



Meridian Environmental Consulting, LLC

February 28, 2019

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutcliffe Avenue
Rhineland, Wisconsin 54501-3349

Subject: **PROGRESS REPORT:**

- **Results of 2018 Ground Water Sampling**
- **Hydraulic Conductivity Testing**
- **Recommendations**

Webster Pig Farm
Gilman, Wisconsin
PECFA No. 54433-9429-94
DNR BRRTS Nos. 03-61-000650
Meridian No. 05F784

Dear Carrie:

This letter report presents the results of recent work at the site including:

- Ground Water Sampling (quarterly – 2018)
- Hydraulic Conductivity Testing (slug tests – MW-)

Based on the results of this work, we recommend:

- Abandon the former water well at 16653 CTH M
- Assess vapor intrusion potential by installing a vapor port in the basement of the residence located at 16653 CTH M
- Sample the monitoring wells twice during vapor intrusion sampling
- Prepare Letter Report

A Change Order for this work will be provided upon request.

The remainder of this letter report summarizes the work completed and our recommendations.

RECENT WORK

This letter report provides a summary of recent work and references earlier work described in file reports. The reader is referred to file reports for further information regarding the site.

Quarterly Ground Water Sampling

The monitoring well network and the private water supply at the residence known as 16653 CTH M (former Diamond residence) was sampled quarterly during 2018. The laboratory reports are provided in Appendix A and summarized in Table 1. Figure 1 illustrates the monitoring well network.

Ground water levels were measured during each sampling event; the results are summarized in Table 2.

Natural attenuation parameters were measured in the field; the results are summarized in Table 3.

Hydraulic Conductivity Testing

The hydraulic conductivity at the site was measured by conducting slug tests October 5, 2018. Appendix B contains the results of the slug tests and subsequent analysis. Table 4 summarizes the results of the hydraulic conductivity testing.

DATA EVALUATION

Hydrogeology

Figure 2 is a cross-section based on the soil boring and potable well logs. About 50 feet of glacial sediments overly granite bedrock. The glacial sediments consist of approximately 30 – 40 feet of silty, fine-grained sand with sand and clay lenses overlying a coarser sand layer resting on top of granite bedrock.

Ground water is found within 10 feet of the land surface. Based on the most recent measurements (December 15, 2018), ground water flow is southwesterly (Figures 3a & 3b).

The horizontal hydraulic gradient is relatively flat in the monitoring wells and in the piezometers. The recent water level data from the well nests (e.g., MW-200/PZ-200, etc) did not measure a significant vertical gradient.

The hydraulic conductivity tests indicate the deeper piezometers are screened in more permeable sediments whereas the shallow water table wells are screened in lower permeability sediments.

Extent of Impacted Soil

All accessible impacted soil has been removed by the remedial excavation(s). There is a limited volume of impacted soil in the former pump island area between the road edge and the buried telephone wire. We recommend this impacted soil be left in place and documented with GIS Registry.

Extent of Impacted Ground Water

Figure 4 illustrates the estimated horizontal extent of impacted ground water. The estimated vertical extent of impacted ground water is illustrated on Figure 2.

The ground water sampling data indicates a plume of impacted ground water extends from the property known as W16640 CTH M (aka former "Webster Pig Farm")(Figure 1) southwest beneath the property known as W16653 CTH M (former Diamond residence). The downgradient extent appears to be near MW-400/P-400 nest based on the concentrations in Table 1. Appendix C contains graphs which illustrate the concentrations of benzene and naphthalene over time in PZ-100, PZ-400, MW-600, PZ-600.

The natural attenuation data (Table 2) supports this interpreted extent. For example, the dissolved oxygen concentrations in MW-400 tend to be lower suggesting biological depletion (of dissolved oxygen).

The hydraulic conductivity tests indicate the deeper piezometers are screened in more permeable sediments whereas the shallow water table wells are screened in lower permeability sediments. This affects the contaminant transport as the contaminant plume migrated at depth beneath the property known as W16653 CTH M (former Diamond residence).

This can be illustrated by using the simple relationship

$$V = Ki/n$$

Where

V = average linear ground water flow velocity

K = hydraulic conductivity

I = horizontal hydraulic gradient

N = porosity (use typical value of 0.3)

Using this relationship and the ground water measurements from December 15, 2018 and the average hydraulic conductivity measurements (Table 4) for each geologic unit, the average linear ground water flow velocity in the shallow sediments and the deeper sediments is estimated as

MW-600 to MW-900: $V = 6.1 \text{ ft/yr}$

PZ-600 to PZ-900: $V = 18.48 \text{ ft/yr}$

This simple analysis illustrates the ground water flow rate is faster at depth and explains the downgradient transport of impacted ground water in the more permeable sediments at depth.

Vapor Intrusion Evaluation

The potential for vapors from the petroleum contaminated soil and ground water was evaluated by completing an initial evaluation of screening criteria and potential vapor receptors. This evaluation is summarized below. Refer to Figure 1 for reference.

Potential vapor receptors

- Source Property (W16640 CTH M)

There are no buildings or other structures on this property. The former building structure has been demolished.

- Town Hall

There is a building on this property. It is located over 150 feet from the contaminated soil and ground water and is not considered a potential vapor receptor.

- Residence at W16653 CTH M (former Diamond residence)

The house at this property has a basement (depth is approximately 5 feet below grade). The house is occupied by a family with children.

The house is located over the ground water contamination plume and is considered a potential vapor receptor.

There is a garage located along the south property line. It is unknown if the garage has a cement floor or dirt floor. The garage is in older condition. The garage is located away from the contaminated soil and ground water and is not considered a potential vapor receptor.

The septic system is located south of the house and is not considered a potential vapor receptor.

Vapor Intrusion Screening Criteria Evaluation – House at W16653 CTH M

- *Free-phase product that has the potential for off-gassing vapors underlies a building or is within 30 feet, horizontally or vertically, of a building foundation*

No free-product has been measured at this site.

- *Petroleum contaminated soils with the potential for off-gassing vapors are within 5 feet or less of a building foundation*

No unsaturated petroleum contaminated soils is within 5 feet of any building foundation.

- *Ground water contaminated with petroleum product above NRI40 PAL is entering a building or in contact with the building's foundation, or is in water intercepted by the building's foundation drain system, including sumps.*

No ground water with PAL exceedances is in contact with any building foundations.

- *Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (sewer lines, fractured bedrock, etc.) into the building.*

The ground water contaminant plume is interpreted to extend beneath the house at W16653. The impacts appear to be at depth in PZ-100.

Soil Vapor Sampling

Based on the screening criteria, there is a potential for petroleum soil vapors at the house located at W16653. Therefore, we recommend a vapor sampling port be installed through the floor in the basement of the house and at least two air samples (summer & winter) be collected.

A PID and LEL meter will be used to measure the soil vapor for LEL, VOCs, and oxygen concentration. A Summa canister (6 liter with 30 minute flow valve) will be connected to the vapor port using PVC tubing and a soil vapor sample collected. The Summa canister will then be shipped to the lab (Pace) and the soil vapor air sample analyzed for PVOC+Naphthalene using method TO-15.

CONCLUSIONS AND RECOMMENDATIONS

The replacement well is providing a good water supply for the property known as W16653 CTH M (former Diamond residence). The old water supply well should be abandoned per NR141.

We recommend potential vapor intrusion impacts be tested in the house located at W16653 CTH M by installing a vapor pin/port through the floor of the basement. Two samples will be collected (summer and winter).

We recommend the monitoring wells and house water supply be sampled (twice) during the vapor port testing.

A Change Order for this work will be provided upon request.

Please contact me with any comments or questions.

Sincerely,

MERIDIAN ENVIRONMENTAL CONSULTING, LLC



Kenneth Shimko, PG
Project Manager

C: Gary Gilbert - PE

TABLES

Table 1: Ground Water Analytical
 Webster Pig Farm
 Meridian No. 05F784
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Well	Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4 - TMB	1,3,5 - TMB	Total TMBs	MTBE	Naphthalene
NR140 ES		5	700	800	2000	-	-	480	60	100
NR140 PAL		0.5	140	160	400	-	-	96	12	10
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	UG/L	ug/l
MW-100	Installed December 6, 1996									
	1/9/1997	<.2	<.3	<.2	<1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	<.4	<.5	<.4	<1.2	<.5	<.5	<.5	<.1	-
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	August 2000	Well Abandoned								
MW-200	Installed December 5, 1996									
	1/9/1997	<.2	<.3	<.2	<1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	13	1.1	11	3.4	<.5	<.5	<.5	<.1	-
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	12/20/2006	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	10/23/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	1/9/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
MW-300	Installed December 5, 1996									
	1/9/1997	<.2	<.3	<.2	<1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	<.4	<.5	<.4	<1.2	<.5	<.5	<.5	<.1	-
	6/20/1997	<.1	<.1	<.1	0.2	-	-	-	-	-
	12/20/2006	<.2	<.5	<.2	<.5	<.2	<.2	<.2	33	<.25
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
MW-400	Installed December 4, 1996									
	1/9/1997	<.2	<.3	<.2	<1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	0.8	<.5	<.4	1.2	<.5	0.7	0.7	0.9	-
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	12/20/2006	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	0.67
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	10/23/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	1/9/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42

12 BOLD - Concentration exceeds NR140 Enforcement Standard (ES)
 12 *Italic* - Concentration exceeds NR140 Preventative Action Limit (PAL)

Table 1: Ground Water Analytical
 Webster Pig Farm
 Meridian No. 05F784
 Page 2 of 5

Well	Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4 - TMB	1,3,5 - TMB	Total TMBs	MTBE	Naphthalene
NR140 ES		5	700	800	2000	-	-	480	60	100
NR140 PAL		<i>0.5</i>	<i>140</i>	<i>160</i>	<i>400</i>			<i>96</i>	<i>12</i>	<i>10</i>
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	UG/L	ug/l
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
MW-500	Installed December 6, 1996									
	1/9/1997	<.2	<.3	0.3	<.1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	<.4	<.5	<.4	<.1.2	<.5	<.5	<.5	<.1	-
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	12/20/2006	4	<.5	<.2	<.5	<.2	<.2	<.2	<.5	0.31
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<.1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<.1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<.1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<.1.2	<.42	<.42	<.42	<.48	<.42
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	3/29/2018	<.4	<.39	<.39	<.1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
MW-600	Installed April 14, 1997									
	4/18/1997	3090	<i>554</i>	2900	2066	293	82	375	<3.6	130
	6/20/1997	1200	1330	8290	6730	-	-	-	-	-
	5/6/2008	2100	1100	1500	3400	950	270	1220	<20	360
	7/29/2008	790	670	1000	2600	930	330	1260	<23	390
	8/29/2012	111	<i>118</i>	117	354	196	170	366	6.2	130
	8/8/2014	181	237	179	446	180	91.7	271.7	7.8	154
	11/18/2014	107	135	67.3	306	127	83.5	210.5	12.4	102
	9/9/2015	71	100	46.5	292	116	120	236	8.4	107
	12/9/2015	75.7	93.5	39.3	259	74.2	65.2	139.4	3	121
	3/31/2016	85.6	144	87.5	482	122	181	303	5.2	195
	6/21/2016	55.7	85.5	61.8	372	81	137	218	6.1	162
	4/28/2017	22.1	71.1	52.7	399	41.7	116	157.7	8.5	179
	10/30/2017	63.2	505	9.3	860	375	201	576	9.3	334
	3/29/2018	74.1	584	180	891	318	158	476	12.8	315
	6/22/2018	27.5	351	151	676	213	133	346	7.1	247
	9/26/2018	4.6J	47.1	17	188	47	72.8	119.8	3.3J	83.2
	12/5/2018	5	34.3	12.6	175	28.9	60.8	89.7	1.9J	89
MW-700	Installed April 15, 1997									
	4/18/1997	<.3	<.4	1.2	<.1.4	<.5	<.4	<.5	<.2	<.4
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	12/20/2006	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	10/23/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<.1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	Not Sampled								
	12/9/2015	Not Sampled								
	4/28/2017	Not Sampled								
	10/30/2017	Not Sampled								
MW-800	Installed June 10, 1997 (this well is now sampled as part of Donald Store work)									
	6/20/1997	<.2	<.4	<.5	<.1.4	<.5	<.4	<.5	<.2	<.4
	4/11/2007	<.2	<.5	<.2	<.5	<.5	<.4	<.5	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	10/23/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<.1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	Not Sampled								
	12/9/2015	Not Sampled								
	4/28/2017	Well sampled as part of Donald Store site								

12 BOLD - Concentration exceeds NR140 Enforcement Standard (ES)
 12 Italic - Concentration exceeds NR140 Preventative Action Limit (PAL)

Table 1: Ground Water Analytical
 Webster Pig Farm
 Meridian No. 05F784
 Page 3 of 5

Well	Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4 - TMB	1,3,5 - TMB	Total TMBs	MTBE	Naphthalene
NR140 ES		5	700	800	2000	-	-	480	60	100
NR140 PAL		0.5	140	160	400			96	12	10
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	UG/L	ug/l
	10/30/2017	Well sampled as part of Donald Store site								
MW-900	Installed June 10, 1997									
	6/20/1997	<.2	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	12/20/2006	<.8	<.2	<.8	<.2	<.8	<.8	<.8	<.2	<.1
	4/11/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
PZ-100	Installed December 18, 1996									
	1/9/1997	3840	<7.4	169	809	95	34	129	<3.1	38
	4/18/1997	3500	<9.8	118	430	43	12	55	<4.5	25
	6/20/1997	3660	<.1	97	410	-	-	-	-	-
	12/20/2006	3300	<.2	17	50	22	3.8	25.8	<.2	28
	4/11/2007	<i>0.64</i>	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/25/2007	1000	21	9	16	9.8	12	21.8	<10	27
	10/23/2007	7.8	<.2	<.8	<.2	<.8	<.8	<.8	<.2	<.1
	1/9/2008	330	<.5	5.7	10	2.6	<.2	2.6	<.5	5.6
	5/6/2008	280	<.5	6.2	5.9	2.2	0.5	2.7	<.5	6.1
	7/29/2008	1100	0	14	12	1.5	0.4	1.9	<4.6	<.5
	8/29/2012	849	<2.1	4.7	<6.3	<2.2	<.2	<2.2	<1.9	2.3
	8/8/2014	1.3	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	11/18/2014	6.5	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	9/9/2015	6380	<19.8	52.7	<62.4	<20.9	<20.8	<20.9	<24.2	123
	12/9/2015	7810	<19.6	56.4	<62.4	<20.9	<20.8	<20.9	<24.2	71.2
	3/31/2016	5470	<19.6	30.7	<62.4	<20.9	<20.8	<20.9	<24.2	<21.2
	6/21/2016	4100	<15.7	29.7	<49.9	<16.7	<16.6	<16.7	<19.4	<17
	4/28/2017	2350	<9.8	27.3	<31.2	<10.4	<10.4	<10.4	<12.1	<10.6
	10/30/2017	122	<.79	1.8J	<2.5	<.84	<.83	<.84	<.97	2.3
	3/29/2018	1510	<.39	22.5	<12.5	<4.2	<4.2	<4.2	<4.8	6.1J
	6/22/2018	2680	<8.2	46	26.3J	<8.6	<8.2	<16.8	<8	44.9
	9/26/2018	3220	<16.4	72.1J	51.0J	<17.1	<16.4	<33.5	<16	73.9J
	12/5/2018	2710	<8.2	65	56.9J	<8.6	<8.2	<16.8	<8	82.8
PZ-200	Installed December 17, 1996									
	1/9/1997	<i>0.5</i>	<.3	0.5	<.1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	0.7
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	0.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
PZ-300	Installed December 17, 1996									
	1/9/1997	12	<.3	1.9	<.1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	6/20/1997	5.3	<.1	<.1	<.2	-	-	-	-	-
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	24	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	21	<.25

12 BOLD - Concentration exceeds NR140 Enforcement Standard (ES)
 12 Italic - Concentration exceeds NR140 Preventative Action Limit (PAL)

Table 1: Ground Water Analytical
 Webster Pig Farm
 Meridian No. 05F784
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Well	Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4 - TMB	1,3,5 - TMB	Total TMBs	MTBE	Naphthalene
NR140 ES		5	700	800	2000	-	-	480	60	100
NR140 PAL		<i>0.5</i>	<i>140</i>	<i>160</i>	<i>400</i>			<i>96</i>	<i>12</i>	<i>10</i>
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	UG/L	ug/l
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	1.6	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	0.57	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	0.67	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
PZ-400	Installed December 3, 1996									
	1/9/1997	<.2	<.3	1.1	<1	<.4	<.3	<.4	<.1	<.4
	4/18/1997	<.3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	7.6	<.41	0.93	<1.3	<.43	<.4	<.43	<.38	<.4
	8/8/2014	0.5	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	11/18/2014	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	0.92	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	3.3	0.5	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	28.6	<.39	.79J	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	3	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	6/22/2018	3	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
PZ-600	Installed April 14, 1997									
	4/18/1997	<.3	<.4	<.5	<1.4	<.5	<.4	<.4	<.2	<.4
	6/20/1997	114	<.1	2.1	12.4	-	-	-	-	-
	5/6/2008	6300	37	200	920	160	46	206	<10	40
	7/29/2008	520	17	60	220	60	18	78	<2.3	17
	8/29/2012	175	126	223	489	177	87.1	264.1	18	156
	8/8/2014	190	156	323	583	217	137	354	<2.4	198
	11/18/2014	6.1	<.39	3.8	7.5	1.8	0.87	2.67	<.48	2.7
	9/9/2015	98.2	131	230	346	129	120	249	16.6	200
	12/9/2015	110	133	269	417	126	131	257	<1.9	203
	3/31/2016	240	32.7	290	395	93.6	124	217.6	<2.4	104
	6/21/2016	434	104	384	534	172	158	330	<4.8	232
	4/28/2017	215	5.9	102	68.4	11.4	15.6	27	<.48	10
	10/30/2017	544	98.8	241	403	128	136	264	12.5	204
	3/29/2018	434	97.2	146	167	30.5	118	148.5	<2.4	223
	6/22/2018	349	102	116	194	48.1	119	167.1	<1.3	161
	9/26/2018	68.7	25.4	18.3	37.5	9.7	31.3	41	1.9	51.4
	12/5/2018	314	99.1	121	195	46.2	140	186.2	10.9	273
PZ-700	Installed April 15, 1997									
	4/18/1997	<.3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	6/20/1997	<.1	<.1	<.1	<.2	-	-	-	-	-
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	Not Sampled								
	12/9/2015	Not Sampled								
	4/28/2017	Not Sampled								
	10/30/2017	Not Sampled								
PZ-800	Installed June 10, 1997 (this well is now sampled as part of Donald Store work)									
	6/20/1997	0.3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	Not Sampled								
	12/9/2015	Not Sampled								
	4/28/2017	Well sampled as part of Donald Store site								
	10/30/2017	Well sampled as part of Donald Store site								

12 BOLD - Concentration exceeds NR140 Enforcement Standard (ES)
 12 Italic - Concentration exceeds NR140 Preventative Action Limit (PAL)

Table 1: Ground Water Analytical
 Webster Pig Farm
 Meridian No. 05F784
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Well	Date	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4 - TMB	1,3,5 - TMB	Total TMBs	MTBE	Naphthalene
NR140 ES		5	700	800	2000	-	-	480	60	100
NR140 PAL		<i>0.5</i>	<i>140</i>	<i>160</i>	<i>400</i>			<i>96</i>	<i>12</i>	<i>10</i>
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	UG/L	ug/l
PZ-900	Installed June 11, 1997									
	6/20/1997	1.3	<.4	<.5	<1.4	<.5	<.4	<.5	<.2	<.4
	5/6/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.25	<.22	<.25	<.39	<.25	<.19	<.25	<.23	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
Krizan (fka Ruth Diamond property) (W16653 CTH M)(installed 1998)										
	7/25/2007	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	1/9/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	7/29/2008	<.2	<.5	<.2	<.5	<.2	<.2	<.2	<.5	<.25
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
	8/8/2014	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	11/18/2014	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	9/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	12/9/2015	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/31/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/21/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
Replacement Well Installed October 2016										
	10/7/2016	<.5	<.5	<.5	<1	<.5	<.5	<1	<.17	<2.5
	10/8/2016	<.5	<.5	<.5	<1	<.5	<.5	<1	<.17	<2.5
	1/24/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	4/28/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	7/19/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	10/30/2017	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	3/29/2018	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	6/22/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	9/26/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
	12/5/2018	<.31	<.33	<.49	<.97	<.34	<.33	<.67	<.32	<.51
Pig Farm well (grab sample from top of water column due to pipe in well)										
	8/8/2014	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
	11/18/2014	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
(yield test)	2/16/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
Old Church Well										
	8/29/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
(yield test)	2/16/2016	<.4	<.39	.98J	<1.2	<.42	<.42	<.42	<.48	<.42
Town Hall well (outside faucet)										
	10/26/2012	<.39	<.41	<.42	<1.3	<.43	<.4	<.43	<.38	<.4
(yield test)	2/16/2016	<.4	<.39	<.39	<1.2	<.42	<.42	<.42	<.48	<.42
T-1										
	Installed 10/18/12									
	10/26/2012	6.1	322	<2.1	1130	654	205	859	18.4	168
	Abandoned 8/4/14 due to excavation									
T-2										
	Installed 10/18/12									
	10/26/2012	2990	1740	5820	6950	875	257	1132	38	349
	Abandoned 8/4/14 due to excavation									
T-3										
	Installed 10/18/12									
	10/26/2012	10.2	<.41	1.6	<1.3	<.43	0.85	0.85	<.38	4

12 BOLD - Concentration exceeds NR140 Enforcement Standard (ES)
 12 Italic - Concentration exceeds NR140 Preventative Action Limit (PAL)

Table 2: Ground Water Elevations
 Webster Pig Farm
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(MW-100 abandoned)

PZ-100			MW-200			PZ-200		
Surface Elevation (ft)		1201.5	Surface Elevation (ft)		1200.5	Surface Elevation (ft)		1200.5
Top of Casing elevation (ft)		1201.33	Top of Casing elevation (ft)		1200.3	Top of Casing elevation (ft)		1200.34
Top of Screen Elevation (ft)*		1171.5	Top of Screen Elevation (ft)*		1193.5	Top of Screen Elevation (ft)*		1171.5
Bottom of Screen Elevation (ft)		1166.5	Bottom of Screen Elevation (ft)		1183.5	Bottom of Screen Elevation (ft)		1166.5
Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch
Installed		12/18/1996	Installed		12/5/1996	Installed		12/17/1996
Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)
8/29/2012	12.31	1189.02	8/29/2012	11.38	1188.92	8/29/2012	11.44	1188.90
8/8/2014	9.55	1191.78	8/8/2014	NM	NM	8/8/2014	NM	NM
11/18/2014	8.73	1192.60	11/18/2014	NM	NM	11/18/2014	NM	NM
9/9/2015	9.96	1191.37	9/9/2015	9.97	1190.33	9/9/2015	9.03	1191.31
12/9/2015	9.52	1191.81	12/9/2015	6.93	1193.37	12/9/2015	6.98	1193.36
3/31/2016	8.83	1192.50	3/31/2016	5.9	1194.40	3/31/2016	5.97	1194.37
6/21/2016	7.95	1193.38	6/21/2016	6.89	1193.41	6/21/2016	7.01	1193.33
4/28/2017	5.96	1195.37	4/28/2017	5.06	1195.24	4/28/2017	5.15	1195.19
10/30/2017	9.7	1191.63	10/30/2017	8.11	1192.19	10/30/2017	8.14	1192.20
3/29/2018	9.43	1191.90	3/29/2018	10.29	1190.01	3/29/2018	10.07	1190.27
6/22/2018	9.1	1192.23	6/22/2018	7.45	1192.85	6/22/2018	7.45	1192.89
9/26/2018	9.9	1191.43	9/26/2018	8.78	1191.52	9/26/2018	8.85	1191.49
12/5/2018	8.68	1192.65	12/5/2018	7.68	1192.62	12/5/2018	7.75	1192.59

MW-300			PZ-300			MW-400			PZ-400		
Surface Elevation (ft)		1200.75	Surface Elevation (ft)		1200.5	Surface Elevation (ft)		1200	Surface Elevation (ft)		1200
Top of Casing elevation (ft)		1200.59	Top of Casing elevation (ft)		1200.45	Top of Casing elevation (ft)		1199.78	Top of Casing elevation (ft)		1199.89
Top of Screen Elevation (ft)*		1194.75	Top of Screen Elevation (ft)*		1170.1	Top of Screen Elevation (ft)*		1195	Top of Screen Elevation (ft)*		1172.5
Bottom of Screen Elevation (ft)		1184.75	Bottom of Screen Elevation (ft)		1165.1	Bottom of Screen Elevation (ft)		1185	Bottom of Screen Elevation (ft)		1167.5
Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch
Installed		12/5/1996	Installed		12/17/1996	Installed		12/4/1996	Installed		12/3/1996
Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)
8/29/2012	11.93	1188.66	8/29/2012	11.83	1188.62	8/29/2012	11.23	1188.55	8/29/2012	11.28	1188.61
8/8/2014	NM	NM	8/8/2014	NM	NM	8/8/2014	NM	NM	8/8/2014	8.61	1191.28
11/18/2014	NM	NM	11/18/2014	NM	NM	11/18/2014	NM	NM	11/18/2014	7.88	1192.01
9/9/2015	9.6	1190.99	9/9/2015	9.47	1190.98	9/9/2015	9.11	1190.67	9/9/2015	9.18	1190.71
12/9/2015	7.38	1193.21	12/9/2015	7.23	1193.22	12/9/2015	7.23	1192.55	12/9/2015	7.3	1192.59
3/31/2016	6.43	1194.16	3/31/2016	6.03	1194.42	3/31/2016	5.74	1194.04	3/31/2016	5.75	1194.14
6/21/2016	7.57	1193.02	6/21/2016	7.41	1193.04	6/21/2016	7.11	1192.67	6/21/2016	7.22	1192.67
4/28/2017	5.89	1194.70	4/28/2017	5.61	1194.84	4/28/2017	5.21	1194.57	4/28/2017	5.06	1194.83
10/30/2017	8.73	1191.86	10/30/2017	8.45	1192.00	10/30/2017	8.39	1191.39	10/30/2017	8.45	1191.44
3/29/2018	11	1189.59	3/29/2018	10.74	1189.71	3/29/2018	10.52	1189.26	3/29/2018	10.59	1189.30
6/22/2018	8.17	1192.42	6/22/2018	7.91	1192.54	6/22/2018	8.04	1191.74	6/22/2018	8.08	1191.81
9/26/2018	9.59	1191.00	9/26/2018	9.37	1191.08	9/26/2018	9.2	1190.58	9/26/2018	9.28	1190.61
12/5/2018	8.44	1192.15	12/5/2018	8.25	1192.20	12/5/2018	7.84	1191.94	12/5/2018	7.93	1191.96

Table 2: Ground Water Elevations
 Webster Pig Farm
 Page 2 of 2

MW-500			MW-600			PZ-600		
Surface Elevation (ft)		1201	Surface Elevation (ft)		1202	Surface Elevation (ft)		1201.75
Top of Casing elevation (ft)		1200.96	Top of Casing elevation (ft)		1201.96	Top of Casing elevation (ft)		1201.69
Top of Screen Elevation (ft)*		1196	Top of Screen Elevation (ft)*		1195.5	Top of Screen Elevation (ft)*		1170.75
Bottom of Screen Elevation (ft)		1186	Bottom of Screen Elevation (ft)		1185.5	Bottom of Screen Elevation (ft)		1165.75
Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch
Installed		12/6/1996	Installed		4/14/1997	Installed		4/14/1997
Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)
8/29/2012	12	1188.96	8/29/2012	12.57	1189.39	8/29/2012	12.34	1189.35
8/8/2014	NM	NM	8/8/2014	10.29	1191.67	8/8/2014	9.85	1191.84
11/18/2014	NM	NM	11/18/2014	9.17	1192.79	11/18/2014	8.85	1192.84
9/9/2015	9.7	1191.26	9/9/2015	10.42	1191.54	9/9/2015	10.08	1191.61
12/9/2015	7.78	1193.18	12/9/2015	8.65	1193.31	12/9/2015	8.28	1193.41
3/31/2016	6.68	1194.28	3/31/2016	7.3	1194.66	3/31/2016	6.98	1194.71
6/21/2016	7.63	1193.33	6/21/2016	8.35	1193.61	6/21/2016	8	1193.69
4/28/2017	5.72	1195.24	4/28/2017	6.47	1195.49	4/28/2017	6.05	1195.64
10/30/2017	9.03	1191.93	10/30/2017	9.94	1192.02	10/30/2017	9.46	1192.23
3/29/2018	11.17	1189.79	3/29/2018	12.14	1189.82	3/29/2018	11.48	1190.21
6/22/2018	8.47	1192.49	6/22/2018	8.82	1193.14	6/22/2018	8.38	1193.31
9/26/2018	9.67	1191.29	9/26/2018	10.55	1191.41	9/26/2018	10	1191.69
12/5/2018	8.47	1192.49	12/5/2018	9.45	1192.51	12/5/2018	8.92	1192.77

MW-700			PZ-700			MW-800			PZ-800		
Surface Elevation (ft)		1202	Surface Elevation (ft)		1202	Surface Elevation (ft)		1200.25	Surface Elevation (ft)		1199
Top of Casing elevation (ft)		1204.72	Top of Casing elevation (ft)		1203.36	Top of Casing elevation (ft)		1200.03	Top of Casing elevation (ft)		1198.99
Top of Screen Elevation (ft)*		1200	Top of Screen Elevation (ft)*		1170.5	Top of Screen Elevation (ft)*		1196.25	Top of Screen Elevation (ft)*		1168
Bottom of Screen Elevation (ft)		1190	Bottom of Screen Elevation (ft)		1165.5	Bottom of Screen Elevation (ft)		1186.25	Bottom of Screen Elevation (ft)		1163
Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch	Well Diameter		2-inch
Installed		4/15/1997	Installed		4/15/1997	Installed		6/10/1997	Installed		6/10/1997
Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)
8/29/2012	15.26	1189.46	8/29/2012	14.02	1189.34	8/29/2012	11.18	1188.85	8/29/2012	10.14	1188.85
8/8/2014	NM	NM	8/8/2014	NM	NM	8/8/2014	NM	NM	8/8/2014	NM	NM
11/18/2014	NM	NM	11/18/2014	NM	NM	11/18/2014	NM	NM	11/18/2014	NM	NM
9/9/2015	NM	NM	9/9/2015	NM	NM	9/9/2015	8.86	1191.17	9/9/2015	7.51	1191.48
12/9/2015	NM	NM	12/9/2015	NM	NM	12/9/2015	NM	NM	12/9/2015	NM	NM
3/31/2016	NM	NM	3/31/2016	NM	NM	3/31/2016	NM	NM	3/31/2016	NM	NM
6/21/2016	10.9	1193.82	6/21/2016	9.5	1193.86	6/21/2016	6.06	1193.97	6/21/2016	6.53	1192.46
4/28/2017	NM	NM	4/28/2017	NM	NM						
10/30/2017	NM	NM	10/30/2017	NM	NM						
3/29/2018	NM	NM	3/29/2018	NM	NM						
6/22/2018	NM	NM	6/22/2018	NM	NM						
9/26/2018	NM	NM	9/26/2018	NM	NM						
12/5/2018	NM	NM	12/5/2018	NM	NM						

MW-800 and PZ-800 transferred to Donald Store site

MW-900			PZ-900		
Surface Elevation (ft)		1199	Surface Elevation (ft)		1199
Top of Casing elevation (ft)		1198.9	Top of Casing elevation (ft)		1198.82
Top of Screen Elevation (ft)*		1195.5	Top of Screen Elevation (ft)*		1170
Bottom of Screen Elevation (ft)		1185.5	Bottom of Screen Elevation (ft)		1165
Well Diameter		2-inch	Well Diameter		2-inch
Installed		6/10/1997	Installed		6/11/1997
Meas. Date	Depth to Water (ft)	Elevation (ft)	Meas. Date	Depth to Water (ft)	Elevation (ft)
8/29/2012	10.59	1188.31	8/29/2012	10.48	1188.34
8/8/2014	NM	NM	8/8/2014	NM	NM
11/18/2014	NM	NM	11/18/2014	NM	NM
9/9/2015	8.4	1190.50	9/9/2015	8.31	1190.51
12/9/2015	6.17	1192.73	12/9/2015	6.17	1192.65
3/31/2016	3.51	1195.39	3/31/2016	4.85	1193.97
6/21/2016	6.34	1192.56	6/21/2016	6.26	1192.56
4/28/2017	3.28	1195.62	4/28/2017	4.28	1194.54
10/30/2017	7.43	1191.47	10/30/2017	7.31	1191.51
3/29/2018	7.13	1191.77	3/29/2018	9.58	1189.24
6/22/2018	7.09	1191.81	6/22/2018	6.98	1191.84
9/26/2018	8.47	1190.43	9/26/2018	8.38	1190.44
12/5/2018	7.03	1191.87	12/5/2018	7.07	1191.75

Table 3: Natural Attenuation Data
 Webster Pig Farm
 Meridian No. 05F784

Well	DO	pH	Temp	Conductivity	ORP
Units	mg/l		C	uS	
MW-200					
9/9/2015	2	7.3	16.9	661	204
12/9/2015	2	7.37	9.3	461	55
3/31/2016	4	7.4	7.1	445	9
6/21/2016	3	8.31	13.5	467	43
4/28/2017	3	7.9	9.2	400	-85
10/30/2017	3	7.02	10.6	380	-60
3/29/2018	2	8.04	8.1	694	-129
6/22/2018	4	7.9	14.8	609	119
9/26/2018	3	6.96	14.1	386	161
12/5/2018	2	7.08	6.3	480	-173
MW-300					
9/9/2015	1	7.4	13.6	1054	181
12/9/2015	4	7.7	8.7	710	57
3/31/2016	2	7.72	5.7	788	41
6/21/2016	4	7.71	13.6	892	47
4/28/2017	2	7.88	7.4	747	-41
10/30/2017	0	7.68	9.1	520	-82
3/29/2018	1	8.08	6	460	-127
6/22/2018	1	7.73	11.7	489	-109
9/26/2018	1	7.36	12.8	463	150
12/5/2018	<1	7.19	6.7	602	154
MW-400					
9/9/2015	<1	7.27	14.1	694	16
12/9/2015	1	7.74	8.9	834	17
3/31/2016	2	7.56	5.9	761	40
6/21/2016	<1	8.24	14.9	604	-26
4/28/2017	3	8.17	8.6	375	-53
10/30/2017	2	7.68	8.8	595	-83
3/29/2018	2	8.22	7.5	560	-169
6/22/2018	2	8.03	11.3	651	-86
9/26/2018	1	7.67	13.2	689	107
12/5/2018	<1	7.25	7.8	464	-155
MW-500					
9/9/2015	2	7.89	15.5	505	160
12/9/2015	3	8.03	8.9	549	13
3/31/2016	3	7.92	6.8	538	2
6/21/2016	3	8.65	12.6	511	18
4/28/2017	3	8.38	9.6	449	-75
10/30/2017	3	7.34	10.2	405	-57
3/29/2018	3	8.21	7.4	397	-139
6/22/2018	5	7.8	14	394	-100
9/26/2018	2	7.75	13.7	398	25
12/5/2018	4	7.18	7.3	437	-219
MW-600					
11/18/2014	1	6.75	11	118.3	NM
9/9/2015	<1	7.1	17.5	636	-42
12/9/2015	0	7.21	10.1	881	-48
3/31/2016	0	7.64	6.1	793	-3
6/21/2016	<1	8.07	14.4	692	44
4/28/2017	<1	7.73	8.8	570	-33
10/30/2017	0	6.96	11.8	566	-60
3/29/2018	<<1	8.21	8.3	621	-171
6/22/2018	<<1	7.6	11.5	529	-35
9/26/2018	0	7.66	15.3	307	-73
12/5/2018	0	7.32	8.3	506	-187
MW-900					
9/9/2015	1	7.22	14.3	707	49
12/9/2015	2	7.8	8.7	554	11
3/31/2016	4	8.37	5.5	381	15
6/21/2016	1	8.86	16.3	494	6
4/28/2017	4	7.85	9.7	820	-44
10/30/2017	<1	7.75	9.6	412	-81
3/29/2018	4	8.2	6.5	234	-129
6/22/2018	4	8.3	13.5	244	113
9/26/2018	1	7.77	14.3	306	98
12/5/2018	1	6.97	7.7	340	-168

DO measured using colometric ampules (Chemetric)

pH, conductivity, temperature, ORP measured in field with Oakton Multiparameter Testr 35 and YSI Ecosense ORP 15A

NM - not measured

Table 3: Natural Attenuation Data
 Webster Pig Farm
 Meridian No. 05F784

Well	DO	pH	Temp	Conductivity	ORP
Units	mg/l		C	uS	
PZ-100					
11/18/2014	3	6.85	9.7	201.4	NM
9/9/2015	2	7.44	11	809	57
12/9/2015	0	7.76	8.7	847	-40
3/31/2016	1	7.55	7.6	848	30
6/21/2016	1	7.93	12.9	867	44
4/28/2017	<1	7.57	9.9	704	-66
10/30/2017	3	7.37	8.5	178.2	-73
3/29/2018	3	7.81	8.8	562	-148
6/22/2018	<1	7.47	11.8	625	-180
9/26/2018	1	7.69	11.6	691	NM
12/5/2018	<<1	7.27	7.8	698	-284
P-200					
9/9/2015	3	7.94	16.2	738	147
12/9/2015	3	7.44	8.9	989	32
3/31/2016	2	7.41	7.2	718	24
6/21/2016	2	8.15	12.4	702	37
4/28/2017	6	8.03	10.4	211	-64
10/30/2017	5	7.05	9.6	238	-57
3/29/2018	5	8.4	9.5	338	-124
6/22/2018	5	7.97	13.4	292	-120
9/26/2018	2	6.84	13.5	623	120
12/5/2018	5	6.95	7.5	644	134
P-300					
9/9/2015	3	7.56	12.5	1350	176
12/9/2015	2	7.66	7.9	1575	50
3/31/2016	3	7.63	6.9	1622	37
6/21/2016	2	7.96	12.7	1680	37
4/28/2017	3	7.4	9.3	1172	-43
10/30/2017	1	7.11	8	1287	-70
3/29/2018	2	7.6	8.5	1212	-141
6/22/2018	1	7.6	12	1165	-80
9/26/2018	1	7.35	12	1128	133
12/5/2018	3	7.22	7	1179	-161
PZ-400					
11/18/2014	1	7.79	9.3	1276	NM
9/9/2015	3	7.9	12.4	1230	163
12/9/2015	1	7.81	8	1235	1
3/31/2016	2	7.83	7.7	1165	NM
6/21/2016	4	8.28	14.6	1189	-27
4/28/2017	3	8.19	10.1	141	-65
10/30/2017	1	7.1	7.6	878	-72
3/29/2018	3	8.27	9.1	1025	-136
6/22/2018	2	8.09	12.2	957	98
9/26/2018	2	7.68	13	979	133
12/5/2018	5	7.26	6.9	941	-23
PZ-600					
11/18/2014	1	7.12	11.8	115.4	NM
9/9/2015	1	8.2	15.1	650	73
12/9/2015	<<1	7.45	9.4	625	-54
3/31/2016	<1	7.3	7.8	665	60
6/21/2016	1	8.12	13.2	681	-31
4/28/2017	<1	7.78	10.2	601	-54
10/30/2017	<1	7.06	8.8	772	-52
3/29/2018	<<1	8.02	10.5	831	-147
6/22/2018	<<1	7.62	12.3	807	-28
9/26/2018	1	7.78	13.4	523	-95
12/5/2018	4	7.29	8.1	872	-205
P-900					
9/9/2015	4	7.83	12.7	1316	122
12/9/2015	2	7.27	8.5	1691	-32
3/31/2016	3	8.12	8	1423	31
6/21/2016	4	8.47	14.4	1438	5
4/28/2017	2	7.75	10.1	863	-49
10/30/2017	3	7.45	7.7	1188	-32
3/29/2018	2	8.1	9	817	-146
6/22/2018	2	8.06	13.4	807	96
9/26/2018	2	7.64	13	826	102
12/5/2018	2	7.15	6.8	878	146
Pig Farm Well					
11/18/2014	2	8.85	9.4	184.3	NM

DO measured using colometric ampules (Chemetric)
 pH, conductivity, temperature, ORP measured in field with Oakton Multiparameter Testr 35 and YSI Ecosense ORP 15A
 NM - not measured

Table 4: Hydraulic Conductivity Testing Results

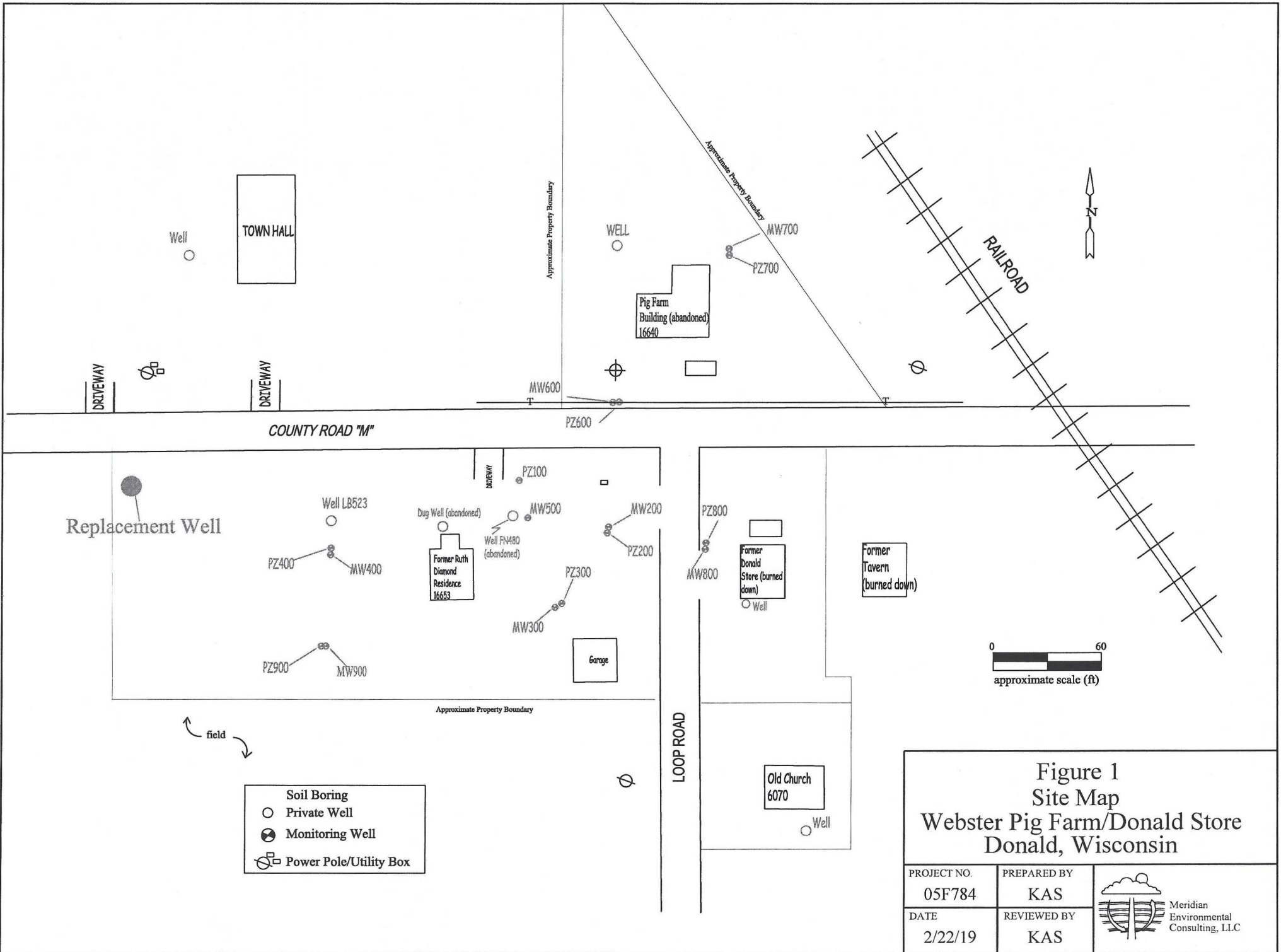
Webster Pig Farm
Donald, Wisconsin
Meridian No. 05F784

Well	Hydraulic Conductivity	
	(cm/sec)	(ft/year)
MW-300	8.50E-04	879.4
PZ-300	9.20E-04	951.9
MW-400	5.30E-04	548.4
PZ-400	1.30E-03	1345.0
MW-600	4.30E-04	444.9
PZ-600	1.20E-03	1241.6


Average of MW-300, MW-400, MW-600: **6.0E-04** cm/sec

Average of PZ-300, PZ-400, PZ-600: **1.1E-03** cm/sec

FIGURES



**Figure 1
Site Map
Webster Pig Farm/Donald Store
Donald, Wisconsin**

PROJECT NO. 05F784	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 2/22/19	REVIEWED BY KAS	

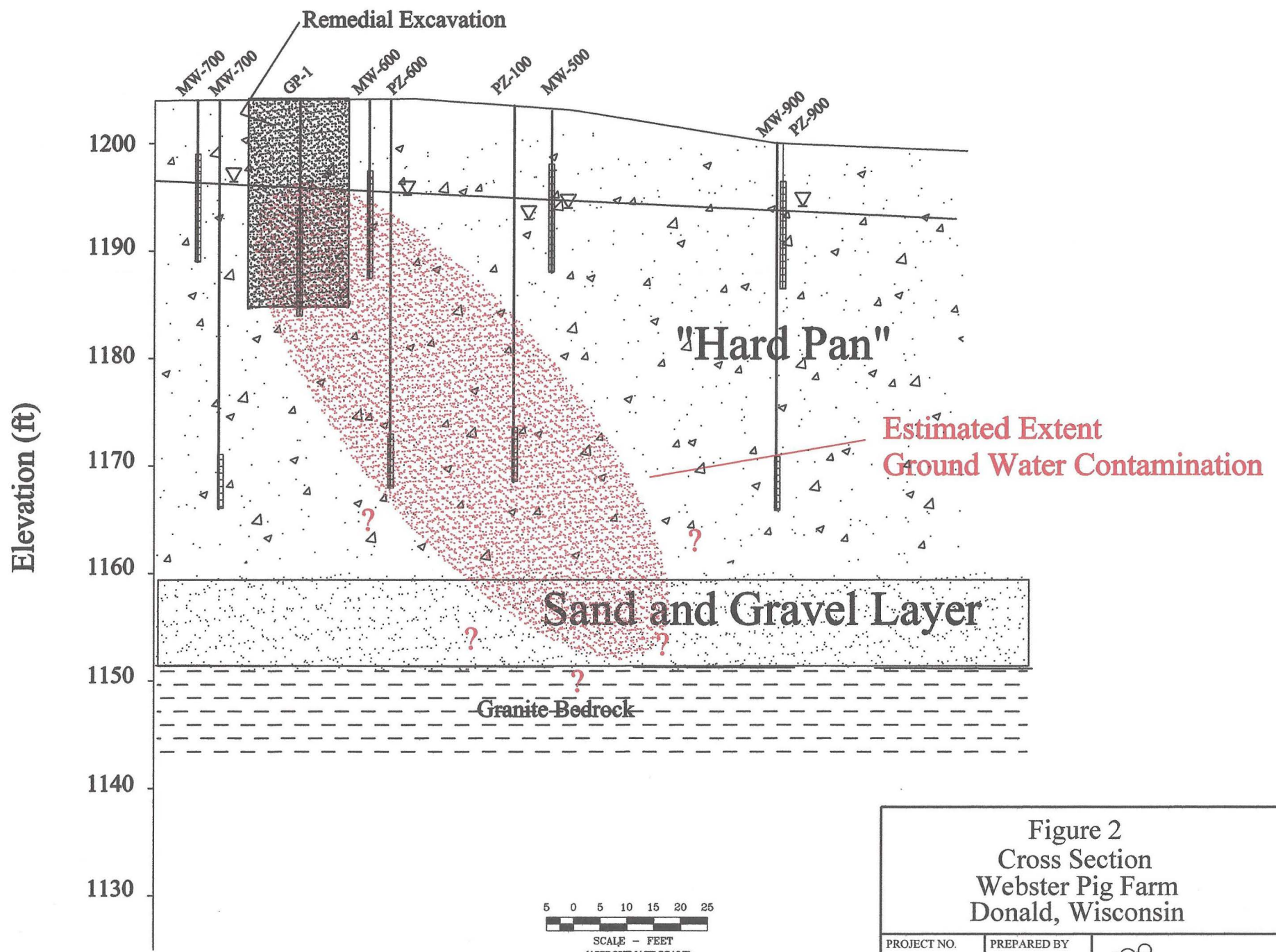
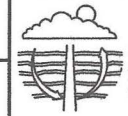
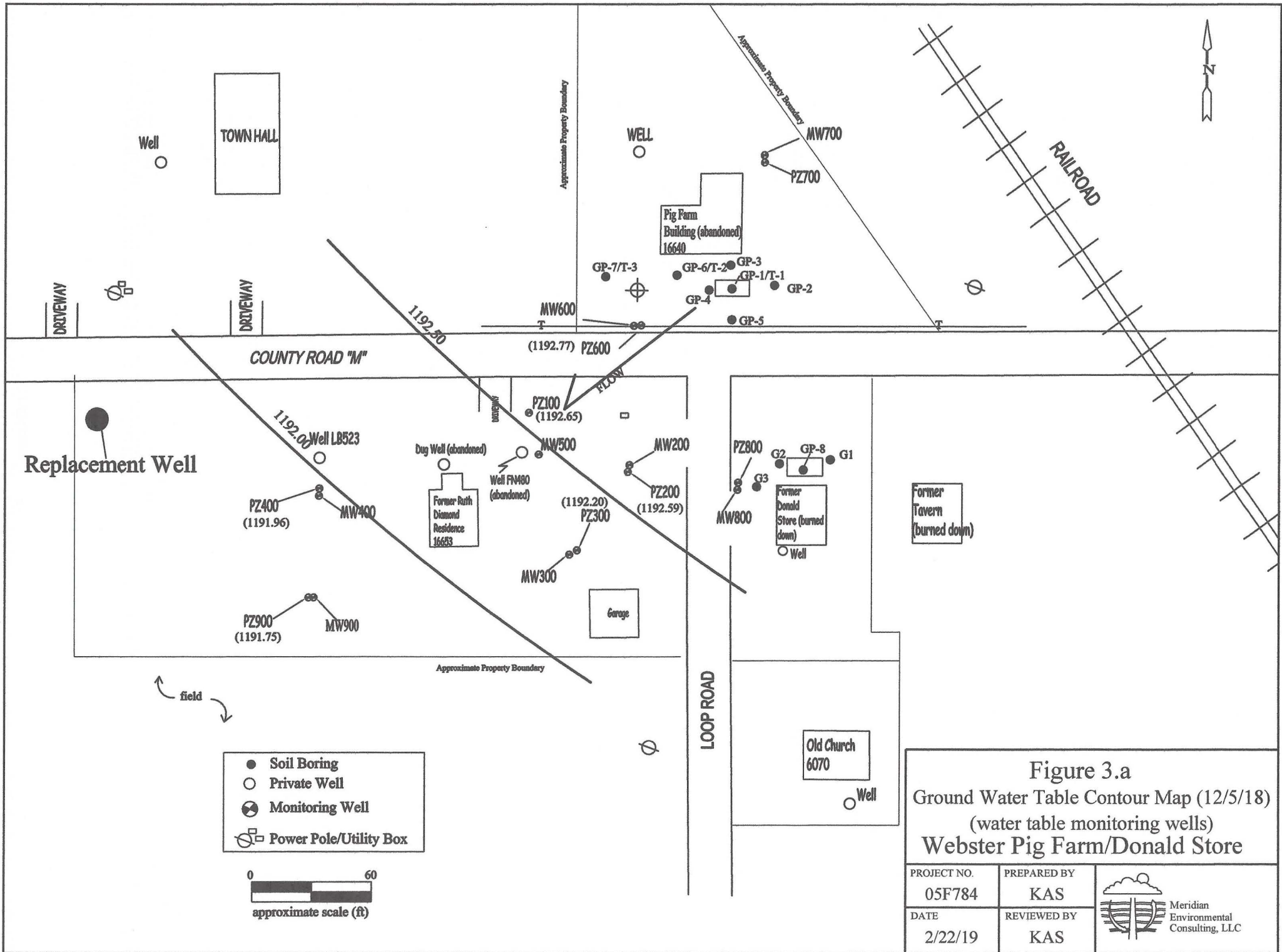


Figure 2
 Cross Section
 Webster Pig Farm
 Donald, Wisconsin

PROJECT NO. 05F784	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 2/27/19	REVIEWED BY KAS	

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



- Soil Boring
- Private Well
- ⊗ Monitoring Well
- ⊕ Power Pole/Utility Box

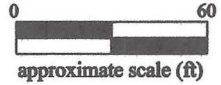



Figure 3.a
Ground Water Table Contour Map (12/5/18)
 (water table monitoring wells)
Webster Pig Farm/Donald Store

PROJECT NO. 05F784	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 2/22/19	REVIEWED BY KAS	

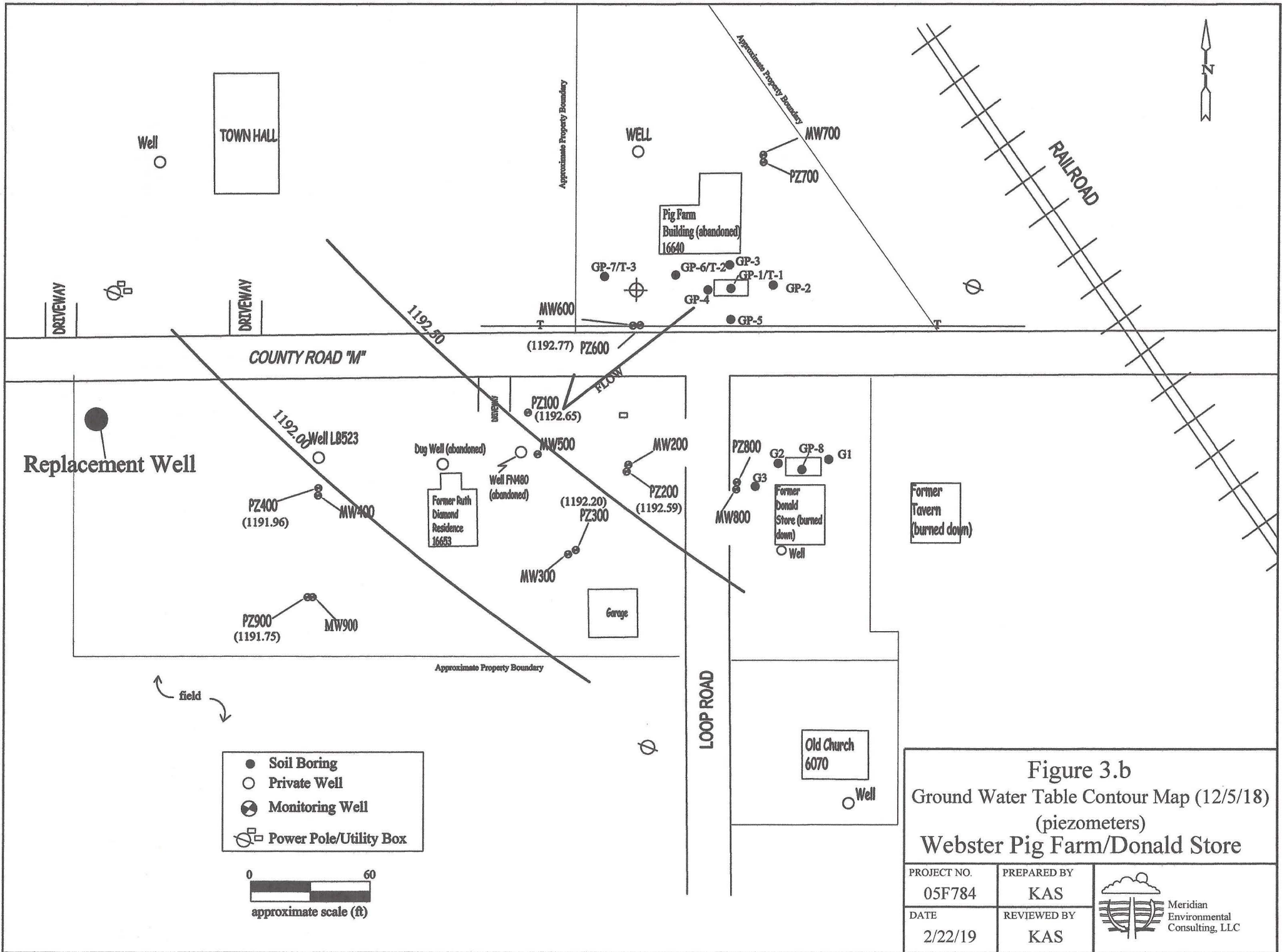

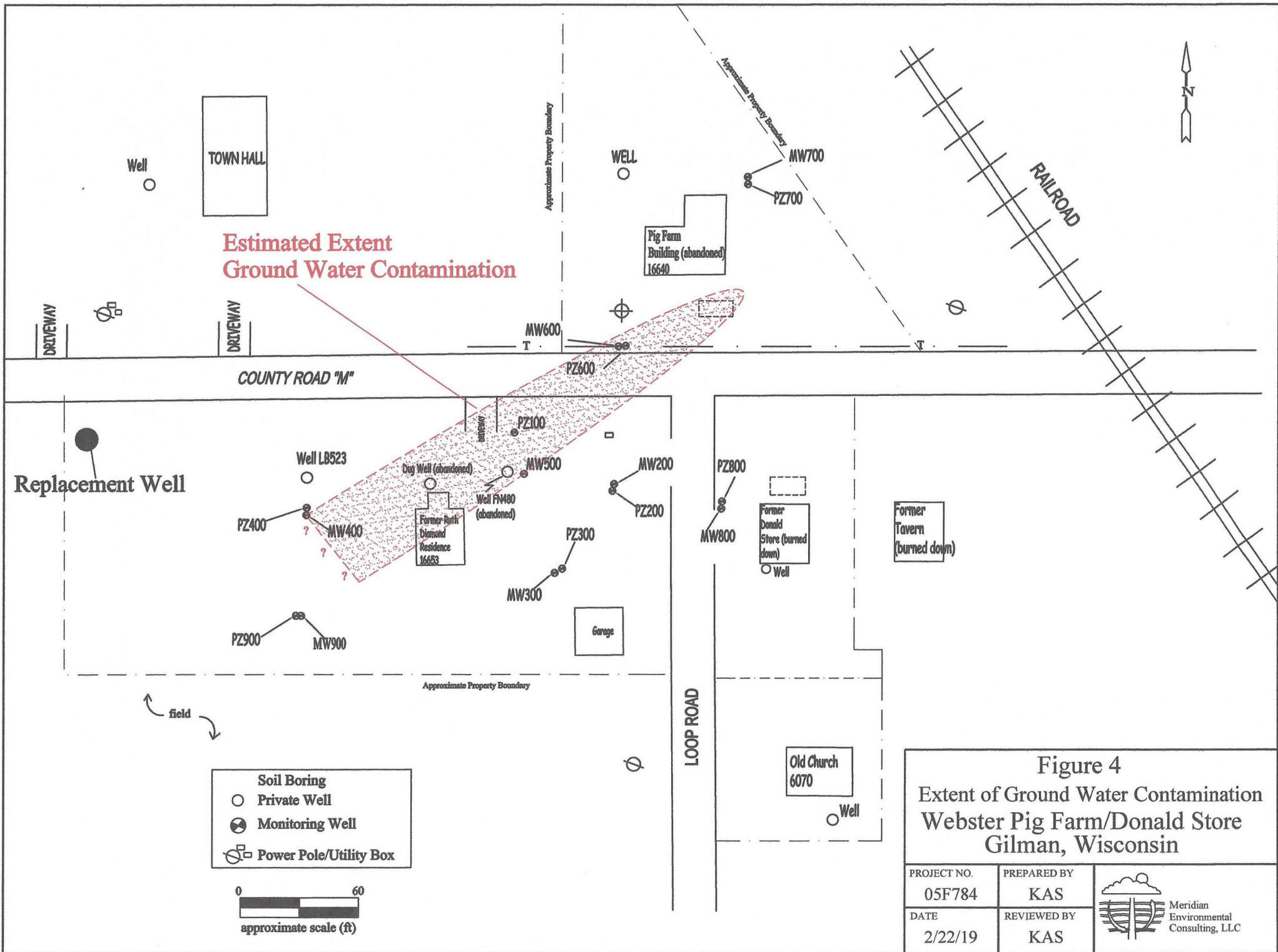


Figure 3.b
 Ground Water Table Contour Map (12/5/18)
 (piezometers)
 Webster Pig Farm/Donald Store

PROJECT NO. 05F784	PREPARED BY KAS	 Meridian Environmental Consulting, LLC
DATE 2/22/19	REVIEWED BY KAS	

- Soil Boring
- Private Well
- ⊗ Monitoring Well
- ⊠ Power Pole/Utility Box

0 60
 approximate scale (ft)



APPENDIX A

Analytical Reports

April 05, 2018

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

RE: Project: WEBSTER PIG FARM
Pace Project No.: 40166862

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

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

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SAMPLE SUMMARY

Project: WEBSTER PIG FARM
Pace Project No.: 40166862

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166862001	P100	Water	03/29/18 00:00	04/03/18 10:30
40166862002	M500	Water	03/29/18 00:00	04/03/18 10:30
40166862003	P200	Water	03/29/18 00:00	04/03/18 10:30
40166862004	M200	Water	03/29/18 00:00	04/03/18 10:30
40166862005	P300	Water	03/29/18 00:00	04/03/18 10:30
40166862006	M300	Water	03/29/18 00:00	04/03/18 10:30
40166862007	P400	Water	03/29/18 00:00	04/03/18 10:30
40166862008	M400	Water	03/29/18 00:00	04/03/18 10:30
40166862009	P600	Water	03/29/18 00:00	04/03/18 10:30
40166862010	M600	Water	03/29/18 00:00	04/03/18 10:30
40166862011	P900	Water	03/29/18 00:00	04/03/18 10:30
40166862012	M900	Water	03/29/18 00:00	04/03/18 10:30
40166862013	HOUSE	Water	03/29/18 00:00	04/03/18 10:30
40166862014	TRIP BLANK	Water	03/29/18 00:00	04/03/18 10:30

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SAMPLE ANALYTE COUNT

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166862001	P100	WI MOD GRO	ALD	9	PASI-G
40166862002	M500	WI MOD GRO	ALD	9	PASI-G
40166862003	P200	WI MOD GRO	ALD	9	PASI-G
40166862004	M200	WI MOD GRO	ALD	9	PASI-G
40166862005	P300	WI MOD GRO	ALD	9	PASI-G
40166862006	M300	WI MOD GRO	ALD	9	PASI-G
40166862007	P400	WI MOD GRO	ALD	9	PASI-G
40166862008	M400	WI MOD GRO	ALD	9	PASI-G
40166862009	P600	WI MOD GRO	ALD	9	PASI-G
40166862010	M600	WI MOD GRO	ALD	9	PASI-G
40166862011	P900	WI MOD GRO	ALD	9	PASI-G
40166862012	M900	WI MOD GRO	ALD	9	PASI-G
40166862013	HOUSE	WI MOD GRO	ALD	9	PASI-G
40166862014	TRIP BLANK	WI MOD GRO	ALD	9	PASI-G

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PROJECT NARRATIVE

Project: WEBSTER PIG FARM
Pace Project No.: 40166862

Method: WI MOD GRO
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: April 05, 2018

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: 285078

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40166862002

R1: RPD value was outside control limits.

- MSD (Lab ID: 1668588)
 - 1,2,4-Trimethylbenzene
 - 1,3,5-Trimethylbenzene

Additional Comments:

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

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ANALYTICAL RESULTS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P100 Lab ID: 40166862001 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	1510	ug/L	10.0	4.0	10		04/04/18 15:54	71-43-2	
Ethylbenzene	<3.9	ug/L	10.0	3.9	10		04/04/18 15:54	100-41-4	
Methyl-tert-butyl ether	<4.8	ug/L	10.0	4.8	10		04/04/18 15:54	1634-04-4	
Naphthalene	6.1J	ug/L	10.0	4.2	10		04/04/18 15:54	91-20-3	
Toluene	22.5	ug/L	10.0	3.9	10		04/04/18 15:54	108-88-3	
1,2,4-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		04/04/18 15:54	95-63-6	
1,3,5-Trimethylbenzene	<4.2	ug/L	10.0	4.2	10		04/04/18 15:54	108-67-8	
Xylene (Total)	<12.5	ug/L	30.0	12.5	10		04/04/18 15:54	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		04/04/18 15:54	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M500 Lab ID: 40166862002 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 10:45	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 10:45	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 10:45	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 10:45	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 10:45	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 10:45	95-63-6	R1
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 10:45	108-67-8	R1
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 10:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 10:45	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P200 Lab ID: 40166862003 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 11:11	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 11:11	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 11:11	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:11	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 11:11	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:11	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:11	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 11:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 11:11	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Sample: M200 Lab ID: 40166862004 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 11:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 11:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 11:36	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 11:36	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 11:36	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 11:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		04/04/18 11:36	98-08-8	

Sample: P300 Lab ID: 40166862005 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 12:02	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:02	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 12:02	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:02	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:02	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:02	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:02	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 12:02	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		04/04/18 12:02	98-08-8	

Sample: M300 Lab ID: 40166862006 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 12:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:28	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 12:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:28	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 12:28	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 12:28	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P400 Lab ID: 40166862007 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 12:54	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:54	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 12:54	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:54	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 12:54	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:54	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 12:54	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 12:54	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		04/04/18 12:54	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M400 Lab ID: 40166862008 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 13:19	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 13:19	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 13:19	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:19	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 13:19	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:19	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:19	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 13:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 13:19	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P600 Lab ID: 40166862009 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	434	ug/L	5.0	2.0	5		04/04/18 16:19	71-43-2	
Ethylbenzene	97.2	ug/L	5.0	2.0	5		04/04/18 16:19	100-41-4	
Methyl-tert-butyl ether	<2.4	ug/L	5.0	2.4	5		04/04/18 16:19	1634-04-4	
Naphthalene	223	ug/L	5.0	2.1	5		04/04/18 16:19	91-20-3	
Toluene	146	ug/L	5.0	1.9	5		04/04/18 16:19	108-88-3	
1,2,4-Trimethylbenzene	30.5	ug/L	5.0	2.1	5		04/04/18 16:19	95-63-6	
1,3,5-Trimethylbenzene	118	ug/L	5.0	2.1	5		04/04/18 16:19	108-67-8	
Xylene (Total)	167	ug/L	15.0	6.2	5		04/04/18 16:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		5		04/04/18 16:19	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M600 Lab ID: 40166862010 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	74.1	ug/L	5.0	2.0	5		04/04/18 16:45	71-43-2	
Ethylbenzene	584	ug/L	5.0	2.0	5		04/04/18 16:45	100-41-4	
Methyl-tert-butyl ether	12.8	ug/L	5.0	2.4	5		04/04/18 16:45	1634-04-4	
Naphthalene	315	ug/L	5.0	2.1	5		04/04/18 16:45	91-20-3	
Toluene	180	ug/L	5.0	1.9	5		04/04/18 16:45	108-88-3	
1,2,4-Trimethylbenzene	318	ug/L	5.0	2.1	5		04/04/18 16:45	95-63-6	
1,3,5-Trimethylbenzene	158	ug/L	5.0	2.1	5		04/04/18 16:45	108-67-8	
Xylene (Total)	891	ug/L	15.0	6.2	5		04/04/18 16:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	117	%	80-120		5		04/04/18 16:45	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P900 Lab ID: 40166862011 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 13:45	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 13:45	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 13:45	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:45	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 13:45	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:45	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 13:45	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 13:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 13:45	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M900 Lab ID: 40166862012 Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 14:11	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 14:11	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 14:11	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:11	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 14:11	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:11	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:11	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 14:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		04/04/18 14:11	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

Sample: HOUSE **Lab ID: 40166862013** Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 17:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 17:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 17:36	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 17:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 17:36	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 17:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 17:36	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 17:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 17:36	98-08-8	HS

Sample: TRIP BLANK **Lab ID: 40166862014** Collected: 03/29/18 00:00 Received: 04/03/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		04/04/18 14:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		04/04/18 14:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		04/04/18 14:36	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		04/04/18 14:36	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		04/04/18 14:36	108-67-8	
Xylene (Total)	<1.2	ug/L	3.0	1.2	1		04/04/18 14:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/04/18 14:36	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER PIG FARM
Pace Project No.: 40166862

QC Batch: 285078 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40166862001, 40166862002, 40166862003, 40166862004, 40166862005, 40166862006, 40166862007, 40166862008, 40166862009, 40166862010, 40166862011, 40166862012, 40166862013, 40166862014

METHOD BLANK: 1668410 Matrix: Water
Associated Lab Samples: 40166862001, 40166862002, 40166862003, 40166862004, 40166862005, 40166862006, 40166862007, 40166862008, 40166862009, 40166862010, 40166862011, 40166862012, 40166862013, 40166862014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	04/04/18 09:02	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	04/04/18 09:02	
Benzene	ug/L	<0.40	1.0	04/04/18 09:02	
Ethylbenzene	ug/L	<0.39	1.0	04/04/18 09:02	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	04/04/18 09:02	
Naphthalene	ug/L	<0.42	1.0	04/04/18 09:02	
Toluene	ug/L	<0.39	1.0	04/04/18 09:02	
Xylene (Total)	ug/L	<1.2	3.0	04/04/18 09:02	
a,a,a-Trifluorotoluene (S)	%	105	80-120	04/04/18 09:02	

LABORATORY CONTROL SAMPLE & LCSD: 1668411 1668412

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.3	20.6	102	103	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.7	20.0	99	100	80-120	1	20	
Benzene	ug/L	20	19.6	19.7	98	99	80-120	0	20	
Ethylbenzene	ug/L	20	20.2	20.2	101	101	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.2	19.6	101	98	80-120	3	20	
Naphthalene	ug/L	20	21.3	20.9	107	105	80-120	2	20	
Toluene	ug/L	20	19.9	20.1	100	101	80-120	1	20	
Xylene (Total)	ug/L	60	59.5	60.3	99	100	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				104	105	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1668587 1668588

Parameter	Units	40166862002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	16.3	20.0	81	100	11-200	21	20	R1
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	14.2	18.5	71	93	54-142	26	20	R1
Benzene	ug/L	<0.40	20	20	22.4	22.7	112	114	66-140	1	20	
Ethylbenzene	ug/L	<0.39	20	20	21.9	22.9	110	114	66-143	4	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	21.4	22.3	107	112	70-129	4	20	
Naphthalene	ug/L	<0.42	20	20	22.1	23.1	111	116	64-129	4	20	
Toluene	ug/L	<0.39	20	20	21.9	22.7	109	114	76-130	4	20	
Xylene (Total)	ug/L	<1.2	60	60	58.2	64.0	97	107	60-140	10	20	
a,a,a-Trifluorotoluene (S)	%						103	104	80-120			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WEBSTER PIG FARM

Pace Project No.: 40166862

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER PIG FARM
Pace Project No.: 40166862

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166862001	P100	WI MOD GRO	285078		
40166862002	M500	WI MOD GRO	285078		
40166862003	P200	WI MOD GRO	285078		
40166862004	M200	WI MOD GRO	285078		
40166862005	P300	WI MOD GRO	285078		
40166862006	M300	WI MOD GRO	285078		
40166862007	P400	WI MOD GRO	285078		
40166862008	M400	WI MOD GRO	285078		
40166862009	P600	WI MOD GRO	285078		
40166862010	M600	WI MOD GRO	285078		
40166862011	P900	WI MOD GRO	285078		
40166862012	M900	WI MOD GRO	285078		
40166862013	HOUSE	WI MOD GRO	285078		
40166862014	TRIP BLANK	WI MOD GRO	285078		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: Meridian

Project # 4066862

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN	
001																	3																	2.5 / 5 / 10
002																	3																	2.5 / 5 / 10
003																	3																	2.5 / 5 / 10
004																	3																	2.5 / 5 / 10
005																	3																	2.5 / 5 / 10
006																	3																	2.5 / 5 / 10
007																	3																	2.5 / 5 / 10
008																	3																	2.5 / 5 / 10
009																	3																	2.5 / 5 / 10
010																	3																	2.5 / 5 / 10
011																	3																	2.5 / 5 / 10
012																	3																	2.5 / 5 / 10
013																	3																	2.5 / 5 / 10
014																	3																	2.5 / 5 / 10
015																	3																	2.5 / 5 / 10
016																	3																	2.5 / 5 / 10
017																	3																	2.5 / 5 / 10
018																	3																	2.5 / 5 / 10
019																	3																	2.5 / 5 / 10
020																	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	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	



1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document No.:
F-GB-C-031-rev.06

Document Revised: 31Jan2018

Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #

WO# : 40166862

Client Name: Mendota

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 7803 3844 7361 7803 3844 7361

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: AbE ICorr: _____

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 4/3/18
Initials: SSM

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. No collect times <u>SSM 4/3/18</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. No time <u>SSM 4/3/18</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A MS/MSD <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. No collect dates <u>SSM 4/3/18</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>394</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 014 - Trip Blanks - added to COC per PAM SSM 4/3/18

Project Manager Review: _____

Date: 4-2-18

June 28, 2018

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

RE: Project: WEBSTER
Pace Project No.: 40171432

Dear Kenneth Shimko:

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

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WEBSTER

Pace Project No.: 40171432

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

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SAMPLE SUMMARY

Project: WEBSTER

Pace Project No.: 40171432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40171432001	P-100	Water	06/22/18 00:00	06/26/18 09:30
40171432002	MW-200	Water	06/22/18 00:00	06/26/18 09:30
40171432003	P-200	Water	06/22/18 00:00	06/26/18 09:30
40171432004	MW-300	Water	06/22/18 00:00	06/26/18 09:30
40171432005	P-300	Water	06/22/18 00:00	06/26/18 09:30
40171432006	MW-400	Water	06/22/18 00:00	06/26/18 09:30
40171432007	P-400	Water	06/22/18 00:00	06/26/18 09:30
40171432008	MW-500	Water	06/22/18 00:00	06/26/18 09:30
40171432009	MW-600	Water	06/22/18 00:00	06/26/18 09:30
40171432010	P-600	Water	06/22/18 00:00	06/26/18 09:30
40171432011	MW-900	Water	06/22/18 00:00	06/26/18 09:30
40171432012	P-900	Water	06/22/18 00:00	06/26/18 09:30
40171432013	HOUSE	Water	06/22/18 00:00	06/26/18 09:30
40171432014	TB	Water	06/22/18 00:00	06/26/18 09:30

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SAMPLE ANALYTE COUNT

Project: WEBSTER
Pace Project No.: 40171432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40171432001	P-100	WI MOD GRO	ALD	9	PASI-G
40171432002	MW-200	WI MOD GRO	ALD	9	PASI-G
40171432003	P-200	WI MOD GRO	ALD	9	PASI-G
40171432004	MW-300	WI MOD GRO	ALD	9	PASI-G
40171432005	P-300	WI MOD GRO	ALD	9	PASI-G
40171432006	MW-400	WI MOD GRO	ALD	9	PASI-G
40171432007	P-400	WI MOD GRO	ALD	9	PASI-G
40171432008	MW-500	WI MOD GRO	ALD	9	PASI-G
40171432009	MW-600	WI MOD GRO	ALD	9	PASI-G
40171432010	P-600	WI MOD GRO	ALD	9	PASI-G
40171432011	MW-900	WI MOD GRO	ALD	9	PASI-G
40171432012	P-900	WI MOD GRO	ALD	9	PASI-G
40171432013	HOUSE	WI MOD GRO	ALD	9	PASI-G
40171432014	TB	WI MOD GRO	ALD	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WEBSTER
Pace Project No.: 40171432

Method: WI MOD GRO
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: June 28, 2018

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER

Pace Project No.: 40171432

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P-100 Lab ID: 40171432001 Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	2680	ug/L	25.5	7.6	25		06/27/18 15:53	71-43-2	
Ethylbenzene	<8.2	ug/L	27.5	8.2	25		06/27/18 15:53	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		06/27/18 15:53	1634-04-4	
Naphthalene	44.9	ug/L	42.0	12.6	25		06/27/18 15:53	91-20-3	
Toluene	46.0	ug/L	40.8	12.2	25		06/27/18 15:53	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		06/27/18 15:53	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		06/27/18 15:53	108-67-8	
Xylene (Total)	26.3J	ug/L	80.8	24.2	25		06/27/18 15:53	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		25		06/27/18 15:53	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-200 Lab ID: 40171432002 Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 12:27	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 12:27	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 12:27	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 12:27	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 12:27	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 12:27	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 12:27	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 12:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 12:27	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P-200 Lab ID: 40171432003 Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 12:53	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 12:53	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 12:53	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 12:53	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 12:53	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 12:53	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 12:53	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 12:53	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 12:53	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40171432

Sample: MW-300 **Lab ID: 40171432004** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 13:19	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 13:19	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 13:19	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 13:19	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 13:19	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 13:19	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 13:19	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 13:19	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 13:19	98-08-8	

Sample: P-300 **Lab ID: 40171432005** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 13:45	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 13:45	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 13:45	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 13:45	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 13:45	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 13:45	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 13:45	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 13:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/27/18 13:45	98-08-8	

Sample: MW-400 **Lab ID: 40171432006** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 14:10	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 14:10	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 14:10	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 14:10	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 14:10	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 14:10	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 14:10	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 14:10	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 14:10	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER

Pace Project No.: 40171432

Sample: P-400 **Lab ID: 40171432007** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3.0	ug/L	1.0	0.31	1		06/27/18 18:03	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:03	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 18:03	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 18:03	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 18:03	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 18:03	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:03	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 18:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		06/27/18 18:03	98-08-8	

Sample: MW-500 **Lab ID: 40171432008** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 18:28	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:28	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 18:28	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 18:28	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 18:28	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 18:28	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:28	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 18:28	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/27/18 18:28	98-08-8	

Sample: MW-600 **Lab ID: 40171432009** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	27.5	ug/L	5.1	1.5	5		06/27/18 16:45	71-43-2	
Ethylbenzene	351	ug/L	5.5	1.6	5		06/27/18 16:45	100-41-4	
Methyl-tert-butyl ether	7.1	ug/L	5.4	1.6	5		06/27/18 16:45	1634-04-4	
Naphthalene	247	ug/L	8.4	2.5	5		06/27/18 16:45	91-20-3	
Toluene	151	ug/L	8.2	2.4	5		06/27/18 16:45	108-88-3	
1,2,4-Trimethylbenzene	213	ug/L	5.7	1.7	5		06/27/18 16:45	95-63-6	
1,3,5-Trimethylbenzene	133	ug/L	5.4	1.6	5		06/27/18 16:45	108-67-8	
Xylene (Total)	676	ug/L	16.2	4.8	5		06/27/18 16:45	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		5		06/27/18 16:45	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40171432

Sample: P-600 **Lab ID: 40171432010** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	349	ug/L	4.1	1.2	4		06/28/18 10:02	71-43-2	
Ethylbenzene	102	ug/L	4.4	1.3	4		06/28/18 10:02	100-41-4	
Methyl-tert-butyl ether	<1.3	ug/L	4.3	1.3	4		06/28/18 10:02	1634-04-4	
Naphthalene	161	ug/L	6.7	2.0	4		06/28/18 10:02	91-20-3	
Toluene	116	ug/L	6.5	2.0	4		06/28/18 10:02	108-88-3	
1,2,4-Trimethylbenzene	48.1	ug/L	4.6	1.4	4		06/28/18 10:02	95-63-6	
1,3,5-Trimethylbenzene	119	ug/L	4.4	1.3	4		06/28/18 10:02	108-67-8	
Xylene (Total)	194	ug/L	12.9	3.9	4		06/28/18 10:02	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		4		06/28/18 10:02	98-08-8	

Sample: MW-900 **Lab ID: 40171432011** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 18:54	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:54	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 18:54	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 18:54	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 18:54	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 18:54	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 18:54	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 18:54	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 18:54	98-08-8	

Sample: P-900 **Lab ID: 40171432012** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 19:20	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 19:20	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 19:20	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 19:20	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 19:20	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 19:20	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 19:20	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 19:20	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 19:20	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER

Pace Project No.: 40171432

Sample: HOUSE **Lab ID: 40171432013** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 19:46	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 19:46	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 19:46	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 19:46	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 19:46	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 19:46	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 19:46	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 19:46	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/27/18 19:46	98-08-8	

Sample: TB **Lab ID: 40171432014** Collected: 06/22/18 00:00 Received: 06/26/18 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		06/27/18 14:36	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 14:36	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		06/27/18 14:36	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		06/27/18 14:36	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		06/27/18 14:36	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		06/27/18 14:36	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		06/27/18 14:36	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		06/27/18 14:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		06/27/18 14:36	98-08-8	

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40171432

QC Batch: 292965 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40171432001, 40171432002, 40171432003, 40171432004, 40171432005, 40171432006, 40171432007, 40171432008, 40171432009, 40171432010, 40171432011, 40171432012, 40171432013, 40171432014

METHOD BLANK: 1713029 Matrix: Water
Associated Lab Samples: 40171432001, 40171432002, 40171432003, 40171432004, 40171432005, 40171432006, 40171432007, 40171432008, 40171432009, 40171432010, 40171432011, 40171432012, 40171432013, 40171432014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	06/27/18 09:00	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	06/27/18 09:00	
Benzene	ug/L	<0.31	1.0	06/27/18 09:00	
Ethylbenzene	ug/L	<0.33	1.1	06/27/18 09:00	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	06/27/18 09:00	
Naphthalene	ug/L	<0.51	1.7	06/27/18 09:00	
Toluene	ug/L	<0.49	1.6	06/27/18 09:00	
Xylene (Total)	ug/L	<0.97	3.2	06/27/18 09:00	
a,a,a-Trifluorotoluene (S)	%	99	80-120	06/27/18 09:00	

Parameter	Units	1713030		1713031		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,2,4-Trimethylbenzene	ug/L	20	20.5	20.1	103	100	80-120	2	20
1,3,5-Trimethylbenzene	ug/L	20	19.9	19.8	99	99	80-120	1	20
Benzene	ug/L	20	19.7	19.6	98	98	80-120	1	20
Ethylbenzene	ug/L	20	20.2	20.1	101	100	80-120	1	20
Methyl-tert-butyl ether	ug/L	20	20.4	19.9	102	100	80-120	2	20
Naphthalene	ug/L	20	20.5	20.6	102	103	80-120	1	20
Toluene	ug/L	20	20.0	19.7	100	99	80-120	2	20
Xylene (Total)	ug/L	60	59.8	59.1	100	98	80-120	1	20
a,a,a-Trifluorotoluene (S)	%				100	99	80-120		

Parameter	Units	1713272		1713273		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40171383009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	21.5	21.4	108	107	51-160	0	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	20.9	20.8	105	104	56-146	0	20
Benzene	ug/L	<0.31	20	20	20.5	20.6	103	103	71-137	0	20
Ethylbenzene	ug/L	<0.33	20	20	21.5	21.6	107	108	71-141	1	20
Methyl-tert-butyl ether	ug/L	<0.32	20	20	19.8	20.4	99	102	80-120	3	20
Naphthalene	ug/L	<0.51	20	20	20.6	22.0	103	110	67-138	6	20
Toluene	ug/L	<0.49	20	20	20.9	21.1	105	106	76-134	1	20
Xylene (Total)	ug/L	<0.97	60	60	63.2	63.2	105	105	69-138	0	20
a,a,a-Trifluorotoluene (S)	%						99	99	80-120		

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

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QUALIFIERS

Project: WEBSTER
Pace Project No.: 40171432

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER

Pace Project No.: 40171432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40171432001	P-100	WI MOD GRO	292965		
40171432002	MW-200	WI MOD GRO	292965		
40171432003	P-200	WI MOD GRO	292965		
40171432004	MW-300	WI MOD GRO	292965		
40171432005	P-300	WI MOD GRO	292965		
40171432006	MW-400	WI MOD GRO	292965		
40171432007	P-400	WI MOD GRO	292965		
40171432008	MW-500	WI MOD GRO	292965		
40171432009	MW-600	WI MOD GRO	292965		
40171432010	P-600	WI MOD GRO	292965		
40171432011	MW-900	WI MOD GRO	292965		
40171432012	P-900	WI MOD GRO	292965		
40171432013	HOUSE	WI MOD GRO	292965		
40171432014	TB	WI MOD GRO	292965		

REPORT OF LABORATORY ANALYSIS

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Pace Container Order #373046

40171432

Addresses

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

Info

Project Name <u>Webster</u>	Due Date <u>06/12/2018</u>	Profile _____	Quote _____
Project Manager <u>Basten, Brian</u>	Return _____	Carrier <u>Most Economical</u>	Location <u>WI</u>

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input checked="" type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper Number <input type="checkbox"/> With Shipper Number	Misc <input checked="" type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers _____ <input type="checkbox"/> Syringes _____	
COC Options <input checked="" type="checkbox"/> Number of Blanks <u>2</u> <input type="checkbox"/> Pre-Printed _____	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush Stickers <input type="checkbox"/> DI Water <u>Liter(s)</u> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
15	WT	PVOC + Nap	3-40mL glass vial w/ HCl	51	0	B-8-120-01VB	
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-8-034-01VB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample storage and disposal.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.

Sample Notes

Ship Date :	
Prepared By:	
Verified By:	

Sample Preservation Receipt Form

Client Name: mendian

Project # 40171432

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU								WPFU	SP5T
001																	3														2.5 / 5 / 10
002																	3														2.5 / 5 / 10
003																	3														2.5 / 5 / 10
004																	3														2.5 / 5 / 10
005																	3														2.5 / 5 / 10
006																	3														2.5 / 5 / 10
007																	3														2.5 / 5 / 10
008																	3														2.5 / 5 / 10
009																	3														2.5 / 5 / 10
010																	3														2.5 / 5 / 10
011																	3														2.5 / 5 / 10
012																	3														2.5 / 5 / 10
013																	3														2.5 / 5 / 10
014																	2														2.5 / 5 / 10
015																															2.5 / 5 / 10
016																															2.5 / 5 / 10
017																															2.5 / 5 / 10
018																															2.5 / 5 / 10
019																															2.5 / 5 / 10
020																															2.5 / 5 / 10

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40171432

Client Name: mendian

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 781567482100

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: _____ / Corr: ROI

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 6/26/18
Initials: LR

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>original + copy</u>	<u>LR</u>
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>no invoice info, page #</u>	<u>LR</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>no collect times</u>	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>no 'W' in ID for 002, 004, 006, 008, 009, 011; no collect dates</u>	<u>LR</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>1 tab added to COC, received in shipment - added second page of chain</u>	<u>LR</u>
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>402</u>			

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

Project Manager Review: _____ Date: 6/26/18

October 02, 2018

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

RE: Project: WEBSTER
Pace Project No.: 40176708

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WEBSTER

Pace Project No.: 40176708

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: WEBSTER

Pace Project No.: 40176708

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40176708001	P100	Water	09/26/18 00:00	09/28/18 10:00
40176708002	M200	Water	09/26/18 00:00	09/28/18 10:00
40176708003	P200	Water	09/26/18 00:00	09/28/18 10:00
40176708004	M300	Water	09/26/18 00:00	09/28/18 10:00
40176708005	P300	Water	09/26/18 00:00	09/28/18 10:00
40176708006	M400	Water	09/26/18 00:00	09/28/18 10:00
40176708007	P400	Water	09/26/18 00:00	09/28/18 10:00
40176708008	M500	Water	09/26/18 00:00	09/28/18 10:00
40176708009	M600	Water	09/26/18 00:00	09/28/18 10:00
40176708010	P600	Water	09/26/18 00:00	09/28/18 10:00
40176708011	M900	Water	09/26/18 00:00	09/28/18 10:00
40176708012	P900	Water	09/26/18 00:00	09/28/18 10:00
40176708013	HOUSE	Water	09/26/18 00:00	09/28/18 10:00
40176708014	TB	Water	09/26/18 00:00	09/28/18 10:00

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SAMPLE ANALYTE COUNT

Project: WEBSTER

Pace Project No.: 40176708

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40176708001	P100	WI MOD GRO	ALD	9	PASI-G
40176708002	M200	WI MOD GRO	ALD	9	PASI-G
40176708003	P200	WI MOD GRO	ALD	9	PASI-G
40176708004	M300	WI MOD GRO	ALD	9	PASI-G
40176708005	P300	WI MOD GRO	ALD	9	PASI-G
40176708006	M400	WI MOD GRO	ALD	9	PASI-G
40176708007	P400	WI MOD GRO	ALD	9	PASI-G
40176708008	M500	WI MOD GRO	ALD	9	PASI-G
40176708009	M600	WI MOD GRO	ALD	9	PASI-G
40176708010	P600	WI MOD GRO	ALD	9	PASI-G
40176708011	M900	WI MOD GRO	ALD	9	PASI-G
40176708012	P900	WI MOD GRO	ALD	9	PASI-G
40176708013	HOUSE	WI MOD GRO	ALD	9	PASI-G
40176708014	TB	WI MOD GRO	ALD	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WEBSTER

Pace Project No.: 40176708

Method: WI MOD GRO

Description: WIGRO GCV

Client: Meridian Environmental Consulting, LLC

Date: October 02, 2018

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: 301680

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

- M600 (Lab ID: 40176708009)
- a,a,a-Trifluorotoluene (S)

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

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40176708

Sample: P100 Lab ID: 40176708001 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	3220	ug/L	51.0	15.3	50		10/01/18 17:11	71-43-2	
Ethylbenzene	<16.4	ug/L	55.0	16.4	50		10/01/18 17:11	100-41-4	
Methyl-tert-butyl ether	<16.0	ug/L	53.5	16.0	50		10/01/18 17:11	1634-04-4	
Naphthalene	73.9J	ug/L	84.0	25.3	50		10/01/18 17:11	91-20-3	
Toluene	72.1J	ug/L	81.5	24.4	50		10/01/18 17:11	108-88-3	
1,2,4-Trimethylbenzene	<17.1	ug/L	57.0	17.1	50		10/01/18 17:11	95-63-6	
1,3,5-Trimethylbenzene	<16.4	ug/L	54.5	16.4	50		10/01/18 17:11	108-67-8	
Xylene (Total)	51.0J	ug/L	162	48.5	50		10/01/18 17:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		50		10/01/18 17:11	98-08-8	

Sample: M200 Lab ID: 40176708002 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 11:38	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 11:38	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 11:38	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 11:38	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 11:38	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 11:38	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 11:38	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 11:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/01/18 11:38	98-08-8	

Sample: P200 Lab ID: 40176708003 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 12:03	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:03	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 12:03	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 12:03	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 12:03	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 12:03	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:03	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 12:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/01/18 12:03	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40176708

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M300 Lab ID: 40176708004 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 12:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:29	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 12:29	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 12:29	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 12:29	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 12:29	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:29	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 12:29	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/01/18 12:29	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P300 Lab ID: 40176708005 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 12:55	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:55	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 12:55	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 12:55	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 12:55	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 12:55	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:55	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 12:55	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/01/18 12:55	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M400 Lab ID: 40176708006 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 13:20	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 13:20	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 13:20	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 13:20	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 13:20	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 13:20	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 13:20	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 13:20	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/01/18 13:20	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40176708

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: P400 Lab ID: 40176708007 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 13:46	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 13:46	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 13:46	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 13:46	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 13:46	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 13:46	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 13:46	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 13:46	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/01/18 13:46	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M500 Lab ID: 40176708008 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 14:11	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 14:11	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 14:11	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 14:11	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 14:11	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 14:11	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 14:11	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 14:11	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/01/18 14:11	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: M600 Lab ID: 40176708009 Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	4.6J	ug/L	5.1	1.5	5		10/01/18 17:36	71-43-2	
Ethylbenzene	47.1	ug/L	5.5	1.6	5		10/01/18 17:36	100-41-4	
Methyl-tert-butyl ether	3.3J	ug/L	5.4	1.6	5		10/01/18 17:36	1634-04-4	
Naphthalene	83.2	ug/L	8.4	2.5	5		10/01/18 17:36	91-20-3	
Toluene	17.0	ug/L	8.2	2.4	5		10/01/18 17:36	108-88-3	
1,2,4-Trimethylbenzene	47.0	ug/L	5.7	1.7	5		10/01/18 17:36	95-63-6	
1,3,5-Trimethylbenzene	72.8	ug/L	5.4	1.6	5		10/01/18 17:36	108-67-8	
Xylene (Total)	188	ug/L	16.2	4.8	5		10/01/18 17:36	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		5		10/01/18 17:36	98-08-8	D3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40176708

Sample: P600 **Lab ID: 40176708010** Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	68.7	ug/L	1.0	0.31	1		10/02/18 09:01	71-43-2	
Ethylbenzene	25.4	ug/L	1.1	0.33	1		10/02/18 09:01	100-41-4	
Methyl-tert-butyl ether	1.9	ug/L	1.1	0.32	1		10/02/18 09:01	1634-04-4	
Naphthalene	51.4	ug/L	1.7	0.51	1		10/02/18 09:01	91-20-3	
Toluene	18.3	ug/L	1.6	0.49	1		10/02/18 09:01	108-88-3	
1,2,4-Trimethylbenzene	9.7	ug/L	1.1	0.34	1		10/02/18 09:01	95-63-6	
1,3,5-Trimethylbenzene	31.3	ug/L	1.1	0.33	1		10/02/18 09:01	108-67-8	
Xylene (Total)	37.5	ug/L	3.2	0.97	1		10/02/18 09:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		10/02/18 09:01	98-08-8	

Sample: M900 **Lab ID: 40176708011** Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 14:37	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 14:37	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 14:37	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 14:37	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 14:37	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 14:37	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 14:37	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 14:37	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/01/18 14:37	98-08-8	

Sample: P900 **Lab ID: 40176708012** Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 11:38	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 11:38	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 11:38	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 11:38	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 11:38	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 11:38	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 11:38	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 11:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%	80-120		1		10/01/18 11:38	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER

Pace Project No.: 40176708

Sample: HOUSE **Lab ID: 40176708013** Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 12:03	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:03	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 12:03	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 12:03	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 12:03	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 12:03	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 12:03	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 12:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		10/01/18 12:03	98-08-8	

Sample: TB **Lab ID: 40176708014** Collected: 09/26/18 00:00 Received: 09/28/18 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		10/01/18 15:28	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 15:28	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		10/01/18 15:28	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		10/01/18 15:28	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		10/01/18 15:28	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		10/01/18 15:28	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		10/01/18 15:28	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		10/01/18 15:28	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		10/01/18 15:28	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40176708

QC Batch: 301680 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40176708001, 40176708002, 40176708003, 40176708004, 40176708005, 40176708006, 40176708007, 40176708008, 40176708009, 40176708010, 40176708011

METHOD BLANK: 1762561 Matrix: Water
Associated Lab Samples: 40176708001, 40176708002, 40176708003, 40176708004, 40176708005, 40176708006, 40176708007, 40176708008, 40176708009, 40176708010, 40176708011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/01/18 09:55	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/01/18 09:55	
Benzene	ug/L	<0.31	1.0	10/01/18 09:55	
Ethylbenzene	ug/L	<0.33	1.1	10/01/18 09:55	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/01/18 09:55	
Naphthalene	ug/L	<0.51	1.7	10/01/18 09:55	
Toluene	ug/L	<0.49	1.6	10/01/18 09:55	
Xylene (Total)	ug/L	<0.97	3.2	10/01/18 09:55	
a,a,a-Trifluorotoluene (S)	%	100	80-120	10/01/18 09:55	

LABORATORY CONTROL SAMPLE & LCSD: 1762562 1762563

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.2	21.0	101	105	80-120	4	20	
1,3,5-Trimethylbenzene	ug/L	20	19.8	20.6	99	103	80-120	4	20	
Benzene	ug/L	20	19.8	20.5	99	103	80-120	3	20	
Ethylbenzene	ug/L	20	20.2	20.9	101	104	80-120	3	20	
Methyl-tert-butyl ether	ug/L	20	19.0	19.1	95	96	80-120	1	20	
Naphthalene	ug/L	20	19.3	19.7	96	98	80-120	2	20	
Toluene	ug/L	20	20.3	20.9	101	104	80-120	3	20	
Xylene (Total)	ug/L	60	59.8	61.9	100	103	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1762945 1762946

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40176708002 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	20.7	21.2	104	106	51-160	2	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	20.4	20.8	102	104	56-146	2	20
Benzene	ug/L	<0.31	20	20	20.4	20.2	102	101	71-137	1	20
Ethylbenzene	ug/L	<0.33	20	20	21.3	21.7	107	108	71-141	2	20
Methyl-tert-butyl ether	ug/L	<0.32	20	20	18.6	17.8	93	89	80-120	4	20
Naphthalene	ug/L	<0.51	20	20	19.6	19.5	98	97	67-138	1	20
Toluene	ug/L	<0.49	20	20	21.1	21.4	106	107	76-134	1	20
Xylene (Total)	ug/L	<0.97	60	60	62.8	63.7	105	106	69-138	1	20
a,a,a-Trifluorotoluene (S)	%						100	101	80-120		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40176708

QC Batch: 301683 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40176708012, 40176708013, 40176708014

METHOD BLANK: 1762572 Matrix: Water
Associated Lab Samples: 40176708012, 40176708013, 40176708014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	10/01/18 09:55	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	10/01/18 09:55	
Benzene	ug/L	<0.31	1.0	10/01/18 09:55	
Ethylbenzene	ug/L	<0.33	1.1	10/01/18 09:55	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	10/01/18 09:55	
Naphthalene	ug/L	<0.51	1.7	10/01/18 09:55	
Toluene	ug/L	<0.49	1.6	10/01/18 09:55	
Xylene (Total)	ug/L	<0.97	3.2	10/01/18 09:55	
a,a,a-Trifluorotoluene (S)	%	98	80-120	10/01/18 09:55	

LABORATORY CONTROL SAMPLE & LCSD: 1762573

Parameter	Units	1762574								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
1,2,4-Trimethylbenzene	ug/L	20	19.6	18.4	98	92	80-120	6	20	
1,3,5-Trimethylbenzene	ug/L	20	18.9	17.8	95	89	80-120	6	20	
Benzene	ug/L	20	19.4	18.9	97	95	80-120	3	20	
Ethylbenzene	ug/L	20	19.4	18.4	97	92	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	19.7	18.9	98	94	80-120	4	20	
Naphthalene	ug/L	20	18.8	18.6	94	93	80-120	1	20	
Toluene	ug/L	20	19.6	18.9	98	94	80-120	4	20	
Xylene (Total)	ug/L	60	58.3	55.2	97	92	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				100	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1762947

Parameter	Units	1762948										
		40176708012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	20.6	18.9	103	95	51-160	9	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	20.1	18.6	101	93	56-146	8	20	
Benzene	ug/L	<0.31	20	20	20.8	20.2	104	101	71-137	3	20	
Ethylbenzene	ug/L	<0.33	20	20	21.0	19.9	105	99	71-141	5	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	19.6	19.0	98	95	80-120	3	20	
Naphthalene	ug/L	<0.51	20	20	18.5	17.9	92	90	67-138	3	20	
Toluene	ug/L	<0.49	20	20	21.1	20.2	106	101	76-134	4	20	
Xylene (Total)	ug/L	<0.97	60	60	62.5	58.7	104	98	69-138	6	20	
a,a,a-Trifluorotoluene (S)	%						99	99	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WEBSTER
Pace Project No.: 40176708

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER

Pace Project No.: 40176708

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40176708001	P100	WI MOD GRO	301680		
40176708002	M200	WI MOD GRO	301680		
40176708003	P200	WI MOD GRO	301680		
40176708004	M300	WI MOD GRO	301680		
40176708005	P300	WI MOD GRO	301680		
40176708006	M400	WI MOD GRO	301680		
40176708007	P400	WI MOD GRO	301680		
40176708008	M500	WI MOD GRO	301680		
40176708009	M600	WI MOD GRO	301680		
40176708010	P600	WI MOD GRO	301680		
40176708011	M900	WI MOD GRO	301680		
40176708012	P900	WI MOD GRO	301683		
40176708013	HOUSE	WI MOD GRO	301683		
40176708014	TB	WI MOD GRO	301683		

REPORT OF LABORATORY ANALYSIS

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Sample Preservation Receipt Form

Client Name: Meridian

Project # 40176708

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

Lab Lot# of pH paper:

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

Initial when completed:

Date/Time:

Pace Lab #	Glass						Plastic						Vials				Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)			
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU								SP5T	ZPLC	GN
001																3																2.5 / 5 / 10
002																3																2.5 / 5 / 10
003																3																2.5 / 5 / 10
004																3																2.5 / 5 / 10
005																3																2.5 / 5 / 10
006																3																2.5 / 5 / 10
007																3																2.5 / 5 / 10
008																3																2.5 / 5 / 10
009																3																2.5 / 5 / 10
010																3																2.5 / 5 / 10
011																3																2.5 / 5 / 10
012																3																2.5 / 5 / 10
013																3																2.5 / 5 / 10
014																3																2.5 / 5 / 10
015																3																2.5 / 5 / 10
016																3																2.5 / 5 / 10
017																3																2.5 / 5 / 10
018																3																2.5 / 5 / 10
019																3																2.5 / 5 / 10
020																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	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO#: 40176708**

Client Name: Meridian

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 7829 7198 4780

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: N/A Corr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
Date: 9/28/18
Initials: _____

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>neg #, collect time</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>not re</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>IDs only</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>9/28/18</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>407</u>		

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

Project Manager Review: _____

Date: 9-28-18

December 18, 2018

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

RE: Project: WEBSTER
Pace Project No.: 40180655

Dear Kenneth Shimko:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: WEBSTER

Pace Project No.: 40180655

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

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SAMPLE SUMMARY

Project: WEBSTER

Pace Project No.: 40180655

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40180655001	MW-200	Water	12/05/18 00:00	12/07/18 10:05
40180655002	MW-300	Water	12/05/18 00:00	12/07/18 10:05
40180655003	MW-400	Water	12/05/18 00:00	12/07/18 10:05
40180655004	MW-500	Water	12/05/18 00:00	12/07/18 10:05
40180655005	MW-600	Water	12/05/18 00:00	12/07/18 10:05
40180655006	MW-900	Water	12/05/18 00:00	12/07/18 10:05
40180655007	P-100	Water	12/05/18 00:00	12/07/18 10:05
40180655008	P-200	Water	12/05/18 00:00	12/07/18 10:05
40180655009	P-300	Water	12/05/18 00:00	12/07/18 10:05
40180655010	P-400	Water	12/05/18 00:00	12/07/18 10:05
40180655011	P-600	Water	12/05/18 00:00	12/07/18 10:05
40180655012	P-900	Water	12/05/18 00:00	12/07/18 10:05
40180655013	HOUSE	Water	12/05/18 00:00	12/07/18 10:05
40180655014	TB	Water	12/05/18 00:00	12/07/18 10:05

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SAMPLE ANALYTE COUNT

Project: WEBSTER

Pace Project No.: 40180655

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180655001	MW-200	WI MOD GRO	ALD	9	PASI-G
40180655002	MW-300	WI MOD GRO	ALD	9	PASI-G
40180655003	MW-400	WI MOD GRO	ALD	9	PASI-G
40180655004	MW-500	WI MOD GRO	ALD	9	PASI-G
40180655005	MW-600	WI MOD GRO	ALD	9	PASI-G
40180655006	MW-900	WI MOD GRO	ALD	9	PASI-G
40180655007	P-100	WI MOD GRO	ALD	9	PASI-G
40180655008	P-200	WI MOD GRO	ALD	9	PASI-G
40180655009	P-300	WI MOD GRO	ALD	9	PASI-G
40180655010	P-400	WI MOD GRO	ALD	9	PASI-G
40180655011	P-600	WI MOD GRO	ALD	9	PASI-G
40180655012	P-900	WI MOD GRO	ALD	9	PASI-G
40180655013	HOUSE	WI MOD GRO	ALD	9	PASI-G
40180655014	TB	WI MOD GRO	ALD	9	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: WEBSTER
Pace Project No.: 40180655

Method: WI MOD GRO
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: December 18, 2018

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: 309084

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40180841005

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

- MSD (Lab ID: 1806072)
 - 1,2,4-Trimethylbenzene

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40180655

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-200 Lab ID: 40180655001 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 14:57	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 14:57	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 14:57	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 14:57	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 14:57	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 14:57	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 14:57	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 14:57	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 14:57	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-300 Lab ID: 40180655002 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 15:23	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 15:23	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 15:23	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 15:23	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 15:23	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 15:23	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 15:23	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 15:23	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 15:23	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-400 Lab ID: 40180655003 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 15:48	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 15:48	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 15:48	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 15:48	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 15:48	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 15:48	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 15:48	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 15:48	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 15:48	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40180655

Sample: MW-500 Lab ID: 40180655004 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 16:14	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 16:14	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 16:14	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 16:14	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 16:14	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 16:14	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 16:14	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 16:14	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 16:14	98-08-8	

Sample: MW-600 Lab ID: 40180655005 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	5.0	ug/L	2.0	0.61	2		12/11/18 19:38	71-43-2	
Ethylbenzene	34.3	ug/L	2.2	0.66	2		12/11/18 19:38	100-41-4	
Methyl-tert-butyl ether	1.9J	ug/L	2.1	0.64	2		12/11/18 19:38	1634-04-4	
Naphthalene	89.0	ug/L	3.4	1.0	2		12/11/18 19:38	91-20-3	
Toluene	12.6	ug/L	3.3	0.98	2		12/11/18 19:38	108-88-3	
1,2,4-Trimethylbenzene	28.9	ug/L	2.3	0.68	2		12/11/18 19:38	95-63-6	
1,3,5-Trimethylbenzene	60.8	ug/L	2.2	0.66	2		12/11/18 19:38	108-67-8	
Xylene (Total)	175	ug/L	6.5	1.9	2		12/11/18 19:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		2		12/11/18 19:38	98-08-8	

Sample: MW-900 Lab ID: 40180655006 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 16:39	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 16:39	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 16:39	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 16:39	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 16:39	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 16:39	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 16:39	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 16:39	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 16:39	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40180655

Sample: P-100 Lab ID: 40180655007 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	2710	ug/L	25.5	7.6	25		12/11/18 18:47	71-43-2	
Ethylbenzene	<8.2	ug/L	27.5	8.2	25		12/11/18 18:47	100-41-4	
Methyl-tert-butyl ether	<8.0	ug/L	26.8	8.0	25		12/11/18 18:47	1634-04-4	
Naphthalene	82.8	ug/L	42.0	12.6	25		12/11/18 18:47	91-20-3	
Toluene	65.0	ug/L	40.8	12.2	25		12/11/18 18:47	108-88-3	
1,2,4-Trimethylbenzene	<8.6	ug/L	28.5	8.6	25		12/11/18 18:47	95-63-6	
1,3,5-Trimethylbenzene	<8.2	ug/L	27.2	8.2	25		12/11/18 18:47	108-67-8	
Xylene (Total)	56.9J	ug/L	80.8	24.2	25		12/11/18 18:47	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		25		12/11/18 18:47	98-08-8	

Sample: P-200 Lab ID: 40180655008 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 20:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 20:29	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 20:29	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 20:29	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 20:29	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 20:29	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 20:29	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 20:29	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		12/11/18 20:29	98-08-8	

Sample: P-300 Lab ID: 40180655009 Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/11/18 20:55	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 20:55	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/11/18 20:55	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/11/18 20:55	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/11/18 20:55	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/11/18 20:55	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/11/18 20:55	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/11/18 20:55	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		12/11/18 20:55	98-08-8	

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ANALYTICAL RESULTS

Project: WEBSTER
Pace Project No.: 40180655

Sample: P-400 **Lab ID: 40180655010** Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/14/18 12:22	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:22	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/14/18 12:22	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/14/18 12:22	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/14/18 12:22	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/14/18 12:22	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:22	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/14/18 12:22	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/14/18 12:22	98-08-8	

Sample: P-600 **Lab ID: 40180655011** Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	314	ug/L	10.2	3.1	10		12/14/18 17:03	71-43-2	
Ethylbenzene	99.1	ug/L	11.0	3.3	10		12/14/18 17:03	100-41-4	
Methyl-tert-butyl ether	10.9	ug/L	10.7	3.2	10		12/14/18 17:03	1634-04-4	
Naphthalene	273	ug/L	16.8	5.1	10		12/14/18 17:03	91-20-3	
Toluene	121	ug/L	16.3	4.9	10		12/14/18 17:03	108-88-3	
1,2,4-Trimethylbenzene	46.2	ug/L	11.4	3.4	10		12/14/18 17:03	95-63-6	
1,3,5-Trimethylbenzene	140	ug/L	10.9	3.3	10		12/14/18 17:03	108-67-8	
Xylene (Total)	195	ug/L	32.3	9.7	10		12/14/18 17:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		10		12/14/18 17:03	98-08-8	

Sample: P-900 **Lab ID: 40180655012** Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/14/18 12:48	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:48	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/14/18 12:48	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/14/18 12:48	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/14/18 12:48	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/14/18 12:48	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:48	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/14/18 12:48	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/14/18 12:48	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WEBSTER

Pace Project No.: 40180655

Sample: HOUSE **Lab ID: 40180655013** Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/14/18 12:27	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:27	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/14/18 12:27	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/14/18 12:27	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/14/18 12:27	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/14/18 12:27	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 12:27	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/14/18 12:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/14/18 12:27	98-08-8	

Sample: TB **Lab ID: 40180655014** Collected: 12/05/18 00:00 Received: 12/07/18 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.31	ug/L	1.0	0.31	1		12/14/18 16:21	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 16:21	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/14/18 16:21	1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/14/18 16:21	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/14/18 16:21	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/14/18 16:21	95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/14/18 16:21	108-67-8	
Xylene (Total)	<0.97	ug/L	3.2	0.97	1		12/14/18 16:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/14/18 16:21	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40180655

QC Batch: 308879 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40180655001, 40180655002, 40180655003, 40180655004, 40180655005, 40180655006, 40180655007, 40180655008, 40180655009

METHOD BLANK: 1804376 Matrix: Water
Associated Lab Samples: 40180655001, 40180655002, 40180655003, 40180655004, 40180655005, 40180655006, 40180655007, 40180655008, 40180655009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/11/18 11:32	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/11/18 11:32	
Benzene	ug/L	<0.31	1.0	12/11/18 11:32	
Ethylbenzene	ug/L	<0.33	1.1	12/11/18 11:32	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/11/18 11:32	
Naphthalene	ug/L	<0.51	1.7	12/11/18 11:32	
Toluene	ug/L	<0.49	1.6	12/11/18 11:32	
Xylene (Total)	ug/L	<0.97	3.2	12/11/18 11:32	
a,a,a-Trifluorotoluene (S)	%	101	80-120	12/11/18 11:32	

Parameter	Units	1804377		1804378		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,2,4-Trimethylbenzene	ug/L	20	20.9	20.0	105	100	80-120	4	20
1,3,5-Trimethylbenzene	ug/L	20	20.2	19.4	101	97	80-120	4	20
Benzene	ug/L	20	21.1	20.2	106	101	80-120	4	20
Ethylbenzene	ug/L	20	21.1	20.3	105	102	80-120	3	20
Methyl-tert-butyl ether	ug/L	20	21.1	20.5	105	102	80-120	3	20
Naphthalene	ug/L	20	21.1	21.1	105	105	80-120	0	20
Toluene	ug/L	20	21.1	20.4	106	102	80-120	4	20
Xylene (Total)	ug/L	60	61.9	59.6	103	99	80-120	4	20
a,a,a-Trifluorotoluene (S)	%				103	104	80-120		

Parameter	Units	1804781		1804782		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
1,2,4-Trimethylbenzene	ug/L	<0.34	20	22.0	22.0	110	110	51-160	0	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	21.5	21.5	108	107	56-146	0	20
Benzene	ug/L	<0.31	20	22.4	22.5	112	113	71-137	0	20
Ethylbenzene	ug/L	<0.33	20	22.6	22.6	113	113	71-141	0	20
Methyl-tert-butyl ether	ug/L	<0.32	20	21.6	22.0	108	110	80-120	2	20
Naphthalene	ug/L	<0.51	20	24.1	24.7	121	123	67-138	2	20
Toluene	ug/L	<0.49	20	22.5	22.6	112	113	76-134	1	20
Xylene (Total)	ug/L	<0.97	60	65.9	66.1	110	110	69-138	0	20
a,a,a-Trifluorotoluene (S)	%					101	101	80-120		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40180655

QC Batch: 309083 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40180655010, 40180655011, 40180655012

METHOD BLANK: 1805438 Matrix: Water
Associated Lab Samples: 40180655010, 40180655011, 40180655012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/14/18 10:35	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/14/18 10:35	
Benzene	ug/L	<0.31	1.0	12/14/18 10:35	
Ethylbenzene	ug/L	<0.33	1.1	12/14/18 10:35	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/14/18 10:35	
Naphthalene	ug/L	<0.51	1.7	12/14/18 10:35	
Toluene	ug/L	<0.49	1.6	12/14/18 10:35	
Xylene (Total)	ug/L	<0.97	3.2	12/14/18 10:35	
a,a,a-Trifluorotoluene (S)	%	101	80-120	12/14/18 10:35	

LABORATORY CONTROL SAMPLE & LCSD: 1805439

Parameter	Units	1805440		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,2,4-Trimethylbenzene	ug/L	20	20.4	102	106	80-120	4	20	
1,3,5-Trimethylbenzene	ug/L	20	19.6	98	102	80-120	4	20	
Benzene	ug/L	20	20.4	102	103	80-120	1	20	
Ethylbenzene	ug/L	20	20.2	101	103	80-120	2	20	
Methyl-tert-butyl ether	ug/L	20	20.1	100	103	80-120	3	20	
Naphthalene	ug/L	20	19.2	96	104	80-120	8	20	
Toluene	ug/L	20	20.3	101	102	80-120	1	20	
Xylene (Total)	ug/L	60	59.9	100	102	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%			101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1805612

Parameter	Units	40180655010		1805613		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	21.2	21.5	106	107	51-160	1	20
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	20.6	20.9	103	104	56-146	1	20
Benzene	ug/L	<0.31	20	20	21.6	21.7	108	108	71-137	1	20
Ethylbenzene	ug/L	<0.33	20	20	21.5	21.9	108	109	71-141	1	20
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.6	20.5	103	103	80-120	0	20
Naphthalene	ug/L	<0.51	20	20	20.3	20.9	101	104	67-138	3	20
Toluene	ug/L	<0.49	20	20	21.4	21.7	107	108	76-134	1	20
Xylene (Total)	ug/L	<0.97	60	60	63.3	64.2	106	107	69-138	1	20
a,a,a-Trifluorotoluene (S)	%						102	102	80-120		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: WEBSTER
Pace Project No.: 40180655

QC Batch: 309084 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40180655013, 40180655014

METHOD BLANK: 1805444 Matrix: Water
Associated Lab Samples: 40180655013, 40180655014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/14/18 10:41	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/14/18 10:41	
Benzene	ug/L	<0.31	1.0	12/14/18 10:41	
Ethylbenzene	ug/L	<0.33	1.1	12/14/18 10:41	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/14/18 10:41	
Naphthalene	ug/L	<0.51	1.7	12/14/18 10:41	
Toluene	ug/L	<0.49	1.6	12/14/18 10:41	
Xylene (Total)	ug/L	<0.97	3.2	12/14/18 10:41	
a,a,a-Trifluorotoluene (S)	%	102	80-120	12/14/18 10:41	

LABORATORY CONTROL SAMPLE & LCSD: 1805445

Parameter	Units	1805446		LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result						
1,2,4-Trimethylbenzene	ug/L	20	22.1	110	111	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	21.5	107	108	80-120	0	20	
Benzene	ug/L	20	21.6	108	107	80-120	1	20	
Ethylbenzene	ug/L	20	21.9	109	109	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.1	101	101	80-120	0	20	
Naphthalene	ug/L	20	20.7	104	105	80-120	1	20	
Toluene	ug/L	20	21.6	108	108	80-120	1	20	
Xylene (Total)	ug/L	60	64.1	107	107	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%			101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1806071

Parameter	Units	40180841005		1806072		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	2110	400	400	2470	2130	90	6	51-160	15	20 M1
1,3,5-Trimethylbenzene	ug/L	857	400	400	1250	1100	98	61	56-146	13	20
Benzene	ug/L	37.1	400	400	438	446	100	102	71-137	2	20
Ethylbenzene	ug/L	455	400	400	871	849	104	98	71-141	3	20
Methyl-tert-butyl ether	ug/L	<6.4	400	400	401	403	100	101	80-120	0	20
Naphthalene	ug/L	245	400	400	613	600	92	89	67-138	2	20
Toluene	ug/L	569	400	400	980	969	103	100	76-134	1	20
Xylene (Total)	ug/L	1810	1200	1200	3010	2930	100	93	69-138	3	20
a,a,a-Trifluorotoluene (S)	%						104	102	80-120		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: WEBSTER
Pace Project No.: 40180655

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WEBSTER

Pace Project No.: 40180655

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40180655001	MW-200	WI MOD GRO	308879		
40180655002	MW-300	WI MOD GRO	308879		
40180655003	MW-400	WI MOD GRO	308879		
40180655004	MW-500	WI MOD GRO	308879		
40180655005	MW-600	WI MOD GRO	308879		
40180655006	MW-900	WI MOD GRO	308879		
40180655007	P-100	WI MOD GRO	308879		
40180655008	P-200	WI MOD GRO	308879		
40180655009	P-300	WI MOD GRO	308879		
40180655010	P-400	WI MOD GRO	309083		
40180655011	P-600	WI MOD GRO	309083		
40180655012	P-900	WI MOD GRO	309083		
40180655013	HOUSE	WI MOD GRO	309084		
40180655014	TB	WI MOD GRO	309084		

REPORT OF LABORATORY ANALYSIS

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Pace Container Order #421069

901 806 55

Addresses

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

Info

Project Name <u>Webster</u>	Due Date <u>11/20/2018</u>	Profile _____	Quote _____
Project Manager <u>Basten, Brian</u>	Return _____	Carrier <u>Most Economical</u>	Location <u>WI</u>

Trip Blanks

Include Trip Blanks

Bottle Labels

- Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

- Boxed Cases
 Individually Wrapped
 Grouped By Sample

Return Shipping Labels

- No Shipper Number
 With Shipper Number

Misc

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

COC Options

- Number of Blanks 2
 Pre-Printed _____

# of Samples	Matrix	Test	Container	Total	# of QC	Lot #	Notes
14	WT	PVOC	3-40mL glass vial w/ HCl	42	0	B-8-286-01VB	
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-8-141-01VB	

Hazard Shipping Placard In Place : NA

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

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

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

*Payment term are net 30 days.

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

Sample Notes

Ship Date : 11/15/2018

Prepared By: Mai Yer Her

Verified By:

Sample Preservation Receipt Form

Client Name: Meridian

Project # 40180655

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							Plastic							Vials					Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)				
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC								GN			
001																																				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																																				2.5 / 5 / 10

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40180655



Client Name: Meridian

Courier: CS Logistics Fed Ex Speedee UPS Walto
 Client Pace Other: _____

Tracking #: 784228322140

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: _____ /Corr: Ro

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 12/7/18
 Initials: [Signature]

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2.	<u>time, project #</u> <u>[Signature]</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	<u>no time</u> <u>[Signature]</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume:		8.	
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	<u>ID only</u> <u>[Signature]</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>			
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>410</u>			

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

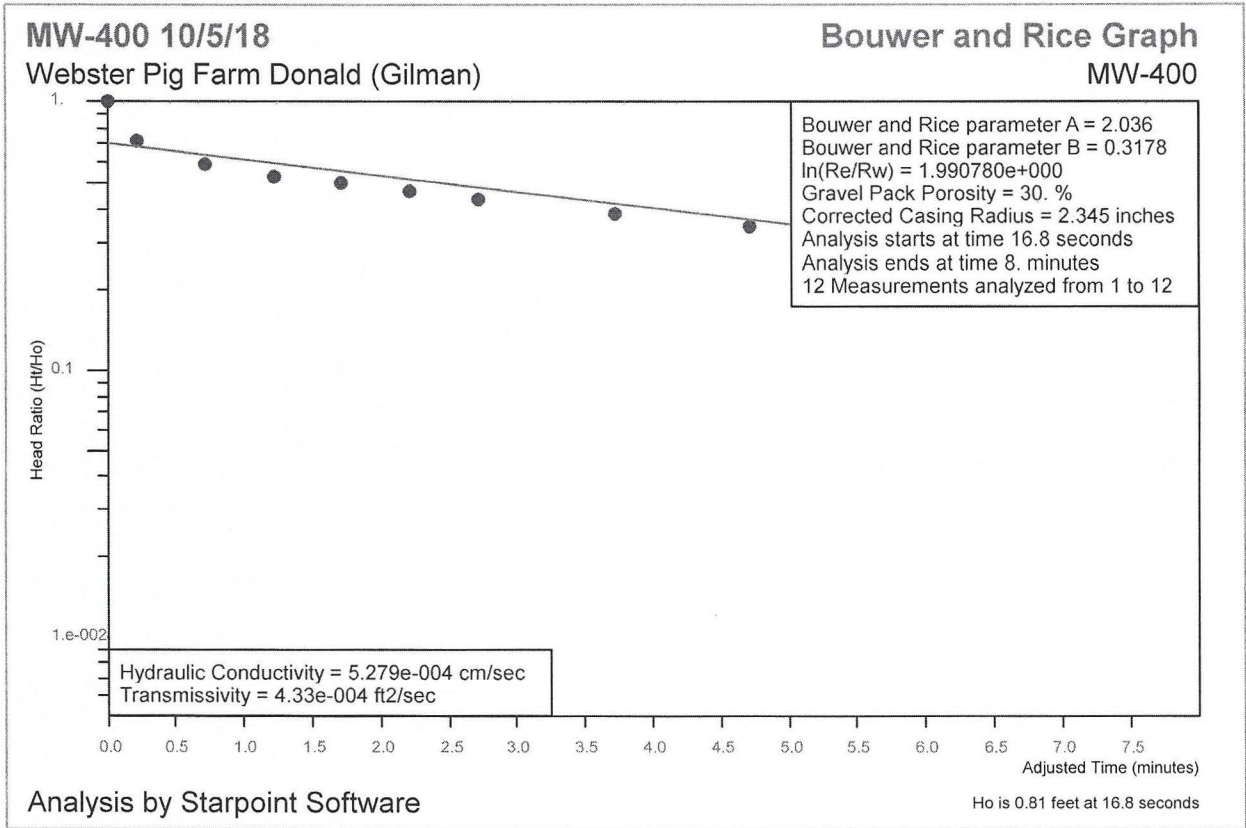
Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 12-7-18

APPENDIX B

Hydraulic Conductivity Testing Results



Bouwer and Rice Automatic Parameter Estimation

MW-400

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

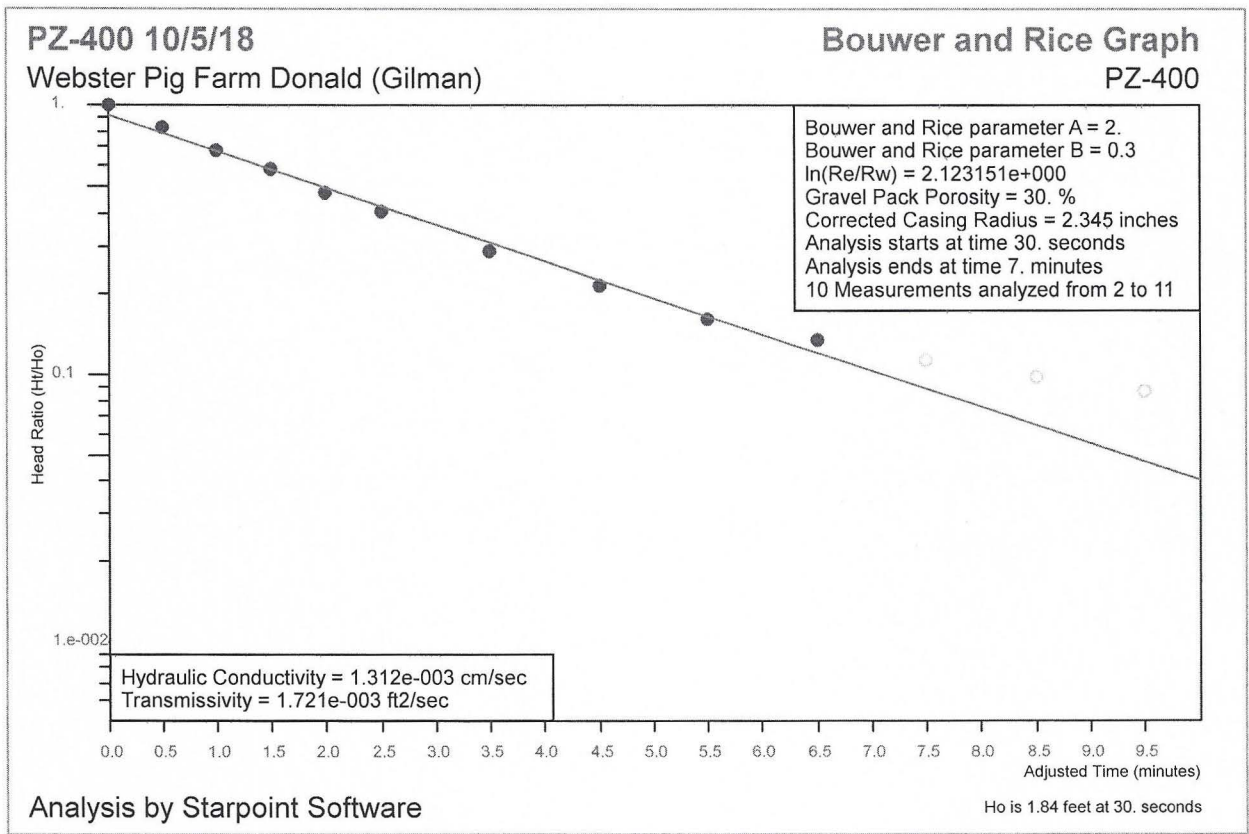
Well Label: MW-400
 Aquifer Thickness: 25. feet
 Screen Length: 10. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 2.036
 Bouwer and Rice Parameter B: 0.3178
 Radius of Influence of Test: 2.44 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
1	0.	0.81	1.	--	
2	0.22	0.58	0.716	5.293e-003	7.777
3	0.72	0.48	0.5926	2.534e-003	3.081
4	1.22	0.43	0.5309	1.81e-003	1.971
5	1.72	0.41	0.5062	1.38e-003	1.433
6	2.22	0.38	0.4691	1.189e-003	1.144
7	2.72	0.35	0.4321	1.075e-003	0.9536
8	3.72	0.31	0.3827	9.001e-004	0.7069
9	4.72	0.28	0.3457	7.846e-004	0.5565
10	5.72	0.26	0.321	6.926e-004	0.4562
11	6.72	0.23	0.284	6.531e-004	0.3806
12	7.72	0.22	0.2716	5.886e-004	0.3281

Arithmetic Means:
 Hydraulic Conductivity: 1.536e-003 cm/sec
 Transmissivity: 1.26e-003 ft²/sec

Geometric Means:
 Hydraulic Conductivity: 1.209e-003 cm/sec
 Transmissivity: 9.914e-004 ft²/sec

Sensitivity Analysis:
 Hydraulic Conductivity: 9.871e-004 cm/sec
 Transmissivity: 8.096e-004 ft²/sec



Webster Pig Farm

Bouwer and Rice Automatic Parameter Estimation

PZ-400

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

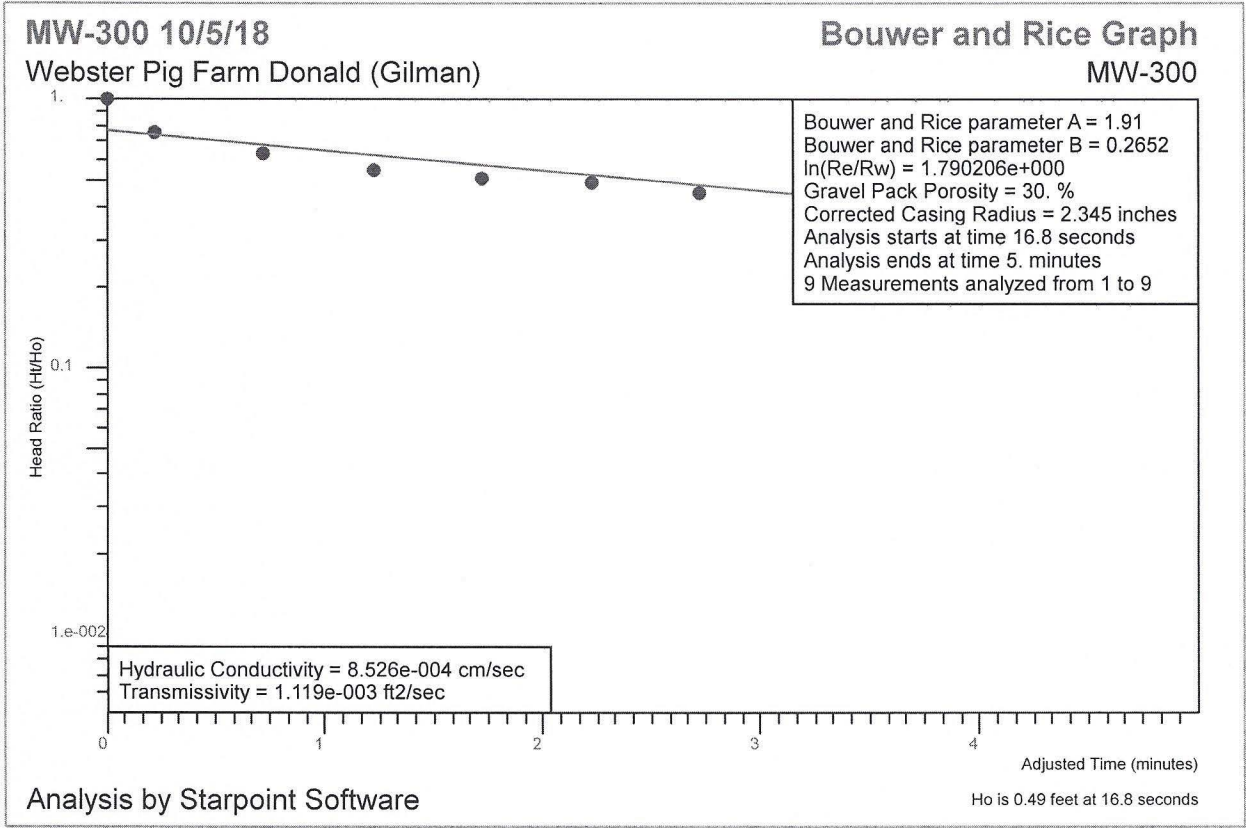
Well Label: PZ-400
 Aquifer Thickness: 40. feet
 Screen Length: 5. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 2.
 Bouwer and Rice Parameter B: 0.3
 Radius of Influence of Test: 2.786 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
2	0.	1.84	1.	--	
3	0.5	1.52	0.8261	1.574e-003	2.842
4	1.	1.26	0.6848	1.56e-003	2.334
5	1.5	1.06	0.5761	1.515e-003	1.907
6	2.	0.88	0.4783	1.519e-003	1.588
7	2.5	0.75	0.4076	1.479e-003	1.317
8	3.5	0.53	0.288	1.465e-003	0.9222
9	4.5	0.4	0.2174	1.397e-003	0.6637
10	5.5	0.3	0.163	1.359e-003	0.4841
11	6.5	0.25	0.1359	1.265e-003	0.3756

Arithmetic Means:
 Hydraulic Conductivity: 1.459e-003 cm/sec
 Transmissivity: 1.915e-003 ft²/sec

Geometric Means:
 Hydraulic Conductivity: 1.456e-003 cm/sec
 Transmissivity: 1.911e-003 ft²/sec

Sensitivity Analysis:
 Hydraulic Conductivity: 1.456e-003 cm/sec
 Transmissivity: 1.911e-003 ft²/sec



Bouwer and Rice Automatic Parameter Estimation

MW-300

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

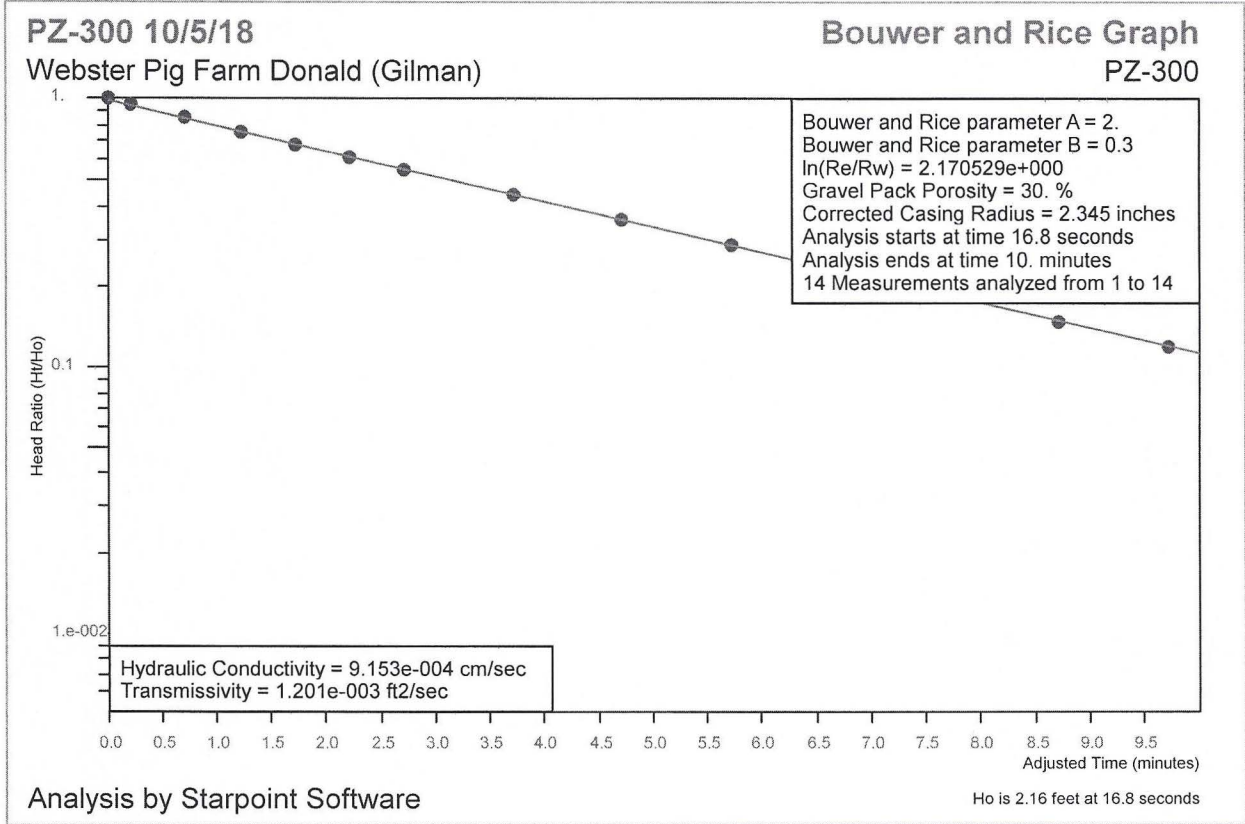
Well Label: MW-300
 Aquifer Thickness: 40. feet
 Screen Length: 10. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 1.91
 Bouwer and Rice Parameter B: 0.2652
 Radius of Influence of Test: 1.997 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
1	0.	0.49	1.	--	
2	0.22	0.37	0.7551	5.882e-003	6.131
3	0.72	0.31	0.6327	2.929e-003	2.558
4	1.22	0.27	0.551	2.25e-003	1.712
5	1.72	0.25	0.5102	1.802e-003	1.269
6	2.22	0.24	0.4898	1.481e-003	1.001
7	2.72	0.22	0.449	1.356e-003	0.8406
8	3.72	0.2	0.4082	1.11e-003	0.6253
9	4.72	0.19	0.3878	9.247e-004	0.495

Arithmetic Means:
 Hydraulic Conductivity: 2.217e-003 cm/sec
 Transmissivity: 2.909e-003 ft²/sec

Geometric Means:
 Hydraulic Conductivity: 1.861e-003 cm/sec
 Transmissivity: 2.443e-003 ft²/sec

Sensitivity Analysis:
 Hydraulic Conductivity: 1.454e-003 cm/sec
 Transmissivity: 1.908e-003 ft²/sec



Bouwer and Rice Automatic Parameter Estimation

PZ-300

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

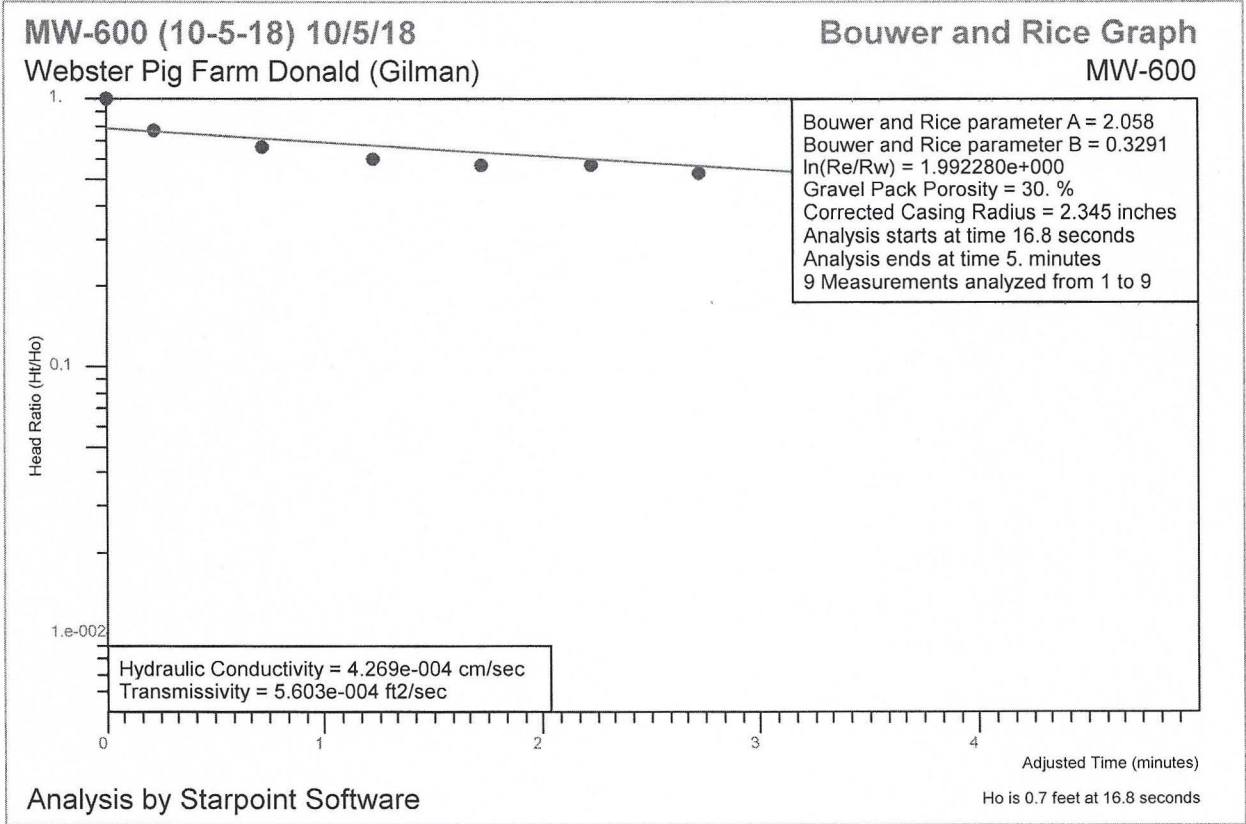
Well Label: PZ-300
 Aquifer Thickness: 40. feet
 Screen Length: 5. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 2.
 Bouwer and Rice Parameter B: 0.3
 Radius of Influence of Test: 2.921 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
1	0.	2.16	1.	--	
2	0.22	2.05	0.9491	1.001e-003	2.383
3	0.72	1.84	0.8519	9.379e-004	2.005
4	1.22	1.64	0.7593	9.507e-004	1.812
5	1.72	1.48	0.6852	9.257e-004	1.592
6	2.22	1.32	0.6111	9.343e-004	1.433
7	2.72	1.19	0.5509	9.23e-004	1.276
8	3.72	0.95	0.4398	9.299e-004	1.026
9	4.72	0.77	0.3565	9.203e-004	0.8233
10	5.72	0.62	0.287	9.19e-004	0.662
11	6.72	0.5	0.2315	9.17e-004	0.5327
12	7.72	0.41	0.1898	9.065e-004	0.4318
13	8.72	0.32	0.1481	9.222e-004	0.3429
14	9.72	0.26	0.1204	9.173e-004	0.2771

Arithmetic Means:
 Hydraulic Conductivity: 9.311e-004 cm/sec
 Transmissivity: 1.222e-003 ft²/sec

Geometric Means:
 Hydraulic Conductivity: 9.309e-004 cm/sec
 Transmissivity: 1.222e-003 ft²/sec

Sensitivity Analysis:
 Hydraulic Conductivity: 9.231e-004 cm/sec
 Transmissivity: 1.211e-003 ft²/sec



Bouwer and Rice Automatic Parameter Estimation

MW-600 (10-5-18)

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

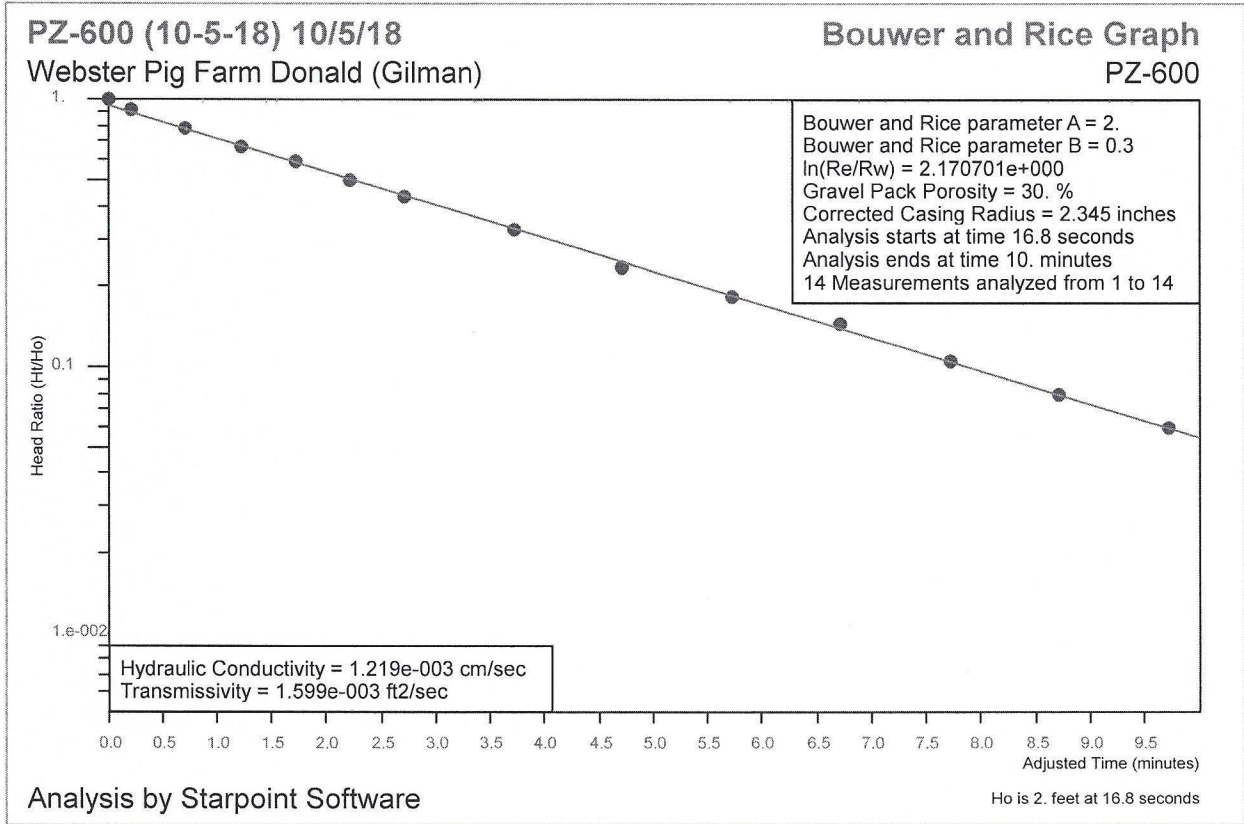
Well Label: MW-600
 Aquifer Thickness: 40. feet
 Screen Length: 10. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 2.058
 Bouwer and Rice Parameter B: 0.3291
 Radius of Influence of Test: 2.444 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
1	0.	0.7	1.	--	
2	0.22	0.54	0.7714	3.858e-003	5.274
3	0.72	0.47	0.6714	1.809e-003	2.153
4	1.22	0.42	0.6	1.369e-003	1.456
5	1.72	0.4	0.5714	1.064e-003	1.077
6	2.22	0.4	0.5714	8.244e-004	0.8348
7	2.72	0.37	0.5286	7.666e-004	0.718
8	3.72	0.36	0.5143	5.846e-004	0.5328
9	4.72	0.34	0.4857	5.004e-004	0.4307

Arithmetic Means:
 Hydraulic Conductivity: 1.347e-003 cm/sec
 Transmissivity: 1.768e-003 ft²/sec

Geometric Means:
 Hydraulic Conductivity: 1.082e-003 cm/sec
 Transmissivity: 1.42e-003 ft²/sec

Sensitivity Analysis:
 Hydraulic Conductivity: 7.769e-004 cm/sec
 Transmissivity: 1.02e-003 ft²/sec



Bouwer and Rice Automatic Parameter Estimation

PZ-600 (10-5-18)

Site Name: Webster Pig Farm
 Location: Donald (Gilman)
 Test Date: 10/5/18

Well Label: PZ-600
 Aquifer Thickness: 40. feet
 Screen Length: 5. feet
 Casing Radius: 1. inches
 Effective Radius: 4. inches
 Gravel Pack Porosity: 30. %
 Corrected Casing Radius: 2.345 inches
 Bouwer and Rice Parameter A: 2.
 Bouwer and Rice Parameter B: 0.3
 Radius of Influence of Test: 2.921 feet

Trial	Adjusted Time (minutes)	Head (feet)	Head Ratio	Hyd. Con. (cm/sec)	Flow to Well (meters ³ /day)
1	0.	2.	1.	--	
2	0.22	1.86	0.93	1.389e-003	3.002
3	0.72	1.58	0.79	1.379e-003	2.531
4	1.22	1.34	0.67	1.383e-003	2.152
5	1.72	1.17	0.585	1.313e-003	1.784
6	2.22	1.01	0.505	1.296e-003	1.521
7	2.72	0.87	0.435	1.289e-003	1.303
8	3.72	0.65	0.325	1.273e-003	0.9609
9	4.72	0.47	0.235	1.292e-003	0.7056
10	5.72	0.37	0.185	1.242e-003	0.5341
11	6.72	0.29	0.145	1.21e-003	0.4077
12	7.72	0.21	0.105	1.23e-003	0.3
13	8.72	0.16	8.e-002	1.22e-003	0.2268
14	9.72	0.12	6.e-002	1.219e-003	0.17

Arithmetic Means:

Hydraulic Conductivity: 1.287e-003 cm/sec
 Transmissivity: 1.689e-003 ft²/sec

Geometric Means:

Hydraulic Conductivity: 1.286e-003 cm/sec
 Transmissivity: 1.687e-003 ft²/sec

Sensitivity Analysis:

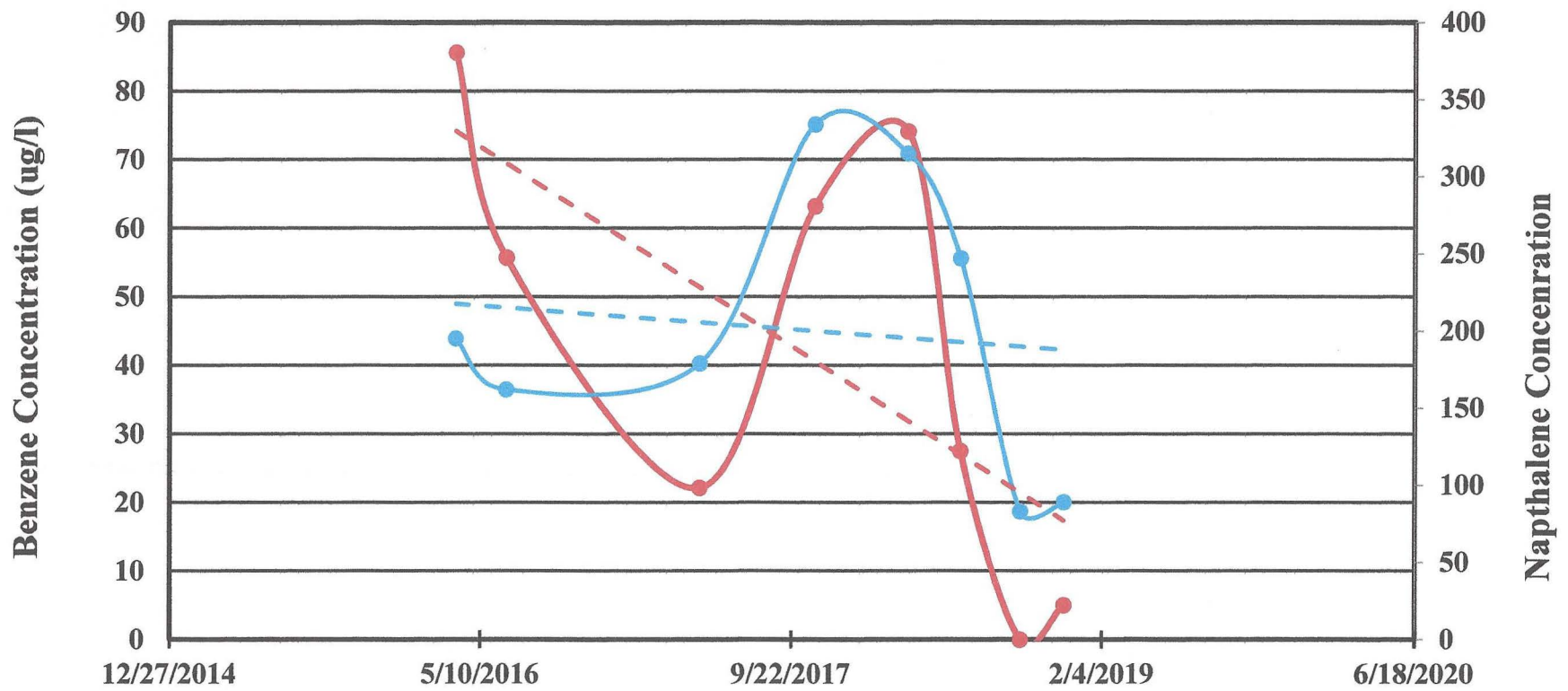
Hydraulic Conductivity: 1.282e-003 cm/sec
 Transmissivity: 1.682e-003 ft²/sec

APPENDIX C

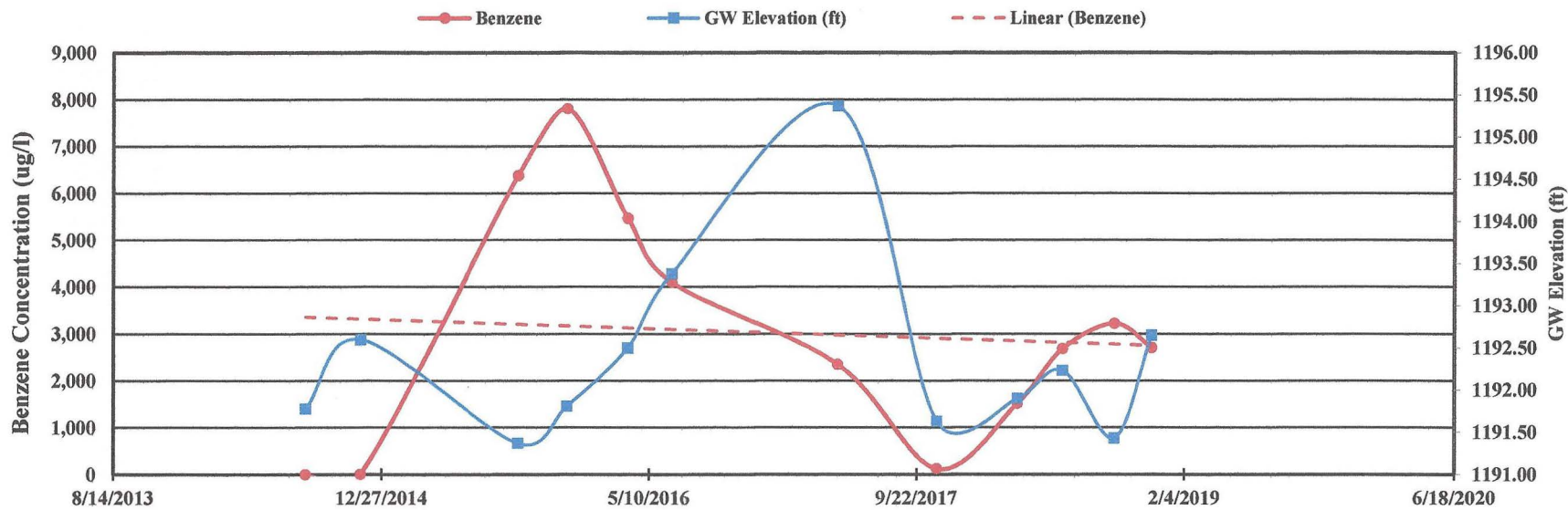
Graphs of Ground Water Concentrations Over Time

MW-600 (last 2 years)

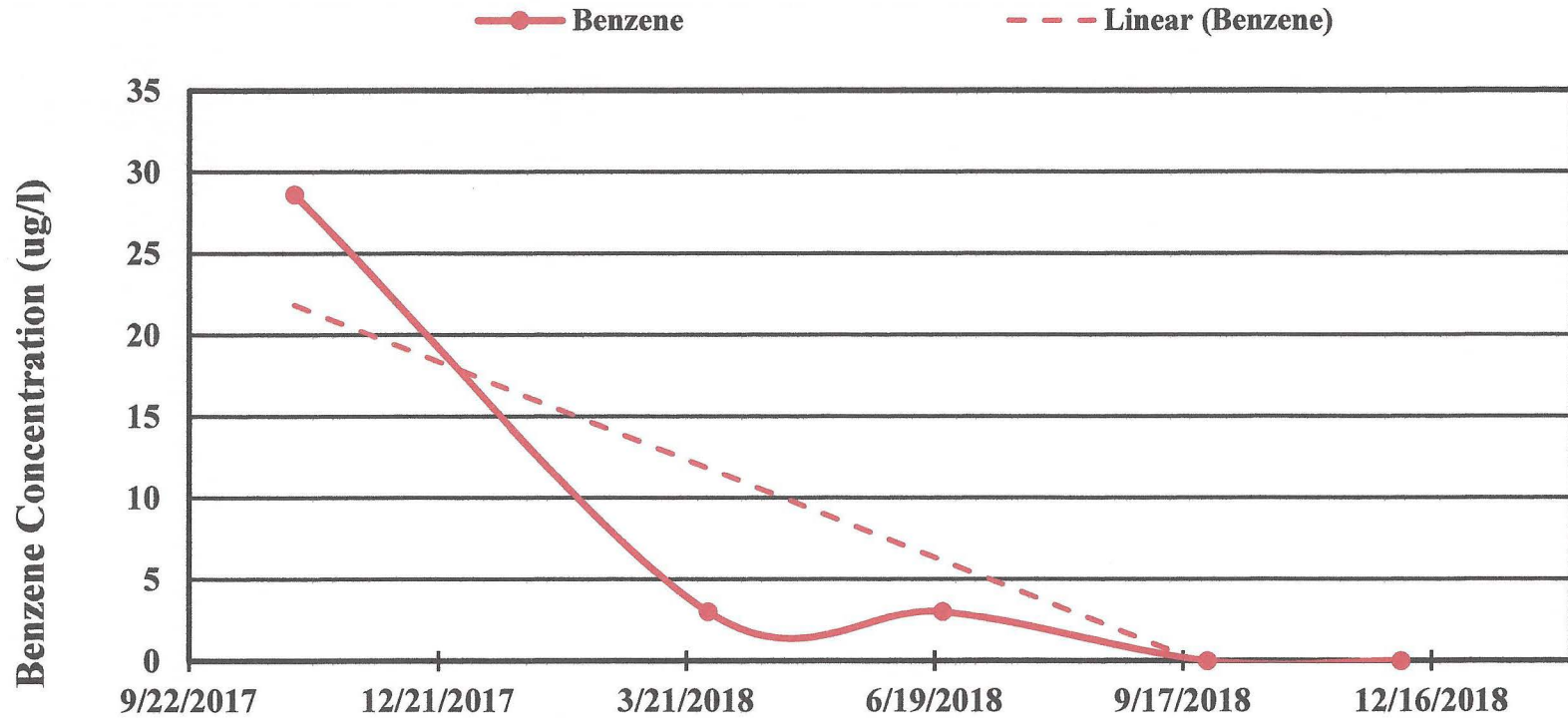
● Benzene ● Naphthalene - - - Linear (Benzene) - - - Linear (Naphthalene)



PZ-100 (since August 2014 Remedial Excavation)



PZ-400 (last 2 years)



PZ-600

● Benzene ● Naphthalene — Linear (Benzene) — Linear (Naphthalene)

