoring wells MW-4 and MW-6 (or MW-5?) could not be located. The analytical data is summarized in Table 2.

Meridian submitted the ground water sampling data in a report *Project Status Report and Change Order* dated December 18, 2012. Meridian recommended the site be submitted for Closure with GIS Registry for Soil and Ground Water.

The project stalled again for several years until 2018. Due to the amount of time since the previous sampling events, Meridian recommended current soil and ground water data be collected to complete the GIS Registry maps and tables. Meridian also recommended a current potable well reconnaissance be completed.

This work was completed in June 2019 and is described below.

RECENT WORK

Soil Borings

Soil borings GP-1 thru GP-9 were installed June 26, 2019 in the locations shown in Figure 4. The soil boring logs are provided in Appendix A.

Soil samples were collected throughout the boring depth. Selected samples from discrete intervals were collected and analyzed for PVOC+Naphthalene. The analytical report is provided in Appendix B and summarized in Table 1.

Ground Water Sampling

Ground water samples were collected from the monitoring wells and onsite well on June 26, 2019. A followup sample was collected from the adjacent property (33794 Hwy. 21) on August 1, 2019.

The analytical reports are provided in Appendix B and summarized in Table 2. The depth to water and natural attenuation field parameters (e.g., dissolved oxygen, temperature, pH, conductivity, ORP) were measured in the monitoring wells (see Tables 3 and 4, respectively).

DATA EVALUATION

Site Hydrogeology

Well logs from the area were obtained from the Wisconsin Geological and Natural History Survey (Appendix C). In addition, the Geology of Juneau County, Wisconsin (Lee Clayton, 1989, Information Circular 66, Wisconsin Geological and Natural History Survey) was reviewed. These resources indicate the site is underlain by 20 – 30 feet of wind-blown sediments (silty clay) overlying well-sorted sand (offshore sediments from Glacial Lake Wisconsin). The sand unit thickness is estimated at about 25 - 30 feet below the site. Beneath the sand unit is the Mt. Simon Sandstone (Cambrian). The Mt. Simon Sandstone is typically over 200 feet thick and rests on Precambrian basement rocks.

Figure 5 is a cross-section illustrating the site geology. The onsite borings are consistent with the regional geology and area well logs (Appendix C). That is, fine-grained soils (silty clay) were encountered to depths of 20 feet. The well-sorted sand unit described in the literature appears to be at a depth of about 25 feet based on the well logs. The onsite well obtains water from this regional sand aquifer.

A sand "seam" (thin layer) at about 15 feet depth was described on Envirogen's boring logs. This unit was several inches thick and appears to be consistent in each of the borings. The sand seam was over a foot thick in MW-6.

Potable Wells

Based on the nearby well logs (Appendix C) and conversations with the site owner, wells in the area are typically sand points to about 30 feet depth. Figure 6 illustrates residences in the vicinity of the site. These residences all rely on private wells for water supply.

The onsite well is a sand point according to the current owner. It was sampled several times (Table 2); no petroleum parameters were measured in the well.

The water supply at the adjacent (east) property (33794 Hwy 21) was sampled August 1, 2019. No petroleum parameters were measured in the well.

The well log (SF966) for the property southeast of the property (33855 Expedition Ave) is drilled to 41 ft. The log encountered clay to about 34 ft below grade where "yellow sand" was encountered.

Other wells in the area include SF949 at St. Peters Church (sand at 19 ft) and NZ223 south of the property at 10085 (75?) Funnel Dr (sand at 17 ft).

Ground Water Flow

Envirogen interpreted ground water flow toward the southeast. Envirogen estimated the hydraulic conductivity of the silty soils as 1.4 ft/day.

Meridian re-surveyed the well elevations on June 26, 2019. The well casings in all of the wells were frost-heaved and had to be cut down. Table 3 summarizes the ground water elevations measured June 26, 2019.

Figure 7 illustrates the ground water table contours based on the June 26, 2019 measurements. The recent data suggest an onsite ground water mound around MW-2 and MW-3. It is noteworthy the soils were saturated due to recent heavy rain in addition to a wet spring. Thus the water levels measured June 26, 2019 may represent local saturation and not the normal hydraulic head in that well. Plus the wells were frost-heaved and the well plugs may have been leaking. Additional water level measurements would be helpful to determine ground water flow.

Piezometers were not installed to measure the vertical hydraulic gradient. It is common for a site with similar geology (i.e., fine-grained soils overlying coarse soils) to have a downward vertical component of flow. This can lead to downward transport of impacted ground water which can then impact nearby water supply wells. Temporary wells could be installed with a Geoprobe to sample the underlying sand aquifer.

Extent of Impacted Soil

There are three areas that were investigated for soil contamination:

Former tank basin

Meridian installed GP-1, -2, -9 in and around the former tank basin. In addition, Envirogen collected a soil sample from MW-1 (13.5 ft) when it was installed in March 2000. These samples did not contain petroleum parameters.

The ground water samples from MW-1 were impacted with benzene above NR140 ES in the past. And the June 26, 2019 sampling of MW-1 encountered black-stained water which may be due to bacterial action associated with petroleum impacts.

Clearly there were petroleum impacts in the former tank basin based on the ground water samples. However, the recent soil and ground water data indicates this area is not impacted above standards.

Piping and Pump Island

Meridian installed soil boring GP-3 between the tank basin and the pump island. Soil samples collected from this boring did contain petroleum impacts. And soil samples collected by Envirogen from MW-2 at 5 ft contained petroleum impacts. However, the samples from GP-4 installed adjacent to MW-2 did not contain petroleum impacts. Nor did GP-5 and GP-6.

Based on the data from GP-3, -4, -5, -6 and from Envirogen's sample from MW-2, there appears to be impacted soil associated with the former piping and pump island. However, the impacts do not appear to be widespread.

The benzene concentrations in the sample from GP-3 at a depth of 8 - 10 ft are above the *Soil to GW* RCL for benzene. This sample was saturated and the concentration may reflect ground water rather than soil.

Fuel Oil tank

Impacted soil was measured in soil samples from MW-3 and TB-1. However, the concentrations appear to be below soil standards and further work is not recommended in this area. This is supported by the soil samples collected from GP-7 and GP-8. Additionally, the water samples from MW-3 have been consistently below NR140 ES and PALs further supporting the No Further Action recommendation at the former fuel oil tank area.

In summary, the horizontal and vertical extent of impacted unsaturated soil at this site is defined. However, saturated soil samples collected from below the water table in GP-3 suggest petroleum impacts at depth (8 – 10 ft depth). This vertical extent and potential impact to the underlying sand aquifer should be investigated.

Extent of Impacted Ground Water

Historically, NR140 ES and PALs (for benzene) were exceeded in MW-1 and MW-2 which are located in the former tank basin and pump island area. However, the concentrations appear to be decreasing and no NR140 ES or PALs were measured in the June 26, 2019 samples. This should be confirmed with an additional sampling event.

The primary concern at this site is the potential impact to the underlying sand aquifer. This could be investigated with a piezometer located next to MW-6. Conversely, temporary well(s) could be installed along the southern, eastern, and western property boundary. The temporary well(s) should be screened in the underlying sand aquifer (about 25 ft below grade). A ground water sample should be collected from the temporary well(s) and the temporary well(s) abandoned immediately. The water sample should be analyzed for PVOC+Naphthalene.

The onsite water supply and the water supply at the adjacent property (33794) should be sampled to confirm the recent results.

A skid-steer may be needed to locate MW-5.

CONCLUSIONS

The site is underlain by at least 15 - 20 feet of silty clay. A regional sand aquifer typically found about 25 feet below grade provides water supply for area residents (using sand points). Ground water flow is expected to be in a southerly direction.

The Grace's Store site had its petroleum system removed in 1999.

Petroleum impacts to soil appear to be limited to the piping and pump island area. There were no Direct Contact impacts measured. We recommend No Further Action with respect to investigating or remediating soil contamination.

Ground water samples collected from the monitoring wells (in 2019) indicate the ground water quality in the monitoring wells has improved.

The primary concern is whether the underlying sand aquifer has been impacted. Although the onsite well and adjacent property (33794) are clean based on recent samples, samples should be collected from depth along the south, east, and west property boundaries to confirm the ground water quality of the sand aquifer. This can be accomplished with temporary well(s) installed 20 – 25 feet below grade into the underlying sand aquifer. A ground water sample should be collected from each well and analyzed for PVOC+Naphthalene. The temporary well(s) should be immediately abandoned.

Ground water samples should be collected from the monitoring wells and private wells (site, 33794) to confirm the recent sampling results.

A Change Order/Work Plan will be submitted in separate correspondence.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

C: Gary Gilbert – Project Engineer

TABLES

Table 1: Soil Analytical Results

Grace's Store (former)
Shennington, WI
Meridian No. 05F756

Sample	Depth	Saturated/ Unsaturated	PID	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	m&p-Xylene	o-Xylene	Total Xylenes	MTBE	Naphthalene	Toluene	GRO	DRO
Units	ft		iu	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
NTEDC				219	182	260	1.6	8.02	388	124	260	63.8	5.52	818		
Soil to GW RCL						3.96	0.0051	1.57			3.96	0.027	0.6582	1.0772		
TSSA Sampling (September 1999)																
S-1	8.5		-	-	-	-	-	-	-	-	-	-	-	-	<2.9	NA
S-2	8.5		-	-	-	-	-	-	-	-	-	-	-	-	<3.5	NA
S-3	7		-	-	-	-	-	-	-	-	-	-	-	-	<3.5	NA
S-4	7		-	-	-	-	-	-	-	-	-	-	-	-	<3.4	NA
S-5	6		-	-	-	-	-	-	-	-	-	-	-	-	NA	**8400**
S-6	6		-	-	-	-	-	-	-	-	-	-	-	-	NA	**2400**
S-7	3		-	-	-	-	-	-	-	-	-	-	-	-	<2.6	NA
S-8	3		-	-	-	-	-	-	-	-	-	-	-	-	<2.8	NA
S-9	3		-	-	-	-	-	-	-	-	-	-	-	-	<2.9	NA
Site Investigation Soil Samples																
March 8 & 9, 2000 (Envirogen Soil Samples)																
MW-1	13.5		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.0066	<.025	<6.2	<6.2
MW-2	5		-	-	-	**28.5**	**1.03**	**1.54**	-	-	**11**	<.25	**0.966**	**8**	**268**	**71**
	13.5		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.0066	<.025	<6.6	<6.6
MW-3	5		-	-	-	**2.9**	<.025	<.025	-	-	<.025	<.025	**3.53**	<.025	**199**	**640**
	11		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.0066	<.025	**31**	**16**
	17		-	-	-	<.05	<.025	**0.032**	-	-	**0.054**	<.025	<.0058	<.025	<5.8	<5.8
MW-4	6		-	-	-	<.05	<.025	**0.069**	-	-	**0.272**	<.025	<.0068	<.025	<6.8	<6.8
	12		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.007	<.025	<6.9	<6.9
MW-5	6.5		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.007	<.025	<6.9	<6.9
	16		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.0081	<.025	<8.1	<8.1
MW-6	6		-	-	-	<.05	<.025	**0.034**	-	-	**0.104**	<.025	<.007	<.025	<6.9	<6.9
	12		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.007	<.025	<6.7	<6.7
TB-1	6		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.007	<.025	<6.9	<6.9
	13.5		-	-	-	**0.099**	<.025	**0.035**	-	-	**0.085**	<.025	<.0068	<.025	<6.7	<6.7
TB-2	6		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	<.007	<.025	<6.9	<6.9
	13.5		-	-	-	<.05	<.025	<.025	-	-	<.025	<.025	**0.463**	<.025	<6.8	<6.8
June 26, 2019 Geoprobe Borings																
1: 3-4	3-4	wet	0.2	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
1:8-9	8-9	moist	0.8	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
2: 3-4	3-4	wet	1	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
2: 8 ft	8	moist	9.8	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
3: 3-4	3-4	wet	0.6	**.0403J**	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
3: 5-6	5-6	moist	33	**1.33**	**0.904**	**2.234**	<.05	**.0987J**	**0.37**	<.05	**0.37**	<.05	<.0801	<.5	-	-
3: 8-10	8-10	moist	6.8	**0.664**	**0.199**	**0.863**	**0.306**	**1.24**	**1.22**	**0.132**	**1.352**	<.025	**.176J**	**0.271**	-	-
4: 3-4	3-4	wet	1.2	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
4: 7-8	7-8	moist	2.3	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
5: 3-4	3-4	wet	0.4	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
5: 7-8	7-8	moist	0.4	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
6: 3-4	3-4	wet	0.4	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
6: 7-8	7-8	moist	0.5	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
7: 3-4	3-4	wet	0.3	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
7: 7-8	7-8	moist	0.3	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
8: 3-4	3-4	wet	0.9	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
8: 7-8	7-8	moist	11.1	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
9: 3-4	3-4	wet	1.1	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-
9: 7-8	7-8	moist	0.8	<.025	<.025	<.05	<.025	<.025	<.05	<.025	<.075	<.025	<.04	<.025	-	-

Table 2: Ground Water Analytical Data
Grace's Store (former)
Shennington, Wisconsin
Meridian No. 05F756

5 Concentration exceeds NR140 Enforcement Standard
Data from 2000 - 2002 collected by Envirogen
Data from 2009 & 2019 collected by Meridian

Well	1,2,4-TMB	1,3,5-TMB	Total TMBs	Benzene	Ethylbenzene	MTBE	Naphthalene	m&p-xylene	o-xylene	Xylenes	Toluene	1,2-DCA	GRO	DRO	Dissolved Lead	Water Level (ft)
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l				ft
NR140 Enforcement Standard (ES)			480	5	700	60	100			2000	800					
NR140 Preventive Action Limit (PAL)			96	0.5	140	12	10			400	160					
Store Well																
7/18/2009	<.4	<.44	<.44	<.31	<.5	<.3	<.8	<.62	<.77	<.77	<.37	-	-	-	-	-
3/14/2013	<.43	<.4	<.83	<.39	<.41	<.38	<.4	-	-	<1.3	<.42	-	-	-	-	-
6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
33794 (Tornga)																
8/1/2019	<.84	<.87	<1.71	<.26	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17					
MW-1																
4/19/2000	-	-	<2	**4.9**	<.5	<.5	-	-	-	<.5	<.5	<.5	**76**	**148**	<5	89.88
8/21/2000	-	-	<10	**93**	<5	**1.4**	-	-	-	**<5**	<5	-	**120**	-	-	90.19
10/27/2000	-	-	<10	**42**	<5	<.5	-	-	-	<5	<5	-	**72**	-	-	89.23
3/5/2001	-	-	<1	**20**	<.4	<.47	-	-	-	<1.4	**0.55**	-	<100	-	-	89.48
5/15/2001	-	-	**0.97**	**88**	**0.57**	**0.59**	-	-	-	**1.6**	**0.72**	-	**140**	-	-	92.6
8/16/2001	-	-	<.6	**82**	**0.6**	<.46	-	-	-	**0.78**	**0.48**	-	**120**	-	-	89.27
11/12/2001	-	-	<.6	**67**	**0.39**	<.46	-	-	-	<.69	<.41	-	**140**	-	-	89.57
9/26/2002	-	-	<1.9	**27**	<.92	<.43	-	-	-	<2.5	<.68	-	-	-	<1	90.81
7/18/2009	**0.74**	<.44	**0.74**	**7.33**	**4.21**	**1.77**	<.8	<.62	<.77	<.77	**1.28**	-	-	-	-	-
6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
MW-2																
4/19/2000	-	-	<2	**56**	<.5	**1.1**	-	-	-	**1.1**	**3.6**	<.5	**390**	**320**	<5	89.25
8/21/2000	-	-	<10	**60**	<5	**1**	-	-	-	**<5**	<5	-	**180**	-	-	90.23
10/27/2000	-	-	<10	**31**	<5	**1.9**	-	-	-	<5	<5	-	**130**	-	-	89.25
3/5/2001	-	-	<1	**20**	**0.42**	**1.1**	-	-	-	<1.4	**0.71**	-	<150	-	-	89.14
5/15/2001	-	-	<1	**42**	**0.6**	**1**	-	-	-	**1.3**	**0.94**	-	**180**	-	-	92.16
8/16/2001	-	-	**1.2**	**45**	**1.3**	<.46	-	-	-	**1.5**	**0.54**	-	**120**	-	-	89.07
11/12/2001	-	-	**0.61**	**22**	**<.22**	**0.73**	-	-	-	<.69	<.41	-	<100	-	-	89.87
9/26/2002	-	-	<1.9	**2.3**	<.82	<.43	-	-	-	<2.5	<.68	-	-	-	**1.7**	90.21
7/18/2009	<.4	<.44	<.44	**5.61**	<.5	<.3	<.8	<.62	<.77	<.77	<.37	-	-	-	-	-
6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
MW-3																
4/19/2000	-	-	**1.9**	<.5	<.5	<.5	-	-	-	<.5	<.5	<.5	**614**	**1200**	<5	89.39
8/21/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	**226**	-	-	90.06
10/27/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	**216**	-	-	89.2
3/5/2001	-	-	<1	<.39	<.4	<.47	-	-	-	<.69	**0.94**	-	**280**	-	-	89.13
5/15/2001	-	-	**0.41**	<.21	<.22	<.46	-	-	-	<1.4	**0.62**	-	**160**	-	-	92.44
8/16/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	<.69	**0.65**	-	<100	-	-	89.3
11/12/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	<.69	**0.63**	-	**250**	-	-	89.63
9/26/2002	-	-	<1.9	<.45	<.82	<.43	-	-	-	<2.5	<.68	-	-	-	<1	90.81
7/18/2009	<.4	<.44	<.44	<.31	<.5	<.3	<.8	<.62	<.77	<.77	<.37	-	-	-	-	-
6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
MW-4																
4/19/2000	-	-	<2	<.5	<.5	<.5	-	-	-	<.5	<.5	<.5	<50	**131**	<5	89.69
8/21/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	<50	-	-	89.84
10/27/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	<50	-	-	89.27
3/5/2001	-	-	<1	<.39	<.4	<.47	-	-	-	<1.4	<.37	-	<100	-	-	89.02
5/15/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.75**	<.41	-	<100	-	-	92
8/16/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	<.69	<.41	-	<100	-	-	88.77
11/12/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.8**	<.41	-	<100	-	-	89.45
9/26/2002	-	-	<1.9	<.45	<.82	<.43	-	-	-	<2.5	<.68	-	-	-	<1	90.07
7/18/2009	could not locate															
6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
MW-5																
4/19/2000	-	-	<2	<.5	<.5	<.5	-	-	-	<.5	<.5	<.5	<50	**120**	<5	89.28
8/21/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	<50	-	-	89.63
10/27/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	<50	-	-	89.05
3/5/2001	-	-	<1	<.39	<.4	<.47	-	-	-	<1.4	<.37	-	<100	-	-	89.04
5/15/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.75**	<.41	-	<100	-	-	92.17
8/16/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.8**	<.41	-	<100	-	-	88.8
11/12/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.8**	<.41	-	<100	-	-	89.23
9/26/2002	-	-	<1.9	<.45	<.82	<.43	-	-	-	<2.5	<.68	-	-	-	<1	90
*7/18/2009	<.4	<.44	<.44	<.31	<.5	<.3	<.8	<.62	<.77	-	<.37	-	-	-	-	-
*6/26/2019	***uncertain if MW-5 or MW-6 was located ?***															
MW-6																
4/19/2000	-	-	<2	<.5	<.5	<.5	-	-	-	<.5	<.5	<.5	**76**	**148**	<5	89.2
8/21/2000	-	-	<10	<.5	<5	<.5	-	-	-	**<5**	<5	-	**120**	-	-	89.63
10/27/2000	-	-	<10	<.5	<5	<.5	-	-	-	<5	<5	-	**72**	-	-	88.97
3/5/2001	-	-	<1	<.39	<.4	<.47	-	-	-	<1.4	**0.55**	-	<100	-	-	88.77
5/15/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**1.6**	**0.72**	-	**140**	-	-	92.17
8/16/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	**0.78**	**0.48**	-	**120**	-	-	88.6
11/12/2001	-	-	<.6	<.21	<.22	<.46	-	-	-	<.69	<.41	-	**140**	-	-	89.08
9/26/2002	-	-	<1.9	<.45	<.82	<.43	-	-	-	<2.5	<.68	-	-	-	<1	89.75
*7/18/2009	***uncertain if MW-5 or MW-6 was located ?***															
*6/26/2019	<.84	<.87	<1.71	<.25	<.22	<1.2	<1.2	<.47	<.26	<.73	<.17	-	-	-	-	-
TMW-1																
9/26/2002	-	-	<1.4	<.25	<.53	<.87	-	-	-	<1.8	<.84	<.55	-	-	-	-
6/26/2019	*Could not locate*															

* Well identified as MW-5 in 2009 may be same well identified as MW-6 in 2019.

Table 3: Ground Water Levels

Grace's Store (former)
Shennington, WI
Meridian No. 05F756

MW-1			MW-2			MW-3		
Surface Elevation		100.25	Surface Elevation		100.5	Surface Elevation		101
Top of Casing		100	Top of Casing		100.29	Top of Casing		100.74
Top of Screen		98	Top of Screen		93	Top of Screen		95
Bottom of Screen		83	Bottom of Screen		83	Bottom of Screen		85
Measurement Date	**DTW**	**GW Elev.**	**Measurement Date**	**DTW**	**GW Elev.**	**Measurement Date**	**DTW**	**GW Elev.**
6/26/2019	5.41	94.59	6/26/2019	5.31	94.98	6/26/2019	5.29	95.45

MW-4			MW-5*			MW-6*		
Surface Elevation		101	Surface Elevation			Surface Elevation		101.25
Top of Casing		100.7	Top of Casing			Top of Casing		101.06
Top of Screen		95.5	Top of Screen			Top of Screen		96
Bottom of Screen		85.5	Bottom of Screen			Bottom of Screen		86
Measurement Date	**DTW**	**GW Elev.**	**Measurement Date**	**DTW**	**GW Elev.**	**Measurement Date**	**DTW**	**GW Elev.**
6/26/2019	6.35	94.35	6/26/2019	Could not locate		6/26/2019	6.69	94.37

Ground Water Elevation determined by Meridian using June 26, 2019 survey and measurements. All wells were cut down due to frost-heaving. Envirogen's water levels listed in Ground Water Analytical Table. Elevations should be treated as separate data sets

* Uncertain if well sampled June 2019 is MW-5 or MW-6. Assumed MW-6.

Table 4: Natural Attenuation Field Measurements

Grace's Store (former)
Shennington, WI
Meridian No. 05F756

Well	Date	DO	pH	Temp	K	ORP
		mg/l		°C	uS	
MW-1	6/26/2019	4	7.83	13.4	738	-137
MW-2	6/26/2019	2	6.98	13.2	934	-143
MW-3	6/26/2019	4	7.13	12.8	1458	-127
MW-4	6/26/2019	4	7.24	14	1487	-163
MW-6*	6/26/2019	2	7.37	13.8	1743	-126

* Uncertain if well sampled June 2019 is MW-5 or MW-6. Assumed MW-6.

FIGURES

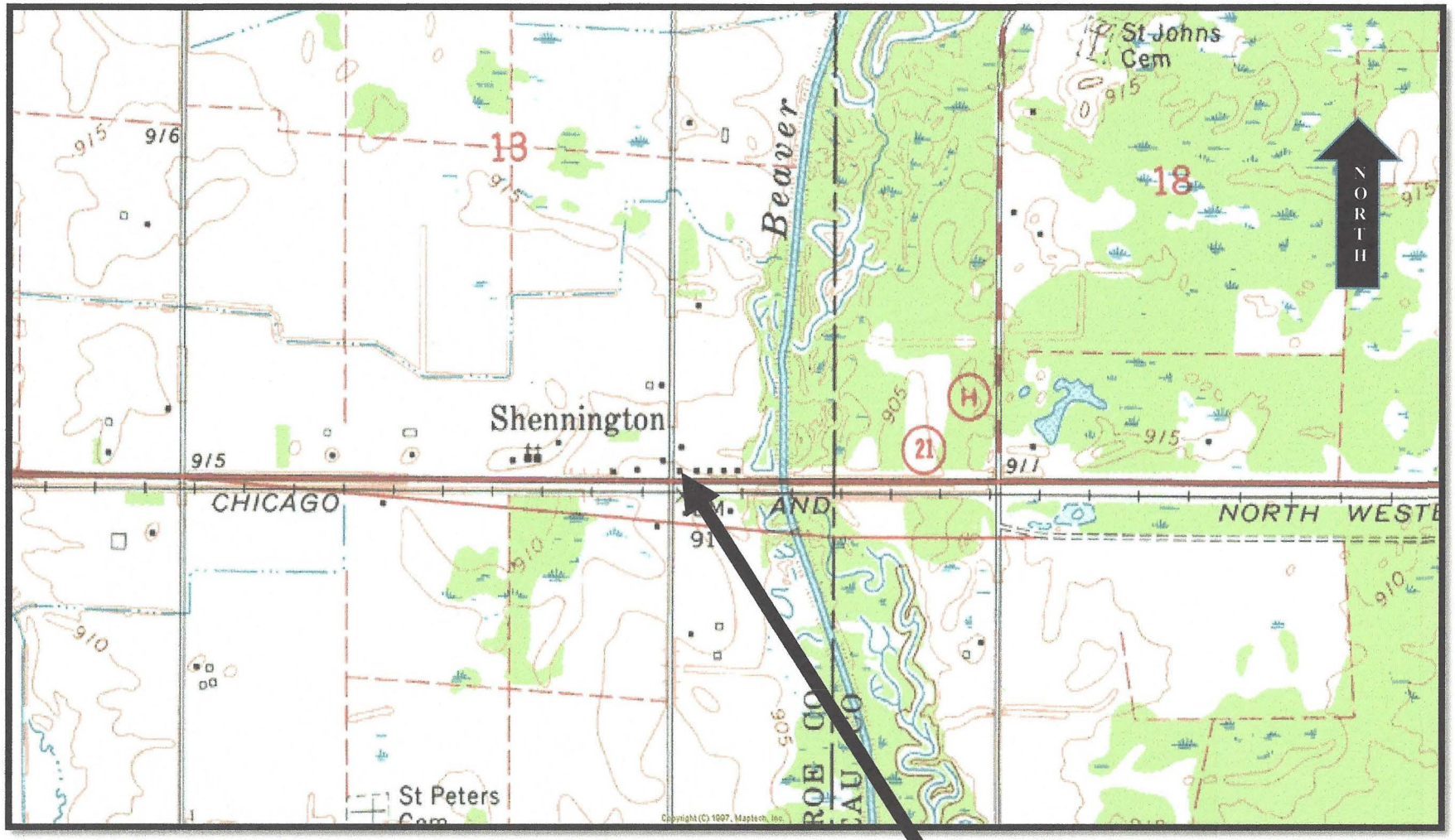


Figure 1: Site Location Map
Grace's Store/Shennington (Camp Douglas)

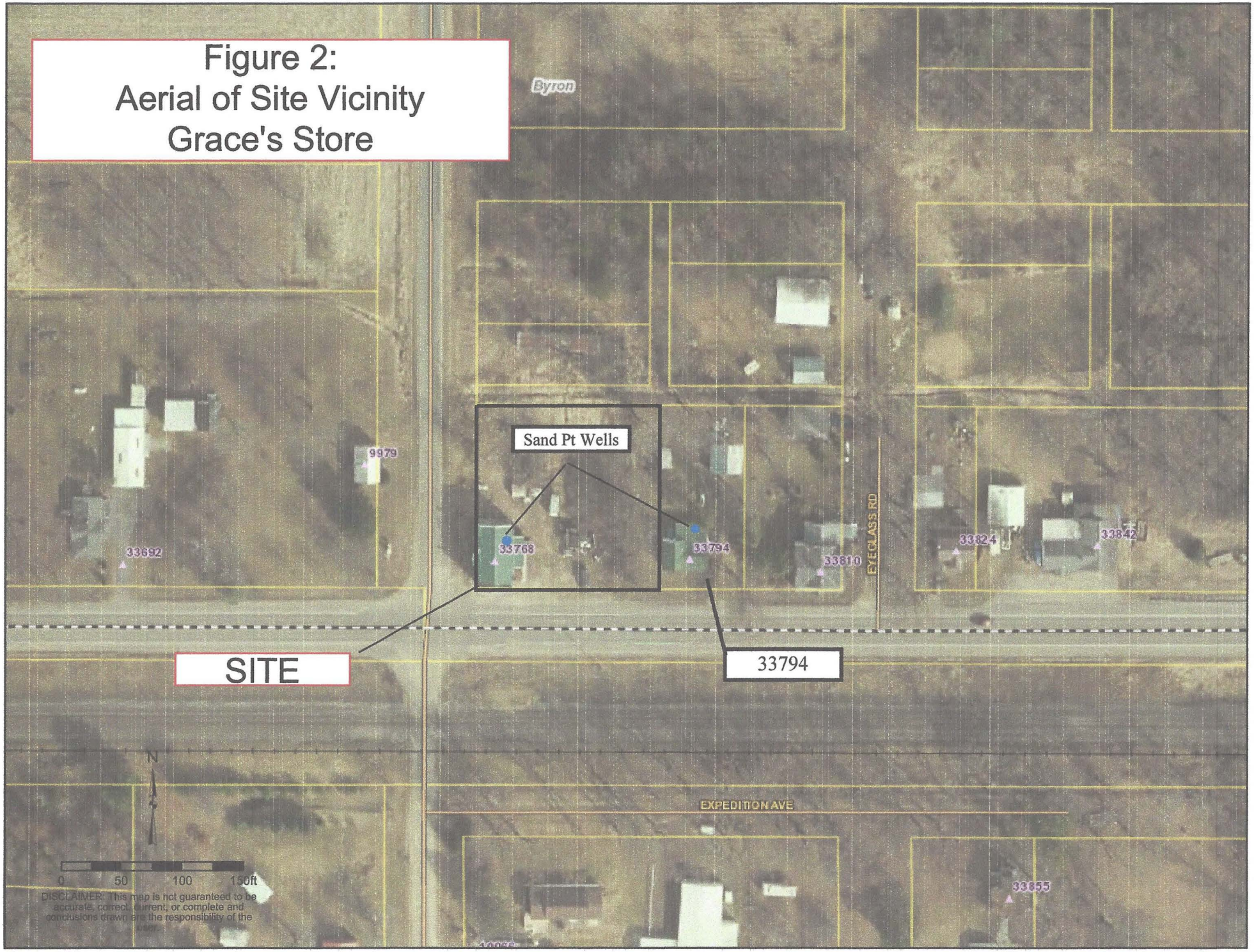
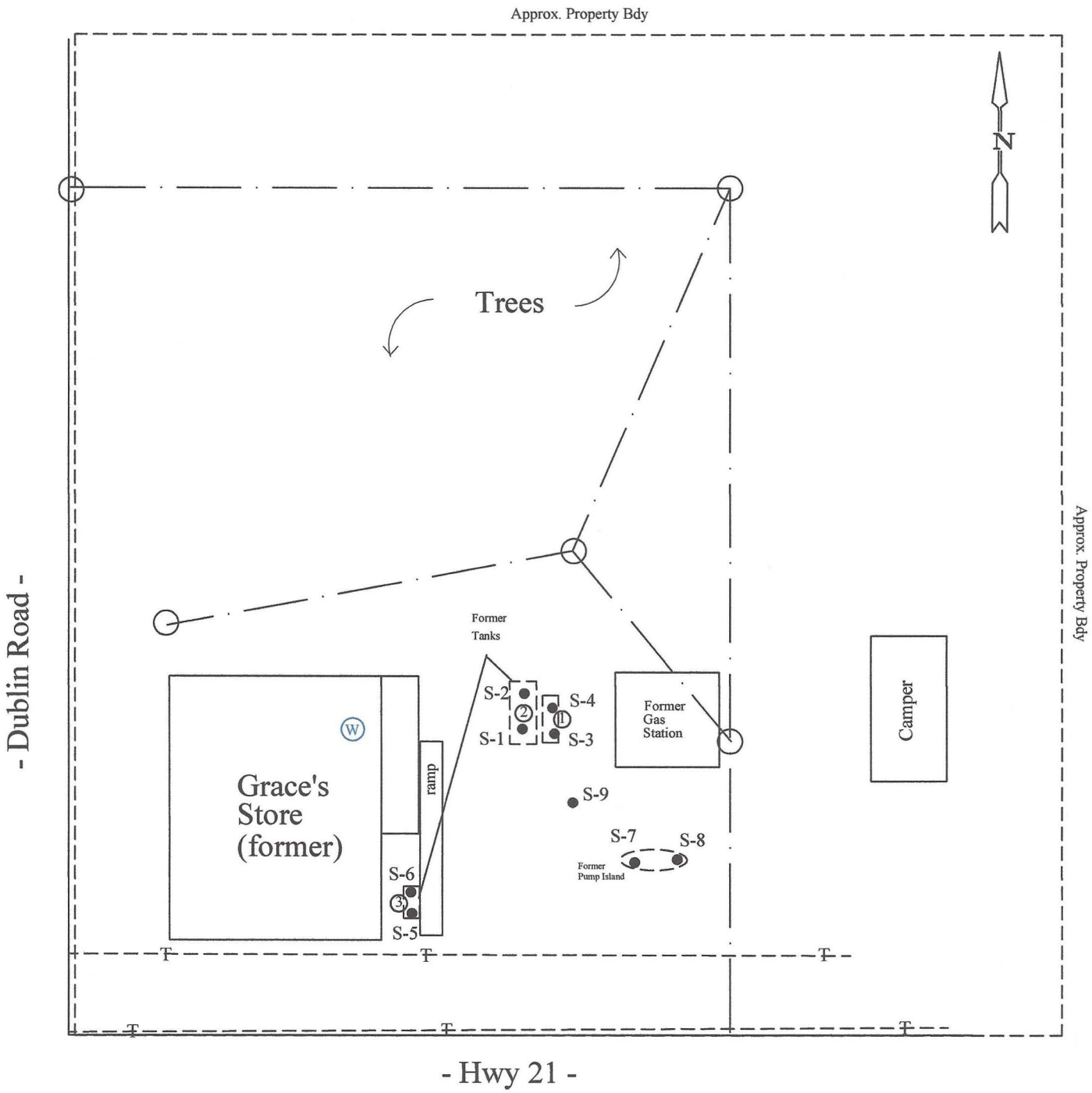


Figure 2:
Aerial of Site Vicinity
Grace's Store
Byron
Sand Pt Wells
9979
33692
33768
33794
33810
EYEGLASS RD
33824
33842
SITE
33794
N
0
50
100
150ft
EXPEDITION AVE
33855
DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.



Legend

Power Pole S-1 TSSA Sample

Overhead Utilities

Telephone lines (underground)

① Former 500 - gallon Unleaded Gasoline UST

② Former 1,000 - gallon Unleaded Gasoline UST

③ Former 250 - gallon Fuel Oil UST

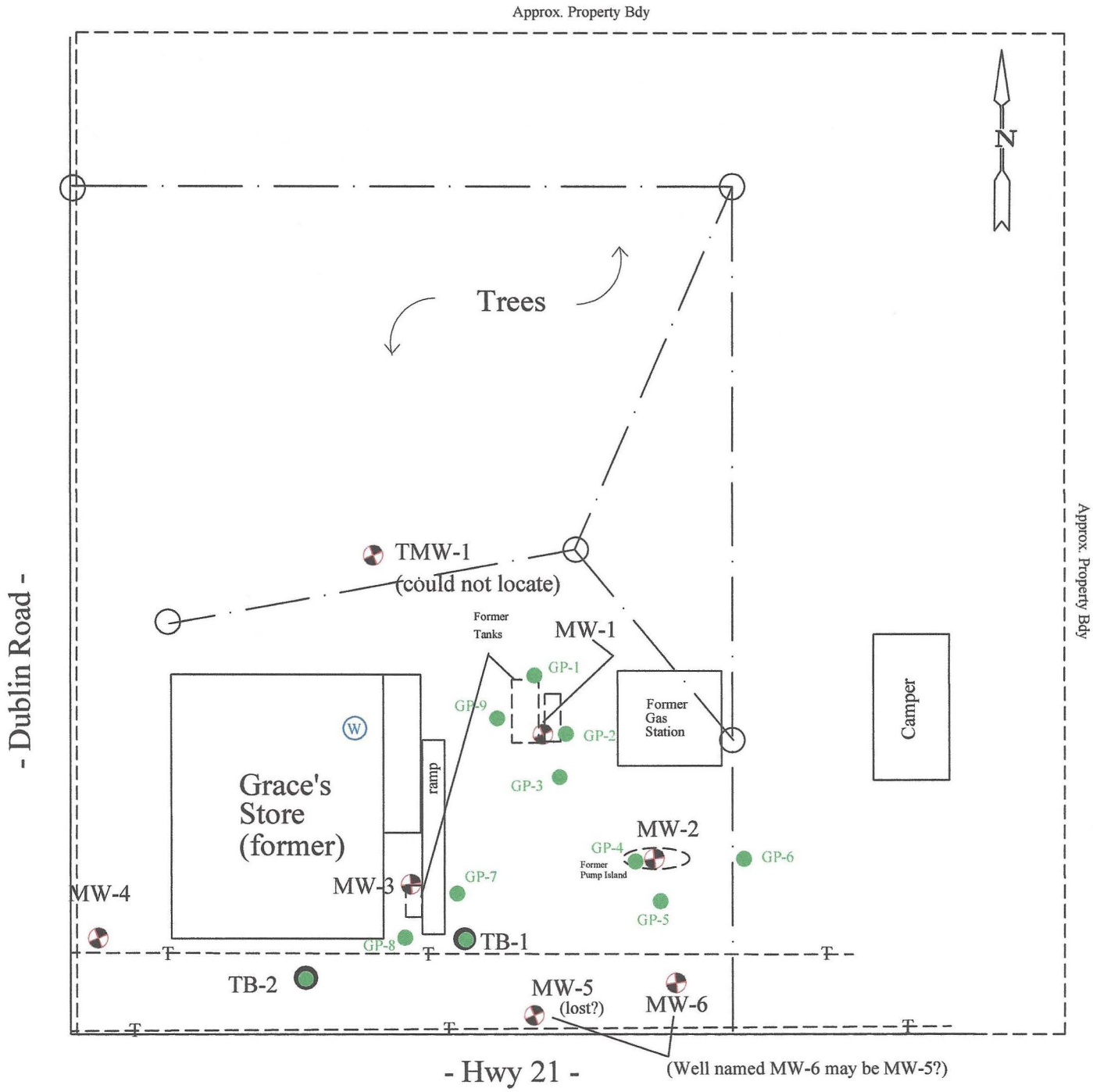
5 0 5 10 15 20 25

SCALE – FEET
(APPROXIMATE SCALE)

Figure 3
TSSA Sample Locations
Grace's Store
Shennington (Camp Douglas), WI

PROJECT NO.	PREPARED BY
05F756	KAS
DATE	REVIEWED BY
8/30/19	KAS

Meridian Environmental Consulting, LLC



Legend

- Monitor Well
- Soil Boring
- Private Well (sand pt)
- Power Pole
- Overhead Utilities
- Telephone lines (underground)

5 0 5 10 15 20 25
SCALE – FEET
(APPROXIMATE SCALE)

Figure 4
Site Diagram
Grace's Store
Shennington (Camp Douglas), WI

PROJECT NO.	PREPARED BY
05F756	KAS
DATE	REVIEWED BY
8/30/19	KAS

Meridian Environmental Consulting, LLC

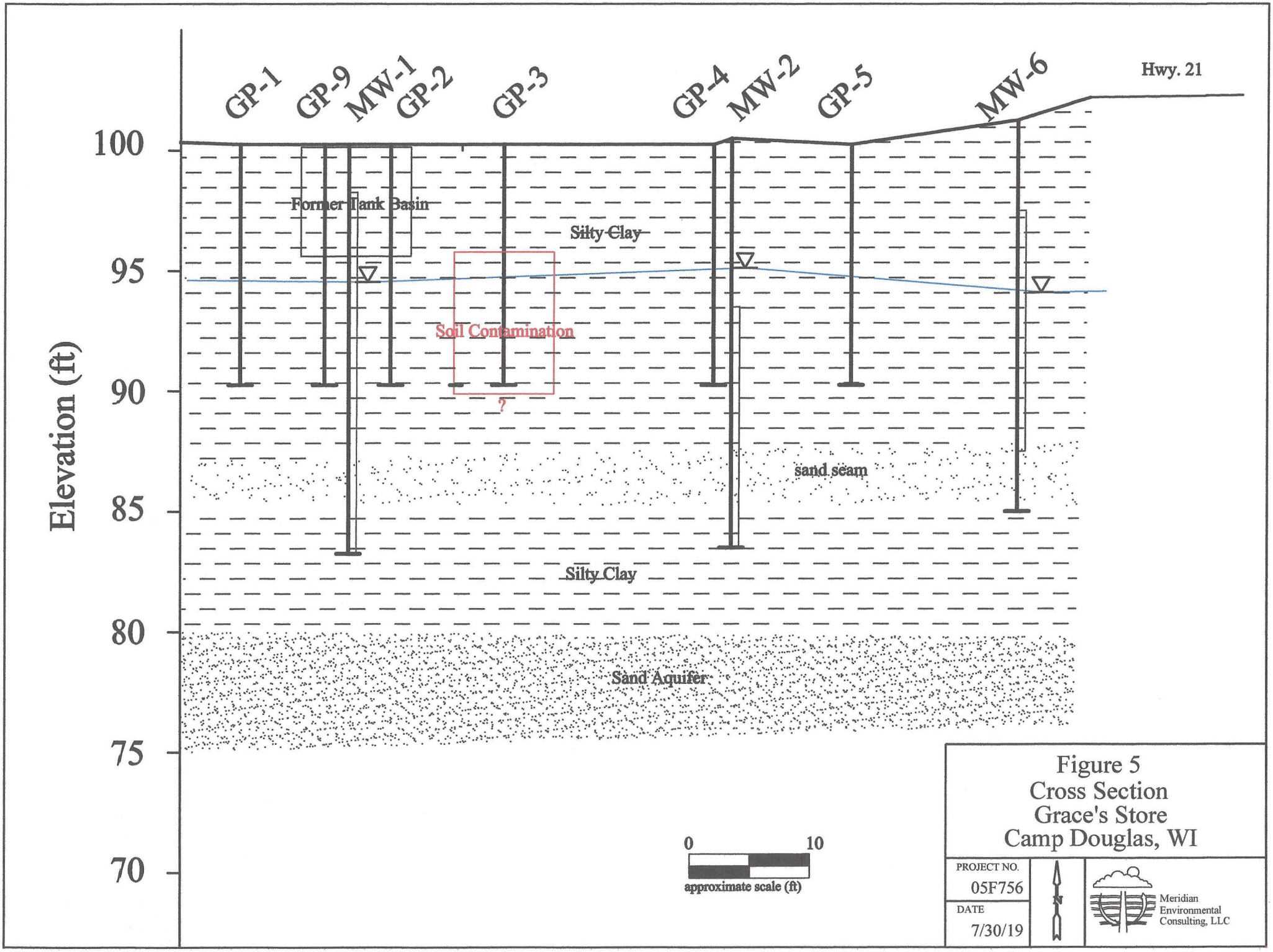


Figure 5
Cross Section
Grace's Store
Camp Douglas, WI

PROJECT NO.
05F756

DATE
7/30/19

Meridian Environmental Consulting, LLC

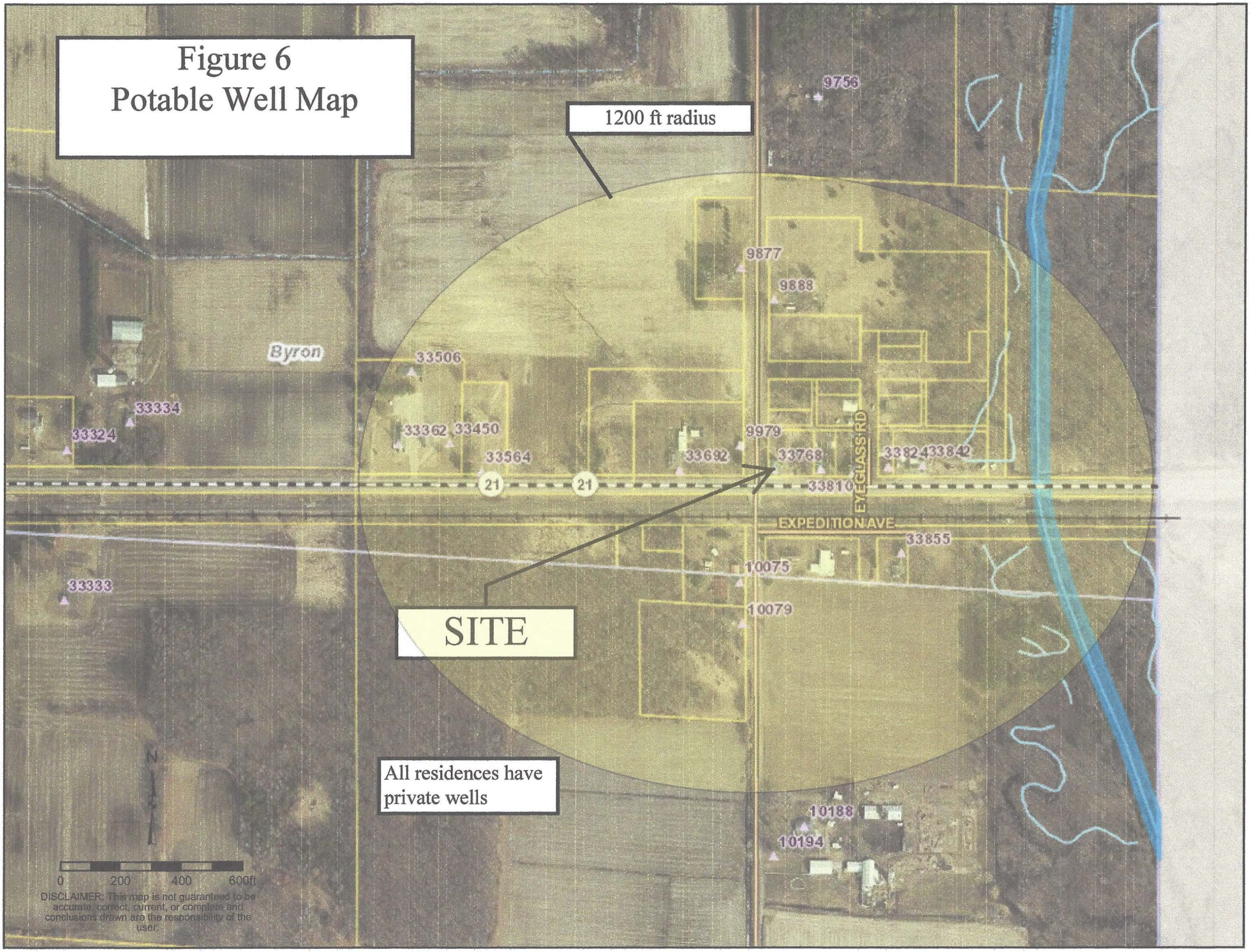
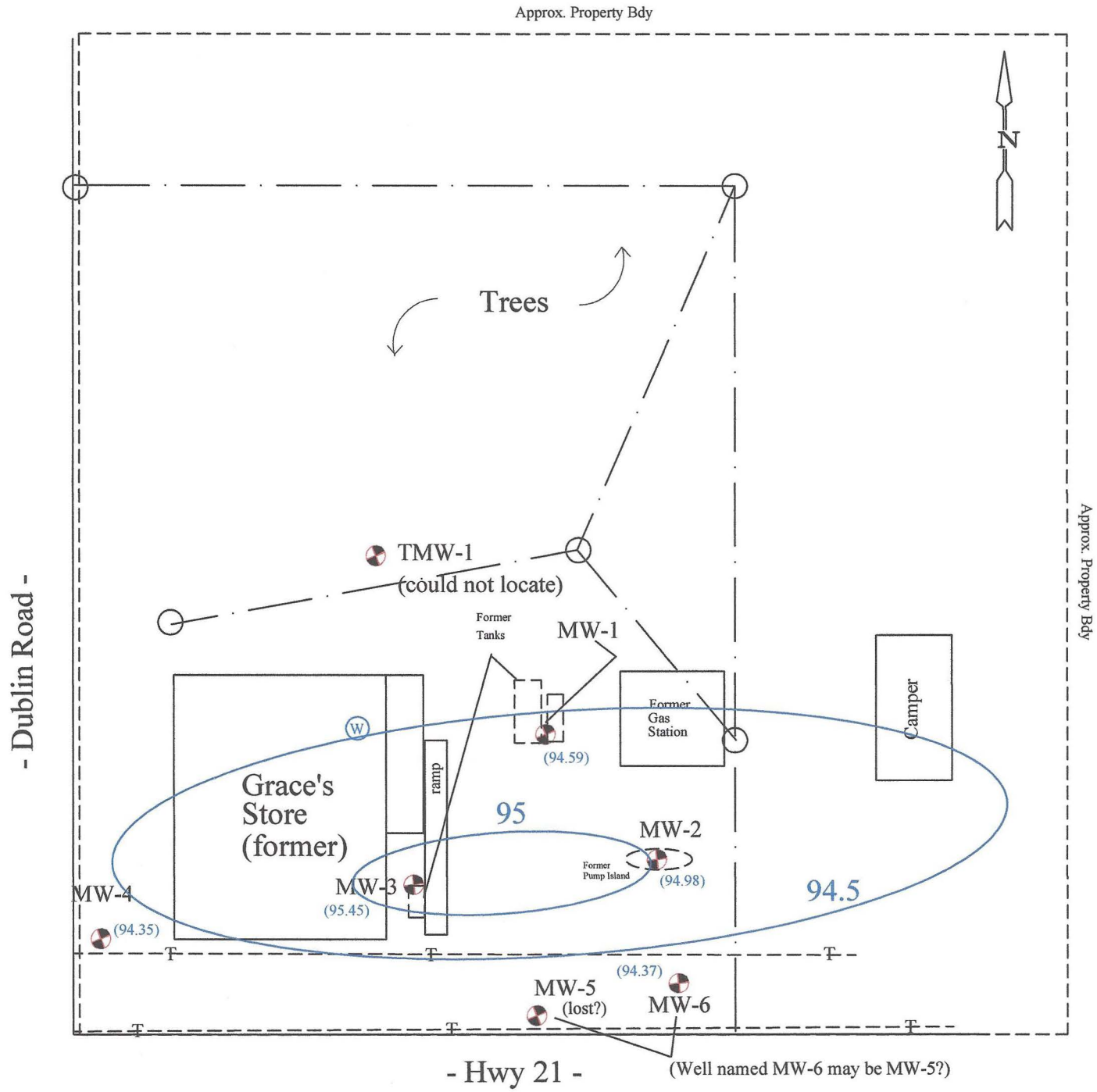


Figure 6
Potable Well Map
1200 ft radius
9756
9877
9888
Byron
33506
33334
33324
33362
33450
9979
33564
33692
33768
33824
33842
21
21
33810
EXPEDITION AVE
EYEGLASS RD
33855
10075
33333
10079
SITE
All residences have
private wells
10188
10194
N
0
200
400
600ft
DISCLAIMER: This map is not guaranteed to be accurate, correct, current, or complete and conclusions drawn are the responsibility of the user.



Legend

- Monitor Well
- Power Pole
- Overhead Utilities
- Telephone lines (underground)
- (W)
- -- 94.5 -- Ground Water Contour

5 0 5 10 15 20 25
SCALE – FEET
(APPROXIMATE SCALE)

Figure 7
Ground Water Contours (6/26/19)
Grace's Store
Shennington (Camp Douglas), WI

PROJECT NO.	PREPARED BY
05F756	KAS
DATE	REVIEWED BY
8/30/19	KAS

Meridian Environmental Consulting, LLC

APPENDIX A

Soil Boring Logs
Monitoring Well Forms

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: Grace's Store (Former)	License/Permit/Monitoring Number	Boring Number: GP-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darin Last Name: & Keith — Firm: Geiss	Date Drilling Started: 6/26/2019	Date Drilling Completed: 6/26/2019	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: Monroe	County Code	Civil Town/City/ or Village: Shennington

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
			1	brown silty clay soft. wet 1-3 ft.				.2		wet				
			5	no recovery										
			10	brown/tan mottled silt, moist				.8		moist				
				EOB = 10 ft.										

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

Signature _____ Firm: Meridian Env. & Hy, 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.

GP-1

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21

Well City, Village or Town: Sheminvgton | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: soil boring | WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Grace's Store (former)

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner: 33768 Hwy. 21

City of Present Owner: Camp Douglas | State: WI | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19

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.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route: | Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452

Signature of Person Doing Work: | Date Signed: 7/22/19

DNR Use Only

Date Received	Noted By
Comments	

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: Graces Store (former)	License/Permit/Monitoring Number	Boring Number: GP-2	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darin Last Name: & Keith — Firm: Geiss	Date Drilling Started: 6/26/2019	Date Drilling Completed: 6/26/2019	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: Monroe	County Code	Civil Town/City/ or Village: Shennington

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
				(next to MW-1) brown fill - silted clay & sand. wet 3ft soft.				1		wet				
			5					1		moist				
				brown tan mottled silt. moist				9.8		moist				
			10	EOB = 10 ft.										

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

Signature: [signature] Firm: Meridian Env. & Hy, 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.

GP-2

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21
Well City, Village or Town: Sheminyton
Well ZIP Code:
Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21
City of Present Owner: Camp Douglas
State: WI
ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19

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

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route:
Telephone Number: ( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Merrill	WI	54452		7/22/19

DNR Use Only

Date Received	Noted By
Comments	

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	License/Permit/Monitoring Number	Boring Number
Grace's Store (former)		GP-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darin Last Name: + Keith Firm: Geiss	6/26/2019 (mm dd yyyy)	6/26/2019 (mm dd yyyy)	Geoprobe

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 ______ Feet ☐ N ☐ S ______ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Monroe		Shennington

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 silt w/ clay wet ~3 ft. ↓				.6		wet @ 3'				
			5	sand seam										
				brown mottled silt.				33		moist				
			10	brown silt, mottled moist, no odor				6.8		moist				

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

Signature	Firm
[signature]	Meridian Envir. Cs Hg, 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.

GP-3

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21

Well City, Village or Town: Sheminigton | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: soil boring | WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Grace's Store (former)

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner: 33768 Hwy. 21

City of Present Owner: Camp Douglas | State: WI | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19

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

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route: | Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452 | Signature of Person Doing Work | Date Signed: 7/22/19

DNR Use Only

Date Received	Noted By
Comments	

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: Grace's Store (Former)	License/Permit/Monitoring Number	Boring Number: GP-4

Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darin Last Name: + Keith Firm: Geiss	Date Drilling Started 6/26/2019 (mm dd yyyy)	Date Drilling Completed 6/26/2019 (mm dd yyyy)	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: Monroe	County Code	Civil Town/City/ or Village: Shennington

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
				(next to MW-2)										
				brown f. sand fill wet ~2 ft.				1.2		wet				
			5	brown lean clay moist. no odor				23		moist				
				↓				.6		↓				
			10	EOB = 10 ft										

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

Signature: [signature]	Firm: Meridian Env. Cs Hg, 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.

GP-4

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21
Well City, Village or Town: Sheminyton
Well ZIP Code:
Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21
City of Present Owner: Camp Douglas
State: WI
ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19
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.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route:
Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452

Signature of Person Doing Work:

Date Signed: 7/22/19

DNR Use Only
Date Received:
Noted By:
Comments:

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	License/Permit/Monitoring Number	Boring Number
Grace's Store (Former)		GP-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darin Last Name: + Keith Firm: Geiss	6/26/2019 (mm dd yyyy)	6/26/2019 (mm dd yyyy)	Geoprobe

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
	Monroe		Shennington

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 f. sand moist. ↓				.4		moist ↓				
			5	brown lean clay moist. ↓				.4						
								.3						
			10	EOB = 10 ft.										

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

Signature	Firm
[signature]	Meridian Envir. Cs Hy, 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.

GP-5

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21
Well City, Village or Town: Sheminyton
Well ZIP Code:
Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21
City of Present Owner: Camp Douglas
State: WI
ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19
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.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

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

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route:
Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452

Signature of Person Doing Work:
Date Signed: 7/22/19

DNR Use Only
Date Received:
Noted By:
Comments:

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: Graces Store (Former)	License/Permit/Monitoring Number	Boring Number: GP-6	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Derin Last Name: & Keith — Firm: Geiss	Date Drilling Started: 6/26/2019	Date Drilling Completed: 6/26/2019	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: Monroe	County Code	Civil Town/City/ or Village: Shennington

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
			1	brown F. sand Fill				.4		wet				
				wet ~ 2 Ft.										
			5	brown lean clay				.5		moist				
				moist										
			10	EOB = 10 Ft.				.8						

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

Signature: [signature] Firm: Meridian Env. & Hy, 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.

GP-6

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21

Well City, Village or Town	Well ZIP Code
Sheminyton	

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
soil boring	_ _ _ _ _

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21

City of Present Owner	State	ZIP Code
Camp Douglas	WI	

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19
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.)

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

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route	Telephone Number
	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Merrill	WI	54452		7/22/19

DNR Use Only

Date Received	Noted By

Comments:

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	License/Permit/Monitoring Number	Boring Number
Grace's Store (former)		GP-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darin Last Name: & Keith Firm: Geiss	6/26/2019 (m m d d y y y y)	6/26/2019 (m m d d y y y y)	Geoprobe

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
	Monroe		Shennington

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 f. sand moist				.3		mo-wt				
			5	brown lean clay moist				.3						
								.7						
			10	EOB = 10 ft.										

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

Signature _____ Firm Meridian Env. Grp, 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.

GP-7

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21

Well City, Village or Town: Sheminigton | Well ZIP Code:

Subdivision Name: | Lot #:

Reason for Removal from Service: soil boring | WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Grace's Store (former)

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner:

Mailing Address of Present Owner: 33768 Hwy. 21

City of Present Owner: Camp Douglas | State: WI | ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19

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

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route: | Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452

Signature of Person Doing Work: | Date Signed: 7/22/19

DNR Use Only

Date Received	Noted By

Comments:

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: Graces Store (former)	License/Permit/Monitoring Number	Boring Number: GP-8	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darin Last Name: & Keith — Firm: Geiss	Date Drilling Started: 6/26/2019	Date Drilling Completed: 6/26/2019	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: Monroe	County Code	Civil Town/City/ or Village: Sheminngton

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 lean clay moist				.9		moist				
			5					11.1						
			10					4.3						
				EOB = 10 ft.										

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

Signature: [signature] Firm: Meridian Env. Tech, 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.

GP-8

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21
Well City, Village or Town: Sheminyton
Well ZIP Code:
Subdivision Name:
Lot #:

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

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21
City of Present Owner: Camp Douglas
State: WI
ZIP Code:

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19
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.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route:
Telephone Number: ( )

City: Merrill | State: WI | ZIP Code: 54452
Signature of Person Doing Work:
Date Signed: 7/22/19

DNR Use Only
Date Received:
Noted By:
Comments:

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: Grace's Store (Former)	License/Permit/Monitoring Number	Boring Number: GP-9	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darin Last Name: & Keith — Firm: Geiss	Date Drilling Started: 6/26/2019	Date Drilling Completed: 6/26/2019	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: Monroe	County Code	Civil Town/City/ or Village: Shemington

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
			1	(west side of fault basin)										
				brown f. sand				1.1		wet				
				w/ 2'										
			5	brown silty clay						moist				
				moist				0.8						
								1.0						
			10											

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

Signature _____ Firm: Meridian Env. & Hy, 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.

GP-9

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

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

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

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

Well Street Address: 33768 Hwy. 21

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

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

2. Facility / Owner Information

Facility Name: Grace's Store (former)
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner: 33768 Hwy. 21

City of Present Owner	State	ZIP Code
Camp Douglas	WI	

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6-26-19
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.)
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

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

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
granular bentonite	Surface	10		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Geiss		6/26/19

Street or Route	Telephone Number
	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Merrill	WI	54452		7/22/19

DNR Use Only

Date Received	Noted By
Comments	

APPENDIX B

Laboratory Reports

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

July 16, 2019

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

RE: Project: GRACE'S STORE
Pace Project No.: 40190526

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on July 02, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: GRACE'S STORE
Pace Project No.: 40190526

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: GRACE'S STORE
Pace Project No.: 40190526

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40190526001	**1: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526002	**1: 8-9**	Solid	06/26/19 00:00	07/02/19 09:20
40190526003	**2: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526004	**2: 8 FT.**	Solid	06/26/19 00:00	07/02/19 09:20
40190526005	**3: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526006	**3: 5-6**	Solid	06/26/19 00:00	07/02/19 09:20
40190526007	**3: 8-10**	Solid	06/26/19 00:00	07/02/19 09:20
40190526008	**4: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526009	**4: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526010	**5: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526011	**5: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526012	**6: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526013	**6: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526014	**7: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526015	**7: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526016	**8: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526017	**8: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526018	**9: 3-4**	Solid	06/26/19 00:00	07/02/19 09:20
40190526019	**9: 7-8**	Solid	06/26/19 00:00	07/02/19 09:20
40190526020	**MW-1**	Water	06/26/19 00:00	07/02/19 09:20
40190526021	**MW-2**	Water	06/26/19 00:00	07/02/19 09:20
40190526022	**MW-3**	Water	06/26/19 00:00	07/02/19 09:20
40190526023	**MW-4**	Water	06/26/19 00:00	07/02/19 09:20
40190526024	**MW-6**	Water	06/26/19 00:00	07/02/19 09:20
40190526025	**HOUSE**	Water	06/26/19 00:00	07/02/19 09:20

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SAMPLE ANALYTE COUNT

Project: GRACE'S STORE
Pace Project No.: 40190526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40190526001	**1: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526002	**1: 8-9**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526003	**2: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526004	**2: 8 FT.**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526005	**3: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526006	**3: 5-6**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526007	**3: 8-10**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526008	**4: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526009	**4: 7-8**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526010	**5: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526011	**5: 7-8**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526012	**6: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526013	**6: 7-8**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526014	**7: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526015	**7: 7-8**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526016	**8: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526017	**8: 7-8**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526018	**9: 3-4**	EPA 8260	MDS	12	PASI-G
		ASTM D2974-87	SKW	1	PASI-G
40190526019	**9: 7-8**	EPA 8260	MDS	12	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GRACE'S STORE
Pace Project No.: 40190526

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	SKW	1	PASI-G
40190526020	**MW-1**	EPA 8260	LAP	12	PASI-G
40190526021	**MW-2**	EPA 8260	LAP	12	PASI-G
40190526022	**MW-3**	EPA 8260	LAP	12	PASI-G
40190526023	**MW-4**	EPA 8260	LAP	12	PASI-G
40190526024	**MW-6**	EPA 8260	LAP	12	PASI-G
40190526025	**HOUSE**	EPA 8260	LAP	12	PASI-G

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PROJECT NARRATIVE

Project: GRACE'S STORE
Pace Project No.: 40190526

Method: **EPA 8260**
Description: 8260 MSV Med Level Short List
Client: Meridian Environmental Consulting, LLC
Date: July 16, 2019

General Information:
19 samples were 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.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B 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:

Analyte Comments:

QC Batch: 326623

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

- 3: 5-6 (Lab ID: 40190526006)
  - Dibromofluoromethane (S)

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PROJECT NARRATIVE

Project: GRACE'S STORE
Pace Project No.: 40190526

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: July 16, 2019

General Information:
6 samples were 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.

QC Batch: 326687

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40190620002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1897287)
  - Benzene
- MSD (Lab ID: 1897288)
  - Benzene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1897288)
  - Benzene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: GRACE'S STORE
Pace Project No.: 40190526

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: July 16, 2019

Analyte Comments:

QC Batch: 326687

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MS (Lab ID: 1897287)
  - Benzene
- MSD (Lab ID: 1897288)
  - Benzene

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

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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 1: 3-4 **Lab ID: 40190526001** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 18:02	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 18:02	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:02	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	57-146		1	07/05/19 08:15	07/08/19 18:02	1868-53-7	
4-Bromofluorobenzene (S)	85	%	54-126		1	07/05/19 08:15	07/08/19 18:02	460-00-4	
Toluene-d8 (S)	83	%	64-134		1	07/05/19 08:15	07/08/19 18:02	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.8**	%	0.10	0.10	1		07/16/19 06:56		

Sample: 1: 8-9 **Lab ID: 40190526002** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 18:25	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 18:25	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:25	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-146		1	07/05/19 08:15	07/08/19 18:25	1868-53-7	
4-Bromofluorobenzene (S)	95	%	54-126		1	07/05/19 08:15	07/08/19 18:25	460-00-4	
Toluene-d8 (S)	90	%	64-134		1	07/05/19 08:15	07/08/19 18:25	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.2**	%	0.10	0.10	1		07/16/19 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 2: 3-4 **Lab ID: 40190526003** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 19:12	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 19:12	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	57-146		1	07/05/19 08:15	07/08/19 19:12	1868-53-7	
4-Bromofluorobenzene (S)	94	%	54-126		1	07/05/19 08:15	07/08/19 19:12	460-00-4	
Toluene-d8 (S)	91	%	64-134		1	07/05/19 08:15	07/08/19 19:12	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.1**	%	0.10	0.10	1		07/16/19 06:56		

Sample: 2: 8 FT. **Lab ID: 40190526004** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 19:35	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 19:35	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-146		1	07/05/19 08:15	07/08/19 19:35	1868-53-7	
4-Bromofluorobenzene (S)	89	%	54-126		1	07/05/19 08:15	07/08/19 19:35	460-00-4	
Toluene-d8 (S)	88	%	64-134		1	07/05/19 08:15	07/08/19 19:35	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**31.9**	%	0.10	0.10	1		07/16/19 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 3: 3-4 **Lab ID: 40190526005** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 19:58	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	108-88-3	W
1,2,4-Trimethylbenzene	**40.3J**	ug/kg	72.2	30.1	1	07/05/19 08:15	07/08/19 19:58	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 19:58	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 19:58	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	07/05/19 08:15	07/08/19 19:58	1868-53-7	
4-Bromofluorobenzene (S)	91	%	54-126		1	07/05/19 08:15	07/08/19 19:58	460-00-4	
Toluene-d8 (S)	87	%	64-134		1	07/05/19 08:15	07/08/19 19:58	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.9**	%	0.10	0.10	1		07/16/19 06:56		

Sample: 3: 5-6 **Lab ID: 40190526006** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<50.0**	ug/kg	120	50.0	2	07/05/19 08:15	07/09/19 01:22	71-43-2	W
Ethylbenzene	**98.7J**	ug/kg	162	67.5	2	07/05/19 08:15	07/09/19 01:22	100-41-4	
Methyl-tert-butyl ether	**<50.0**	ug/kg	120	50.0	2	07/05/19 08:15	07/09/19 01:22	1634-04-4	W
Naphthalene	**<80.1**	ug/kg	500	80.1	2	07/05/19 08:15	07/09/19 01:22	91-20-3	W
Toluene	**<50.0**	ug/kg	120	50.0	2	07/05/19 08:15	07/09/19 01:22	108-88-3	W
1,2,4-Trimethylbenzene	**1330**	ug/kg	162	67.5	2	07/05/19 08:15	07/09/19 01:22	95-63-6	
1,3,5-Trimethylbenzene	**904**	ug/kg	162	67.5	2	07/05/19 08:15	07/09/19 01:22	108-67-8	
m&p-Xylene	**370**	ug/kg	324	135	2	07/05/19 08:15	07/09/19 01:22	179601-23-1	
o-Xylene	**<50.0**	ug/kg	120	50.0	2	07/05/19 08:15	07/09/19 01:22	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	57-146		2	07/05/19 08:15	07/09/19 01:22	1868-53-7	D3
4-Bromofluorobenzene (S)	94	%	54-126		2	07/05/19 08:15	07/09/19 01:22	460-00-4	
Toluene-d8 (S)	84	%	64-134		2	07/05/19 08:15	07/09/19 01:22	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.9**	%	0.10	0.10	1		07/16/19 06:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 3: 8-10 **Lab ID: 40190526007** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**306**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	71-43-2	
Ethylbenzene	**1240**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:21	1634-04-4	W
Naphthalene	**176J**	ug/kg	364	58.3	1	07/05/19 08:15	07/08/19 20:21	91-20-3	
Toluene	**271**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	108-88-3	
1,2,4-Trimethylbenzene	**664**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	95-63-6	
1,3,5-Trimethylbenzene	**199**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	108-67-8	
m&p-Xylene	**1220**	ug/kg	175	72.9	1	07/05/19 08:15	07/08/19 20:21	179601-23-1	
o-Xylene	**132**	ug/kg	87.4	36.4	1	07/05/19 08:15	07/08/19 20:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	120	%	57-146		1	07/05/19 08:15	07/08/19 20:21	1868-53-7	
4-Bromofluorobenzene (S)	116	%	54-126		1	07/05/19 08:15	07/08/19 20:21	460-00-4	
Toluene-d8 (S)	111	%	64-134		1	07/05/19 08:15	07/08/19 20:21	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**31.4**	%	0.10	0.10	1		07/16/19 06:56		

Sample: 4: 3-4 **Lab ID: 40190526008** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 18:49	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 18:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 18:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-146		1	07/05/19 08:15	07/08/19 18:49	1868-53-7	
4-Bromofluorobenzene (S)	93	%	54-126		1	07/05/19 08:15	07/08/19 18:49	460-00-4	
Toluene-d8 (S)	88	%	64-134		1	07/05/19 08:15	07/08/19 18:49	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		07/16/19 06:56		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 4: 7-8 **Lab ID: 40190526009** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 20:45	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 20:45	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 20:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	127	%	57-146		1	07/05/19 08:15	07/08/19 20:45	1868-53-7	
4-Bromofluorobenzene (S)	125	%	54-126		1	07/05/19 08:15	07/08/19 20:45	460-00-4	
Toluene-d8 (S)	119	%	64-134		1	07/05/19 08:15	07/08/19 20:45	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**25.4**	%	0.10	0.10	1		07/16/19 06:56		

Sample: 5: 3-4 **Lab ID: 40190526010** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 21:08	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 21:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:08	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	118	%	57-146		1	07/05/19 08:15	07/08/19 21:08	1868-53-7	
4-Bromofluorobenzene (S)	111	%	54-126		1	07/05/19 08:15	07/08/19 21:08	460-00-4	
Toluene-d8 (S)	110	%	64-134		1	07/05/19 08:15	07/08/19 21:08	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.9**	%	0.10	0.10	1		07/16/19 06:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 5: 7-8 **Lab ID: 40190526011** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 21:31	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 21:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-146		1	07/05/19 08:15	07/08/19 21:31	1868-53-7	
4-Bromofluorobenzene (S)	109	%	54-126		1	07/05/19 08:15	07/08/19 21:31	460-00-4	
Toluene-d8 (S)	107	%	64-134		1	07/05/19 08:15	07/08/19 21:31	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.8**	%	0.10	0.10	1		07/16/19 07:16		

Sample: 6: 3-4 **Lab ID: 40190526012** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 21:54	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 21:54	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 21:54	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	57-146		1	07/05/19 08:15	07/08/19 21:54	1868-53-7	
4-Bromofluorobenzene (S)	101	%	54-126		1	07/05/19 08:15	07/08/19 21:54	460-00-4	
Toluene-d8 (S)	101	%	64-134		1	07/05/19 08:15	07/08/19 21:54	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.5**	%	0.10	0.10	1		07/16/19 07:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 6: 7-8 **Lab ID: 40190526013** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 22:17	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 22:17	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:17	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-146		1	07/05/19 08:15	07/08/19 22:17	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	07/05/19 08:15	07/08/19 22:17	460-00-4	
Toluene-d8 (S)	103	%	64-134		1	07/05/19 08:15	07/08/19 22:17	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.6**	%	0.10	0.10	1		07/16/19 07:16		

Sample: 7: 3-4 **Lab ID: 40190526014** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 22:40	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 22:40	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 22:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	117	%	57-146		1	07/05/19 08:15	07/08/19 22:40	1868-53-7	
4-Bromofluorobenzene (S)	107	%	54-126		1	07/05/19 08:15	07/08/19 22:40	460-00-4	
Toluene-d8 (S)	105	%	64-134		1	07/05/19 08:15	07/08/19 22:40	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.6**	%	0.10	0.10	1		07/16/19 07:16		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 7: 7-8 **Lab ID: 40190526015** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 23:03	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 23:03	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	116	%	57-146		1	07/05/19 08:15	07/08/19 23:03	1868-53-7	
4-Bromofluorobenzene (S)	105	%	54-126		1	07/05/19 08:15	07/08/19 23:03	460-00-4	
Toluene-d8 (S)	105	%	64-134		1	07/05/19 08:15	07/08/19 23:03	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.1**	%	0.10	0.10	1		07/16/19 07:16		

Sample: 8: 3-4 **Lab ID: 40190526016** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 23:26	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 23:26	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	124	%	57-146		1	07/05/19 08:15	07/08/19 23:26	1868-53-7	
4-Bromofluorobenzene (S)	117	%	54-126		1	07/05/19 08:15	07/08/19 23:26	460-00-4	
Toluene-d8 (S)	114	%	64-134		1	07/05/19 08:15	07/08/19 23:26	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.9**	%	0.10	0.10	1		07/16/19 07:16		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 8: 7-8 **Lab ID: 40190526017** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/09/19 10:32	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/09/19 10:32	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 10:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	97	%	57-146		1	07/05/19 08:15	07/09/19 10:32	1868-53-7	
4-Bromofluorobenzene (S)	96	%	54-126		1	07/05/19 08:15	07/09/19 10:32	460-00-4	
Toluene-d8 (S)	86	%	64-134		1	07/05/19 08:15	07/09/19 10:32	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**26.7**	%	0.10	0.10	1		07/16/19 07:16		

Sample: 9: 3-4 **Lab ID: 40190526018** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/08/19 23:50	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/08/19 23:50	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/08/19 23:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	07/05/19 08:15	07/08/19 23:50	1868-53-7	
4-Bromofluorobenzene (S)	99	%	54-126		1	07/05/19 08:15	07/08/19 23:50	460-00-4	
Toluene-d8 (S)	100	%	64-134		1	07/05/19 08:15	07/08/19 23:50	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.0**	%	0.10	0.10	1		07/16/19 07:16		

REPORT OF LABORATORY ANALYSIS

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

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: 9: 7-8 **Lab ID: 40190526019** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	07/05/19 08:15	07/09/19 00:13	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	07/05/19 08:15	07/09/19 00:13	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	07/05/19 08:15	07/09/19 00:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	114	%	57-146		1	07/05/19 08:15	07/09/19 00:13	1868-53-7	
4-Bromofluorobenzene (S)	109	%	54-126		1	07/05/19 08:15	07/09/19 00:13	460-00-4	
Toluene-d8 (S)	106	%	64-134		1	07/05/19 08:15	07/09/19 00:13	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**29.7**	%	0.10	0.10	1		07/16/19 07:16		

Sample: MW-1 **Lab ID: 40190526020** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/08/19 13:31	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/08/19 13:31	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/08/19 13:31	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/08/19 13:31	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/08/19 13:31	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/08/19 13:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/08/19 13:31	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/08/19 13:31	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/08/19 13:31	95-47-6	
Surrogates									
Dibromofluoromethane (S)	102	%	70-130		1		07/08/19 13:31	1868-53-7	HS
Toluene-d8 (S)	97	%	70-130		1		07/08/19 13:31	2037-26-5	
4-Bromofluorobenzene (S)	97	%	70-130		1		07/08/19 13:31	460-00-4	

Sample: MW-2 **Lab ID: 40190526021** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/08/19 13:53	71-43-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: MW-2 **Lab ID: 40190526021** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/08/19 13:53	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/08/19 13:53	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/08/19 13:53	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/08/19 13:53	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/08/19 13:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/08/19 13:53	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/08/19 13:53	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/08/19 13:53	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		07/08/19 13:53	1868-53-7	HS
Toluene-d8 (S)	96	%	70-130		1		07/08/19 13:53	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		07/08/19 13:53	460-00-4	

Sample: MW-3 **Lab ID: 40190526022** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/08/19 14:16	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/08/19 14:16	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/08/19 14:16	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/08/19 14:16	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/08/19 14:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/08/19 14:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/08/19 14:16	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/08/19 14:16	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/08/19 14:16	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		07/08/19 14:16	1868-53-7	HS
Toluene-d8 (S)	98	%	70-130		1		07/08/19 14:16	2037-26-5	
4-Bromofluorobenzene (S)	99	%	70-130		1		07/08/19 14:16	460-00-4	

Sample: MW-4 **Lab ID: 40190526023** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/04/19 02:44	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/04/19 02:44	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/04/19 02:44	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/04/19 02:44	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/04/19 02:44	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/04/19 02:44	95-63-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: MW-4 **Lab ID: 40190526023** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/04/19 02:44	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/04/19 02:44	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/04/19 02:44	95-47-6	
Surrogates									
Dibromofluoromethane (S)	95	%	70-130		1		07/04/19 02:44	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		07/04/19 02:44	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		07/04/19 02:44	460-00-4	

Sample: MW-6 **Lab ID: 40190526024** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/04/19 03:06	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/04/19 03:06	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/04/19 03:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/04/19 03:06	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/04/19 03:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/04/19 03:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/04/19 03:06	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/04/19 03:06	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/04/19 03:06	95-47-6	
Surrogates									
Dibromofluoromethane (S)	101	%	70-130		1		07/04/19 03:06	1868-53-7	HS
Toluene-d8 (S)	91	%	70-130		1		07/04/19 03:06	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		07/04/19 03:06	460-00-4	

Sample: HOUSE **Lab ID: 40190526025** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		07/04/19 03:28	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		07/04/19 03:28	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		07/04/19 03:28	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		07/04/19 03:28	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		07/04/19 03:28	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		07/04/19 03:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		07/04/19 03:28	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		07/04/19 03:28	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		07/04/19 03:28	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		1		07/04/19 03:28	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: GRACE'S STORE
Pace Project No.: 40190526

Sample: HOUSE **Lab ID: 40190526025** Collected: 06/26/19 00:00 Received: 07/02/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Toluene-d8 (S)	91	%	70-130		1		07/04/19 03:28	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		07/04/19 03:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

QC Batch: 326623 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40190526001, 40190526002, 40190526003, 40190526004, 40190526005, 40190526006, 40190526007, 40190526008, 40190526009, 40190526010, 40190526011, 40190526012, 40190526013, 40190526014, 40190526015, 40190526016, 40190526017, 40190526018, 40190526019

METHOD BLANK: 1896759 Matrix: Solid
Associated Lab Samples: 40190526001, 40190526002, 40190526003, 40190526004, 40190526005, 40190526006, 40190526007, 40190526008, 40190526009, 40190526010, 40190526011, 40190526012, 40190526013, 40190526014, 40190526015, 40190526016, 40190526017, 40190526018, 40190526019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	07/08/19 08:54	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	07/08/19 08:54	
Benzene	ug/kg	<9.2	20.0	07/08/19 08:54	
Ethylbenzene	ug/kg	<12.4	50.0	07/08/19 08:54	
m&p-Xylene	ug/kg	<34.4	100	07/08/19 08:54	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	07/08/19 08:54	
Naphthalene	ug/kg	<40.0	250	07/08/19 08:54	
o-Xylene	ug/kg	<14.0	50.0	07/08/19 08:54	
Toluene	ug/kg	<11.2	50.0	07/08/19 08:54	
4-Bromofluorobenzene (S)	%	113	54-126	07/08/19 08:54	
Dibromofluoromethane (S)	%	115	57-146	07/08/19 08:54	
Toluene-d8 (S)	%	110	64-134	07/08/19 08:54	

LABORATORY CONTROL SAMPLE: 1896760

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2450	98	70-130	
Ethylbenzene	ug/kg	2500	2350	94	82-122	
m&p-Xylene	ug/kg	5000	4650	93	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2790	112	70-130	
o-Xylene	ug/kg	2500	2280	91	70-130	
Toluene	ug/kg	2500	2290	92	80-121	
4-Bromofluorobenzene (S)	%			109	54-126	
Dibromofluoromethane (S)	%			102	57-146	
Toluene-d8 (S)	%			97	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1896761 1896762

Parameter	Units	40190526008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1360	1360	1330	1500	98	111	70-130	12	20	
Ethylbenzene	ug/kg	<25.0	1360	1360	1150	1320	85	97	80-122	14	20	
m&p-Xylene	ug/kg	<50.0	2720	2720	2320	2690	85	98	70-130	15	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1360	1360	1550	1620	114	119	70-130	5	20	
o-Xylene	ug/kg	<25.0	1360	1360	1160	1320	84	97	70-130	13	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1896761 1896762

Parameter	Units	40190526008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/kg	<25.0	1360	1360	1160	1340	85	98	80-121	14	20	
4-Bromofluorobenzene (S)	%						98	115	54-126			
Dibromofluoromethane (S)	%						95	107	57-146			
Toluene-d8 (S)	%						88	102	64-134			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

QC Batch: 326450 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40190526023, 40190526024, 40190526025

METHOD BLANK: 1895707 Matrix: Water
Associated Lab Samples: 40190526023, 40190526024, 40190526025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	07/03/19 17:00	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	07/03/19 17:00	
Benzene	ug/L	<0.25	1.0	07/03/19 17:00	
Ethylbenzene	ug/L	<0.22	1.0	07/03/19 17:00	
m&p-Xylene	ug/L	<0.47	2.0	07/03/19 17:00	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	07/03/19 17:00	
Naphthalene	ug/L	<1.2	5.0	07/03/19 17:00	
o-Xylene	ug/L	<0.26	1.0	07/03/19 17:00	
Toluene	ug/L	<0.17	5.0	07/03/19 17:00	
4-Bromofluorobenzene (S)	%	88	70-130	07/03/19 17:00	
Dibromofluoromethane (S)	%	95	70-130	07/03/19 17:00	
Toluene-d8 (S)	%	95	70-130	07/03/19 17:00	

LABORATORY CONTROL SAMPLE: 1895708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	47.6	95	70-130	
Ethylbenzene	ug/L	50	50.9	102	80-124	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	46.8	94	54-137	
o-Xylene	ug/L	50	51.1	102	70-130	
Toluene	ug/L	50	49.7	99	80-126	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1896723 1896724

Parameter	Units	40190484004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	45.7	43.8	91	88	70-130	4	20	
Ethylbenzene	ug/L	<0.22	50	50	47.9	47.9	96	96	80-125	0	20	
m&p-Xylene	ug/L	<0.47	100	100	98.4	99.0	98	99	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.4	41.8	89	84	51-145	6	20	
o-Xylene	ug/L	<0.26	50	50	47.0	47.7	94	95	70-130	1	20	
Toluene	ug/L	<0.17	50	50	47.8	47.8	96	96	80-131	0	20	
4-Bromofluorobenzene (S)	%						97	98	70-130			
Dibromofluoromethane (S)	%						97	93	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1896723 1896724

Parameter	Units	40190484004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						98	98	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

QC Batch: 326687 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40190526020, 40190526021, 40190526022

METHOD BLANK: 1897285 Matrix: Water
Associated Lab Samples: 40190526020, 40190526021, 40190526022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	07/08/19 07:04	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	07/08/19 07:04	
Benzene	ug/L	<0.25	1.0	07/08/19 07:04	
Ethylbenzene	ug/L	<0.22	1.0	07/08/19 07:04	
m&p-Xylene	ug/L	<0.47	2.0	07/08/19 07:04	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	07/08/19 07:04	
Naphthalene	ug/L	<1.2	5.0	07/08/19 07:04	
o-Xylene	ug/L	<0.26	1.0	07/08/19 07:04	
Toluene	ug/L	<0.17	5.0	07/08/19 07:04	
4-Bromofluorobenzene (S)	%	97	70-130	07/08/19 07:04	
Dibromofluoromethane (S)	%	100	70-130	07/08/19 07:04	
Toluene-d8 (S)	%	98	70-130	07/08/19 07:04	

LABORATORY CONTROL SAMPLE: 1897286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	46.5	93	70-130	
Ethylbenzene	ug/L	50	47.1	94	80-124	
m&p-Xylene	ug/L	100	93.4	93	70-130	
Methyl-tert-butyl ether	ug/L	50	47.7	95	54-137	
o-Xylene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	45.2	90	80-126	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1897287 1897288

Parameter	Units	40190620002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	901	50	50	738	908	-326	15	70-130	21	20	E,M1, R1
Ethylbenzene	ug/L	15.6	50	50	70.7	77.3	110	124	80-125	9	20	
m&p-Xylene	ug/L	40.0	100	100	155	168	115	128	70-130	8	20	
Methyl-tert-butyl ether	ug/L	<25.0	50	50	57.1	64.0	114	128	51-145	11	20	
o-Xylene	ug/L	4.0J	50	50	55.7	60.7	103	113	70-130	9	20	
Toluene	ug/L	<5.0	50	50	53.1	53.5	106	107	80-131	1	20	
4-Bromofluorobenzene (S)	%						99	105	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1897287 1897288

Parameter	Units	40190620002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						102	95	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

QC Batch: 327591 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40190526001, 40190526002, 40190526003, 40190526004, 40190526005, 40190526006, 40190526007, 40190526008, 40190526009, 40190526010

SAMPLE DUPLICATE: 1902254

Parameter	Units	40190526002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.2	26.9	7	10	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: GRACE'S STORE
Pace Project No.: 40190526

QC Batch: 327604 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40190526011, 40190526012, 40190526013, 40190526014, 40190526015, 40190526016, 40190526017, 40190526018, 40190526019

SAMPLE DUPLICATE: 1902289

Parameter	Units	40190526015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.1	27.8	4	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: GRACE'S STORE
Pace Project No.: 40190526

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRACE'S STORE
Pace Project No.: 40190526

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40190526001	1: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526002	1: 8-9	EPA 5035/5030B	326623	EPA 8260	326626
40190526003	2: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526004	2: 8 FT.	EPA 5035/5030B	326623	EPA 8260	326626
40190526005	3: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526006	3: 5-6	EPA 5035/5030B	326623	EPA 8260	326626
40190526007	3: 8-10	EPA 5035/5030B	326623	EPA 8260	326626
40190526008	4: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526009	4: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526010	5: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526011	5: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526012	6: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526013	6: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526014	7: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526015	7: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526016	8: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526017	8: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526018	9: 3-4	EPA 5035/5030B	326623	EPA 8260	326626
40190526019	9: 7-8	EPA 5035/5030B	326623	EPA 8260	326626
40190526020	MW-1	EPA 8260	326687		
40190526021	MW-2	EPA 8260	326687		
40190526022	MW-3	EPA 8260	326687		
40190526023	MW-4	EPA 8260	326450		
40190526024	MW-6	EPA 8260	326450		
40190526025	HOUSE	EPA 8260	326450		
40190526001	1: 3-4	ASTM D2974-87	327591		
40190526002	1: 8-9	ASTM D2974-87	327591		
40190526003	2: 3-4	ASTM D2974-87	327591		
40190526004	2: 8 FT.	ASTM D2974-87	327591		
40190526005	3: 3-4	ASTM D2974-87	327591		
40190526006	3: 5-6	ASTM D2974-87	327591		
40190526007	3: 8-10	ASTM D2974-87	327591		
40190526008	4: 3-4	ASTM D2974-87	327591		
40190526009	4: 7-8	ASTM D2974-87	327591		
40190526010	5: 3-4	ASTM D2974-87	327591		
40190526011	5: 7-8	ASTM D2974-87	327604		
40190526012	6: 3-4	ASTM D2974-87	327604		
40190526013	6: 7-8	ASTM D2974-87	327604		
40190526014	7: 3-4	ASTM D2974-87	327604		
40190526015	7: 7-8	ASTM D2974-87	327604		
40190526016	8: 3-4	ASTM D2974-87	327604		
40190526017	8: 7-8	ASTM D2974-87	327604		
40190526018	9: 3-4	ASTM D2974-87	327604		
40190526019	9: 7-8	ASTM D2974-87	327604		

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

TV

40190526

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 Cs Llc
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715 832 6608
Project Number:	
Project Name:	Grace's Store
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian E.C.
Mail To Address:	2711 N. Elco 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, 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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analysis Requested: X PVOC + Naph
001	1: 3-4	6/26		S			X
002	1: 8-9						
003	2: 3-4						
004	2: 8 Ft.						
005	3: 3-4						
006	3: 5-6						
007	3: 8-10						
008	4: 3-4						
009	4: 7-8						
010	5: 3-4						
012 011	5: 7-8						
013 012	6: 3-4						
014 013	6: 7-8						

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #

7/2/19 Rush Turnaround Time Requested - Prelims 2d
(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:
	7/1/19	Fed Ex	7/1/19
Fedex	7/2/19 0820		7/2/19 800
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.: 40190526

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Page 2 of 2

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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 BWCS
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715 832 6608
Project Number:	
Project Name:	Grace) Stone
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	
Mail To Address:	
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	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
015 04	7: 3-4	6/26		S	X pvoc + Naph			
016 015	7: 7-8							
017 016	8: 3-4							
018 017	8: 7-8							
019 018	9: 3-4							
020 019	9: 7-8							
021 020	MW-1			W				
022 021	-2							
023 022	-3							
024 023	-4							
025 024	-6							
026 025	House							

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:
	7-1-19	Fed Ex	7-1-19
Relinquished By:	Date/Time:	Received By:	Date/Time:
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. 4019052 6

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019e(27-Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: meridian Project # 40190526

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

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

	Glass							Plastic							Vials						Jars			General								
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			/				/										2.5 / 5 / 10
002																			/				/										2.5 / 5 / 10
003																			/				/										2.5 / 5 / 10
004																			/				/										2.5 / 5 / 10
005																			/				/										2.5 / 5 / 10
006																			/				/										2.5 / 5 / 10
007																			/				/										2.5 / 5 / 10
008																			/				/										2.5 / 5 / 10
009																			/				/										2.5 / 5 / 10
010																			/				/										2.5 / 5 / 10
011																			/				/										2.5 / 5 / 10
012																			/				/										2.5 / 5 / 10
013																			/				/										2.5 / 5 / 10
014																			/				/										2.5 / 5 / 10
015																			/				/										2.5 / 5 / 10
016																			/				/										2.5 / 5 / 10
017																			/				/										2.5 / 5 / 10
018																			/				/										2.5 / 5 / 10
019																			/				/										2.5 / 5 / 10
020																		3	/				/				3						2.5 / 5 / 10

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

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

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

Sample Preservation Receipt Form

Client Name: meridian Project #: 40190524

	Glass							Plastic							Vials						Jars			General									
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
021																		3									2						2.5 / 5 / 10
022																		3									2						2.5 / 5 / 10
023																		3									2						2.5 / 5 / 10
024																		3									3						2.5 / 5 / 10
025																		3															2.5 / 5 / 10
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																																	2.5 / 5 / 11
																																	2.5 / 5 / 12
																																	2.5 / 5 / 13
																																	2.5 / 5 / 14
																																	2.5 / 5 / 15
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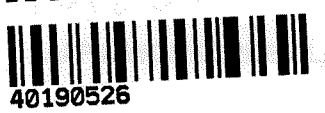
																																	2.5 / 5 / 17
																																	2.5 / 5 / 18
																																	2.5 / 5 / 19
																																	2.5 / 5 / 20

Page __ of ____

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40190526



Client Name: Meridian

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

Tracking #: 7882 1098 1973

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

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

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

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

Cooler Temperature Uncorr: 12°C /Corr:

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

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

Person examining contents:
Date: 7/2/19
Initials:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: 7/2/19	☑Yes ☐No ☐N/A	2. No collect time 7/2/19
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S, W		
Trip Blank Present:	☐Yes ☑No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: Date: 7-3-19

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

August 08, 2019

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

RE: Project: GRACE'S
Pace Project No.: 40192446

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: GRACE'S
Pace Project No.: 40192446

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: GRACE'S
Pace Project No.: 40192446

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40192446001	**33794**	Water	08/01/19 00:00	08/06/19 09:35
40192446002	**TRIP BLANK**	Water	08/01/19 00:00	08/06/19 09:35

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SAMPLE ANALYTE COUNT

Project: GRACE'S
Pace Project No.: 40192446

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40192446001	**33794**	EPA 8260	LAP	12	PASI-G
40192446002	**TRIP BLANK**	EPA 8260	LAP	12	PASI-G

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: GRACE'S
Pace Project No.: 40192446

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: August 08, 2019

General Information:
2 samples were 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: GRACE'S
Pace Project No.: 40192446

Sample: 33794 **Lab ID: 40192446001** Collected: 08/01/19 00:00 Received: 08/06/19 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/08/19 08:18	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/08/19 08:18	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/08/19 08:18	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/08/19 08:18	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/08/19 08:18	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/08/19 08:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/08/19 08:18	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/08/19 08:18	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/08/19 08:18	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	70-130		1		08/08/19 08:18	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/08/19 08:18	2037-26-5	
4-Bromofluorobenzene (S)	89	%	70-130		1		08/08/19 08:18	460-00-4	

Sample: TRIP BLANK **Lab ID: 40192446002** Collected: 08/01/19 00:00 Received: 08/06/19 09:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/08/19 07:55	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/08/19 07:55	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/08/19 07:55	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/08/19 07:55	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/08/19 07:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/08/19 07:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/08/19 07:55	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/08/19 07:55	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/08/19 07:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	103	%	70-130		1		08/08/19 07:55	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/08/19 07:55	2037-26-5	
4-Bromofluorobenzene (S)	90	%	70-130		1		08/08/19 07:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S
Pace Project No.: 40192446

QC Batch: 329821
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40192446001, 40192446002

METHOD BLANK: 1913887 Matrix: Water
Associated Lab Samples: 40192446001, 40192446002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/07/19 07:53	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/07/19 07:53	
Benzene	ug/L	<0.25	1.0	08/07/19 07:53	
Ethylbenzene	ug/L	<0.22	1.0	08/07/19 07:53	
m&p-Xylene	ug/L	<0.47	2.0	08/07/19 07:53	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/07/19 07:53	
Naphthalene	ug/L	<1.2	5.0	08/07/19 07:53	
o-Xylene	ug/L	<0.26	1.0	08/07/19 07:53	
Toluene	ug/L	<0.17	5.0	08/07/19 07:53	
4-Bromofluorobenzene (S)	%	90	70-130	08/07/19 07:53	
Dibromofluoromethane (S)	%	107	70-130	08/07/19 07:53	
Toluene-d8 (S)	%	90	70-130	08/07/19 07:53	

LABORATORY CONTROL SAMPLE: 1913888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	43.5	87	70-130	
Ethylbenzene	ug/L	50	50.9	102	80-124	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	43.9	88	54-137	
o-Xylene	ug/L	50	48.3	97	70-130	
Toluene	ug/L	50	51.2	102	80-126	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913889 1913890

Parameter	Units	40192421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.00025 mg/L	50	50	44.8	49.3	90	99	70-130	9	20	
Ethylbenzene	ug/L	<0.00022 mg/L	50	50	47.9	50.2	96	100	80-125	5	20	
m&p-Xylene	ug/L	<0.47	100	100	100	106	100	106	70-130	6	20	
Methyl-tert-butyl ether	ug/L	0.0027J mg/L	50	50	45.6	52.4	86	99	51-145	14	20	
o-Xylene	ug/L	<0.26	50	50	47.8	50.1	96	100	70-130	5	20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: GRACE'S
Pace Project No.: 40192446

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1913889 1913890

Parameter	Units	40192421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.00017 mg/L	50	50	45.8	51.5	92	103	80-131	12	20	
4-Bromofluorobenzene (S)	%						106	102	70-130			
Dibromofluoromethane (S)	%						97	98	70-130			
Toluene-d8 (S)	%						95	97	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: GRACE'S
Pace Project No.: 40192446

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GRACE'S
Pace Project No.: 40192446

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40192446001	**33794**	EPA 8260	329821		
40192446002	**TRIP BLANK**	EPA 8260	329821		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40192446

*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:	715 832 6608
Project Number:	
Project Name:	Grace's
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:	2711 N. Florida Ave Eau Claire, 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
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	33794	8/1		W			X			
002	Trip Blank								* In Shipment Lab added to COC 8/6/19 RG	

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:
	8/5/19	Fed Ex	8/5/19
Fed Ex	8/6/19 0935		8/6/19 0935
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.
40192446

Receipt Temp = 0.1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Meridian Eng Project # 40192446

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A Initial when completed: Date/ Time:

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

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3									1						2.5 / 5 / 10
002																		1															2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

8/6/19 PV

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40192446

Client Name: Meridian E.C.

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

Tracking #: 7889 1331 2909

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 - NA **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: 0.0 8/16/19 PB

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

Person examining contents: Date: 8/16/19 Initials: PB

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1. ✓ CC
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. Time, year 8/16/19 PB
Chain of Custody Relinquished:	☐Yes ☑No ☐N/A	3. time 8/16/19 PB
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. ID only
Trip Blank Present:	☑Yes ☐No ☐N/A	13. In shipment Lab added to COC 8/16/19 PB 8/16/19 SW
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 427		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 8-7-19

APPENDIX C

Nearby Potable Well Logs

WISCONSIN UNIQUE WELL NUMBER **QY116**

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

Property Owner: RUDOLPH, VERN
Telephone Number: - -
Depth 28 FT

Mailing Address: 33810 STATE HWY 21

City: CAMP DOUGLAS | State: WI | Zip Code: 54618

County of Well Location: 42 MONROE
Co Well Permit No: W
Well Completion Date: September 8, 2003

1. Well Location

T=Town C=City V=Village: T of BYRON
Fire#: 33810

Street Address or Road Name and Number: 33810 HWY 21

Subdivision Name | Lot# | Block #

Well Constructor: STEPHEN LANGE | License #: 4553
Facility ID (Public)

Address: LANGE PLUMBING
Public Well Plan Approval#

City: NEW LISBON | State: WI | Zip Code: 53950
Date Of Approval

Hicap Permanent Well # | Common Well #
Specific Capacity: gpm/ft

Gov't Lot **or** SE 1/4 of SE 1/4 of Section 13 T 18 N;R 1 E

Latitude Deg. Min.
Longitude Deg Min.

2. Well Type 2 (See item 12 below)
1=New 2=Replacement 3=Reconstruction
of previous unique well # _____ constructed in _____

Lat/Long Method

Reason for replaced or reconstructed Well?
WELL POINT FAILED

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

3 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
> 2 2. Building Overhang
> 25 3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 2 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
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
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)
	surface	

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 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

Lower Open Bedrock

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__I_	TOPSOIL	0	1
__C_	CLAY	1	25
__S_	SAND	25	28

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
1.3	GALV STEEL	surface	25

Dia.(in.)	Screen type, material & slot size	From	To
1.3	STAINLESS 7 SLOT	25	28

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

9. Static Water Level
10.0 feet B ground surface
A=Above B=Below

10. Pump Test
Pumping level ft. below surface
Pumping at GP Hrs

11. Well Is: 12 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? Y
If no, explain

13. Initials of Well Constructor or Supervisory Driller: SEL
Date Signed: 9/10/03

Initials of Drill Rig Operator (Mandatory unless same as above)
Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 871

WISCONSIN UNIQUE WELL NUMBER
Source: WELL CONSTRUCTION **SJ010**

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 28 FT

Property Owner: RUDOLPH, VERN
Telephone Number: 608 -427 -6538
Mailing Address: 33810 HWY 21
City: CAMP DOUGLAS
State: WI
Zip Code: 54618
County of Well Location: 42 MONROE
Co Well Permit No W
Well Completion Date: June 6, 2005

1. Well Location
T=Town C=City V=Village: T of BYRON
Fire#
Street Address or Road Name and Number: 33810 HWY 21 CAMP DOUGLAS
Subdivision Name
Lot#
Block #
Gov't Lot or SE 1/4 of SE 1/4 of Section 13 T 18 N;R 1 E
Latitude Deg. Min.
Longitude Deg Min.

Well Constructor: STEPHEN LANGE
License #: 4553
Facility ID (Public)
Address: LANGE PLUMBING
Public Well Plan Approval#
City: NEW LISBON
State: WI
Zip Code: 53950
Date Of Approval
Hicap Permanent Well #
Common Well #
Specific Capacity: gpm/ft

2. Well Type 2 (See item 12 below)
1=New 2=Replacement 3=Reconstruction
Lat/Long Method
of previous unique well # _____ constructed in _____
Reason for replaced or reconstructed Well?
PLUGGED POINT

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
2 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
> 2 2. Building Overhang
> 25 3. 1=Septic 2= Holding Tank
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 2 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
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
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)
	surface	

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 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
Lower Open Bedrock

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__I_	TOPSOIL	0	1
__C_	CLAY	1	25
__S_	SAND	25	28

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
1.3	GAL STEEL	surface	25

Dia.(in.)	Screen type, material & slot size	From	To
1.3	STAINLESS STEEL SLOTTED	25	28

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

9. Static Water Level
feet ground surface A=Above B=Below

10. Pump Test
Pumping level 11.0 ft. below surface
Pumping at 7.0 GP M Hrs

11. Well Is: 12 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? Y
If no, explain

13. Initials of Well Constructor or Supervisory Driller: SEL Date Signed: 6/7/05
Initials of Drill Rig Operator (Mandatory unless same as above): JM Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

19816945

Batch 983

WISCONSIN UNIQUE WELL NUMBER **SF949**

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

Property Owner: ST PETERS LUTHERAN CHURCH PARS
Telephone Number: 608 -427-3114

Mailing Address: PO BOX 283

City: CAMP DOUGLAS | State: WI | Zip Code: 54618

County of Well Location: 42 MONROE
Co Well Permit No W:
Well Completion Date: May 25, 2005

Well Constructor: NELSONS PLBG & ELEC INC
License #: 42
Facility ID (Public):

Address: 25269 HWY 12
Public Well Plan Approval#:

City: TOMAH | State: WI | Zip Code: 54660
Date Of Approval:

Hicap Permanent Well #:
Common Well #:
Specific Capacity: gpm/ft

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

Depth 29 FT

1. Well Location

T=Town C=City V=Village: T of BYRON
Fire#: 33458

Street Address or Road Name and Number: STATE HWY 21

Subdivision Name | Lot# | Block #

Gov't Lot or SW 1/4 of SE 1/4 of Section 13 T 18 N;R 1 E

Latitude Deg. Min.
Longitude Deg Min.

2. Well Type 1 (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?

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)

- > 5280 1. Landfill
- 12 2. Building Overhang
- > 45 3. 1=Septic 2= Holding Tank
- > 60 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- 7. Buried Petroleum Tank
- 8. 1 1=Shoreline 2= Swimming Pool
- > 12 9. Downspout/ Yard Hydrant
- 10. Privy
- 13 11. Foundation Drain to Clearwater
- 12. Foundation Drain to Sewer
- > 20 13. Building Drain 1 (1=Cast Iron or Plastic 2=Other)
- > 35 14. Building Sewer 1 (1=Gravity 2=Pressure) 1 (1=Cast Iron or Plastic 2=Other)
- 15. Collector Sewer: ___ units ___ in . diam.
- 15 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)
6.0	surface	29

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation
-- 2. Rotary - Air
-- 3. Rotary - Air and Foam
X -- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ n. dia
-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?
Other

Lower Open Bedrock

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6.0	WHEATLAND STEEL WELD PE 18.97LB A#53	surface	26

Dia.(in.)	Screen type, material & slot size	From	To
5.0	STAINLESS 10 SLOT	26	29

7. Grout or Other Sealing Material

Method MOUNDED WHEN DRIVING

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
#8 BENTONITE	surface		1 S

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__I_	TOPSOIL	0	1
T_S_	BROWN SAND	1	6
T_C_	BROWN CLAY	6	19
T_S_	TAN SAND	19	29

9. Static Water Level
10.0 feet B ground surface (A=Above B=Below)

10. Pump Test
Pumping level 20.0 ft. below surface
Pumping at 10.0 GP M 1.0 Hrs

11. Well Is: 36 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?
If no, explain N/A

13. Initials of Well Constructor or Supervisory Driller: MN — Date Signed: 5/26/05

Initials of Drill Rig Operator (Mandatory unless same as above) — Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

19566023

Batch 974

WISCONSIN UNIQUE WELL NUMBER **SF866**

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

Property Owner: SHENNING, JEFF
Telephone Number: 262 -654-3530
Depth 41 FT

Mailing Address: 33855 EXPEDITION AVE

City: CAMP DOUGLAS | State: WI | Zip Code: 54618

County of Well Location: 42 MONROE
Co Well Permit No: W
Well Completion Date: May 13, 2004

1. Well Location

T=Town C=City V=Village: T of BYRON
Fire#: 33855
Street Address or Road Name and Number:
Subdivision Name | Lot# | Block #

Well Constructor: NELSONS PLBG & ELEC INC
License #: 42
Facility ID (Public):

Address: 25269 HWY 12
Public Well Plan Approval#:

City: TOMAH | State: WI | Zip Code: 54660
Date Of Approval:

Hicap Permanent Well #
Common Well #
Specific Capacity: gpm/ft

Gov't Lot or NE 1/4 of NE 1/4 of Section 24 T 18 N;R 1 E

Latitude Deg. Min.
Longitude Deg Min.

2. Well Type 2 (See item 12 below)
1=New 2=Replacement 3=Reconstruction
Lat/Long Method
of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?
POINT IN BASEMENT

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
9 2. Building Overhang
> 60 3. 1=Septic 2= Holding Tank
> 55 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. 1=Shoreline 2= Swimming Pool
> 9 9. Downspout/ Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
> 12 13. Building Drain 1 (1=Cast Iron or Plastic 2=Other)
> 25 14. Building Sewer 1 (1=Gravity 2=Pressure) 1 (1=Cast Iron or Plastic 2=Other)
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)
6.0	surface	41

Upper Enlarged Drillhole
-- 1. Rotary - Mud Circulation ----------
-- 2. Rotary - Air ----------
-- 3. Rotary - Air and Foam ----------
-- 4. Drill-Through Casing Hammer
-- 5. Reverse Rotary
-- 6. Cable-tool Bit _ n. dia ---------- 60
-- 7. Temp. Outer Casing _ in. dia. _____ depth ft. Removed ?
Other

Lower Open Bedrock

6. Casing Liner Screen Material, Weight, Specification / Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6.0	IPSCO STEEL WELD A53 18.97# PE	surface	38

Dia.(in.)	Screen type, material & slot size	From	To
5.0	STAINLESS STEEL 10 SLOT	38	41

7. Grout or Other Sealing Material

Method GRAVITY

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
KITTY LITTER BENTONITE	surface	38.0	1 S

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__I_	TOPSOIL	0	1
T_C_	BROWN CLAY	1	24
__CS	SANDY CLAY	24	34
Y_S_	YELLOW SAND	34	41

9. Static Water Level
8.0 feet B ground surface (A=Above B=Below)

10. Pump Test
Pumping level 30.0 ft. below surface
Pumping at 15.0 GP M 1.0 Hrs

11. Well Is: 24 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 PUMP INSTALLER TO DO

13. Initials of Well Constructor or Supervisory Driller: LN — Date Signed: 5/17/04

Initials of Drill Rig Operator (Mandatory unless same as above): MN — Date Signed: 5/18/04

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 914

WISCONSIN UNIQUE WELL NUMBER
Source: WELL CONSTRUCTION **NZ223**

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 **42** FT

Property Owner: ANDREWS, QUYNTIN	Telephone Number: 608 -427 -6580	
Mailing Address: 10085 FUNNEL DR		
City: CAMP DOUGLAS	State: WI	Zip Code: 54618
County of Well Location: 42 MONROE	Co Well Permit No W	Well Completion Date: April 12, 2000

1. Well Location

T=Town C=City V=Village: **T** of BYRON

Fire#:

Street Address or Road Name and Number: 10085 FUNNEL DR

Subdivision Name | Lot# | Block #

Gov't Lot **or** **NW** 1/4 of **NE** 1/4 of Section **24** T **18** N;R **1** **E**

Latitude Deg. Min.

Longitude Deg Min.

Well Constructor: BRIAN HEEG	License #: 355	Facility ID (Public):
Address: 5069 E CTY F		Public Well Plan Approval#:
City: AUBURNDALE	State: WI Zip Code: 54412	Date Of Approval:
Hicap Permanent Well #	Common Well #	Specific Capacity: gpm/ft

2. Well Type **2** (See item 12 below)

1=New 2=Replacement 3=Reconstruction

Lat/Long Method

of previous unique well # _____ constructed in _____

Reason for replaced or reconstructed Well?
SAND POINT PLUGGED

3. Well Serves **P**
M=Munic O=OTM N=NonCom P=Private Z=Other X=NonPot A=Anode L=Loop H=Drillhole

# of homes and or **HOME**
(eg: barn, restaurant, church, school, industry, etc.)

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
35 2. Building Overhang
70 3. 1=Septic 2= Holding Tank
100 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
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
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	17
6.0	17	42

Upper Enlarged Drillhole / Lower Open Bedrock

-- 1. Rotary - Mud Circulation
X -- 2. Rotary - Air
-- 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 ?
X Other PERCUSSION

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)		From (ft.)	To (ft.)
6.0	ST STEEL ASTM A53B IPSCO USA WELDED JOINT	surface	39

Dia.(in.)	Screen type, material & slot size	From	To
5.0	10 SLOT STAINLESS	39	42

7. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
__C_	CLAY	0	17
__S_	SAND	17	42

9. Static Water Level
17.0 feet **B** ground surface
A=Above B=Below

10. Pump Test
Pumping level **35.0** ft. below surface
Pumping at **15.0** GP M **1.5** Hrs

11. Well Is: 12 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? **Y**
If no, explain

13. Initials of Well Constructor or Supervisory Driller **BH** Date Signed **4/12/00**

Initials of Drill Rig Operator (Mandatory unless same as above) Date Signed

Additonal Comments?
Owner Sent Label? Y
Variance Issued?
More Geology?

Batch 658

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DC 226

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

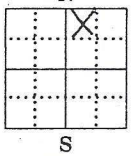
SEP 12 1991

Property Owner: Don's Plumbing for Baun — Telephone Number: ( )
Mailing Address: Rt. 3 - Box 13B
City: Tomah — State: WI — Zip Code: 54660
County of Well Location: Monroe — County Well Location Permit No.: W ___ — Well Completion Date: 08/09/91 (M M D D Y Y)

32 / 42

Well Constructor (Business Name): Robert Kush & Sons — Registration #: 5837
Address: Rt. 4 Box 190
City: Black River Falls, WI — State — Zip Code: 54615

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of Byron
Fire # (if available)
Grid or Street Address or Road Name and Number (if available): 33rd Dr.
Subdivision Name — Lot # — Block #
Gov't Lot # ___ or NW ¼ of NE ¼ of Section 24 ; T 18 N; R 1 ☒ E ☐ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ___ constructed in 19 ___.
Reason for new, replaced or reconstructed well? New home

4. Well serves 1 # of homes and/or Home
(ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ___

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

NA	1. Landfill	NA	9. Downspout/Yard Hydrant
18	2. Building Overhang	NA	10. Privy
72	3. Septic or Holding Tank	NA	11. Foundation Drain to Clearwater
87	4. Sewage Absorption Unit	NA	12. Foundation Drain to Sewer
NA	5. Nonconforming Pit	NA	13. Building Drain ☐ Cast Iron or Plastic ☐ Other
NA	6. Buried Home Heating Oil Tank	42	14. Building Sewer ☐ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
NA	7. Buried Petroleum Tank	NA	15. Collector or Street Sewer
NA	8. Shoreline/Swimming Pool	NA	16. Clearwater Sump
NA	17. Wastewater Sump		
NA	18. Paved Animal Barn Pen		
NA	19. Animal Yard or Shelter		
NA	20. Silo — Type ___		
NA	21. Barn Gutter		
NA	22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other		
NA	23. Other Manure Storage ___		
NA	24. Other NR 112 Waste Source ___		

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
6	surface	43

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☒ 5. Cable-tool Bit 6 in. dia.
☐ 6. Temp. Outer Casing ___ in. dia. Removed? ☐ Yes ☐ No If no, explain ___
☐ 7. Other ___

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	Black Plain end - Steel	surface	41
	ASTM A53-B 18.97		
	Welded 2660 PSI		
	Sawhill USA		
Dia. (in.)	screen type and material	From	To
6	stainless w/ Neoprene pack.	40	43

8. Grout or Other Sealing Material

Method / Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	surface		

9. Geology — Type, Caving/Noncaving, Color, Hardness, Etc.

DNR USE ONLY	Type, Caving/Noncaving, Color, Hardness, Etc.	From (ft.)	To (ft.)
S	Sand	surface	43

10. Static Water Level
___ ft. above ground level
12 ft. below ground surface

11. Pump Test
Pumping Level 18 ft. below surface
Pumping at 8 GPM for 6 hours

12. Well Is:
12 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain NONE

14. Signature of Point Driver or Registered Driller: Jon A Kush — Date Signed: JAR 9/3/91
Signature of Drill Rig Operator: Jon A Kush — Date Signed: JAR 9/3/91

Make additional comments on reverse side about geology, etc.

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

122

WISCONSIN UNIQUE WELL NUMBER **UH571**

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

Property Owner: LOVELESS, PAT | Telephone Number: - -

Mailing Address: 22956 ELGIN AVE

City: TOMAH | State: WI | Zip Code: 54660

County of Well Location: 42 MONROE | Co Well Permit No: W | Well Completion Date: July 24, 2007

Well Constructor: JAKE J SCHAITEL | License #: 3822 | Facility ID (Public):

Address: TRI COUNTY WELL DRILLING | Public Well Plan Approval#:

City: SPARTA | State: WI | Zip Code: 54656 | Date Of Approval:

Hicap Permanent Well # | Common Well # | Specific Capacity: gpm/ft

1. Well Location

T=Town C=City V=Village: T of BYRON | Fire#:

Street Address or Road Name and Number: CRESENT RD

Subdivision Name | Lot# | Block #

Depth 42 FT

Gov't Lot or SW 1/4 of NE 1/4 of Section 24 T 18 N;R 1 E

Latitude Deg. Min.

Longitude Deg Min.

2. Well Type 1 (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?

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?

Well located in floodplain? N

Distance in feet from well to nearest: (including proposed)

1. Landfill
13 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
14. Building Sewer 1=Gravity 2=Pressure 1=Cast Iron or Plastic 2=Other
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)
6.0	surface	42

Upper Enlarged Drillhole — Lower Open Bedrock

-- 1. Rotary - Mud Circulation
X -- 2. Rotary - Air
-- 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

6. Casing Liner Screen Material, Weight, Specification Manufacturer & Method of Assembly

Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly	From (ft.)	To (ft.)
6.0	NEW P.E. BLACK STEEL ASTM A53 18.95 28 WALL USA WHEATLAND	surface	38

Dia.(in.)	Screen type, material & slot size	From	To
4.0	STAINLESS STEEL WELD 12 SLOT	38	42

7. Grout or Other Sealing Material

Method BENENTIE CRUMBLES

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
DRIVE THRU	surface	3.0	1 S

8. Geology

Geology Codes	Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
_S_	SAND	0	42

9. Static Water Level

11.0 feet B ground surface (A=Above B=Below)

10. Pump Test

Pumping level 37.0 ft. below surface

Pumping at 12.0 GP M 1.0 Hrs

11. Well Is: 16 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? Y

If no, explain

13. Initials of Well Constructor or Supervisory Driller JS | Date Signed 7/24/07

Initials of Drill Rig Operator (Mandatory unless same as above) | Date Signed

Additonal Comments? | Variance Issued?

Owner Sent Label? Y | More Geology?

26663679

Batch 1098

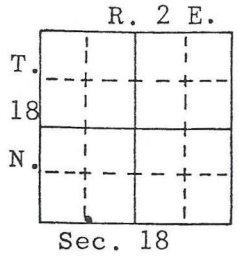
UNIVERSITY OF WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY
3817 Mineral Point Rd., Madison, Wisconsin 53705

Geologic Log No. Q203-JU-21

Well name James Brownell Test Hole #55
Town of Cutler
Owner....
Address..

Driller.. Wis. Geological & Natural History Survey
Engineer.

County: Juneau
Completed...6/21/84
Field check.WG&NHS-J. Brownell
Altitude....911' ETM
Use.....stratigraphy
Static w.l..~2'
Spec. cap...



Location: SW¼, SW¼, SW¼, SE¼, SW¼, Sec. 18, T18N, R2E
Quad. Shennington 7½'

Drill Hole						Casing & Liner Pipe or Curbing							
Dia.	from	to	Dia.	from	to	Dia.	Wgt.& Kind	from	to	Dia.	Wgt.& Kind	from	to
?	0	53'					none						

Grout	from	to

Drilling method: auger
Samples from 10' to 40' Rec'd: 9/8/86

Studied by: Kathleen Massie-Ferch

Published: 12/21/89

Formations: Big Flats Formation

Remarks: Test hole was located on the northeast corner of the intersection of 2nd Avenue & 22nd St.
Driller reports very poorly consolidated greenish quartz sandstone from 25' to 53'.

LOG OF WELL:

	Depths	Graphic Section	Rock Type	Color	Grain Size Mode	Grain Size Range	Miscellaneous Characteristics
BIG FLATS	at 10		Clay	Brown	—	—	Calcareous. Much silt. Little sand.
	at 20		Sand	Strg bn	M	Vfn/VC	2-3% non-quartz grains. Mch qtz st. Tr cl,F-lim cem(remnant).
	at 30		Sand	Strg bn	M	Vfn/VC	2-3% non-qtz grains. Mch qtz st. Tr cl,F-lim cem(remnant).
	at 40		Sand	Strg bn	Fn/M	Vfn/VC	4-5% non-qtz grains. Mch qtz st. Tr clay,F-lim cem(remnant), mica.
	53'						
				END OF LOG			