



April 5, 2017

**Wisconsin Department of Natural Resources**

Attn: Mr. Ralph Smith  
101 S. Webster Street  
PO Box 7921  
Madison, WI 53707-7921



**Subject:**

Environmental Site Investigation Report  
Hedlund DX  
10557 State Highway 70  
Falun, WI  
BRRTS #03-07-000151  
PECFA #54840-9999-00

**Dear Mr. Smith:**

Enclosed is the Environmental Site Investigation Report for the above-mentioned site. REI identified significant petroleum related soil contamination and groundwater impact. REI is recommending the completion of a soil excavation to address the residual soil contamination followed by quarterly groundwater sampling through case closure consideration.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at [dlarsen@reiengineering.com](mailto:dlarsen@reiengineering.com).

Sincerely,  
REI Engineering, Inc.

David N. Larsen, P.G.  
Hydrogeologist/Project Manager

Enclosure

CC: Burnett County, Attn: Mr. Nathan Ehalt, 7410 County Road K, #116, Webster, WI 54872



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# **REI**

**CIVIL & ENVIRONMENTAL  
ENGINEERING, SURVEYING**

## **ENVIRONMENTAL SITE INVESTIGATION REPORT**

**HEDLUND DX  
FALUN, WISCONSIN**

**WDNR BRRTS #03-07-000151**

**PECFA #54840-9999-00**

**REI PROJECT #7367**



**COMPREHENSIVE  
SERVICES WITH  
PRACTICAL  
SOLUTIONS**





# **ENVIRONMENTAL SITE INVESTIGATION REPORT**

**HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WI**

**BRRTS #03-07-000151  
PECFA #54840-9999-00**

**REI #7367**



## **PREPARED FOR:**

**Burnett County  
Attn: Mr. Nathan Ehalt  
7410 Cty Road K, #116  
Siren, WI 54872**

**APRIL 2017**

# ENVIRONMENTAL SITE INVESTIGATION REPORT

**HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WI**

**BRRTS #03-07-000151  
PECFA #54840-9999-00**

**REI #7367**

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

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



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

  
\_\_\_\_\_  
Environmental Scientist

  
\_\_\_\_\_  
Date



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# **ENVIRONMENTAL SITE INVESTIGATION REPORT**

**HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WI**

**BRRTS #03-07-000151  
PECFA #54840-9999-00**

**REI #7367**

## **1.0 INTRODUCTION**

### **1.1 Purpose of Report**

The Hedlund Oil Company, and others, had historically operated retail gas station and automotive repair shop on the subject property since the 1920's. This report presents the results of an Environmental Site Investigation performed at the former Hedlund DX site in Falun, Wisconsin. The purpose of the investigation was to determine the source, as well as the degree and extent of petroleum related contamination of soil, groundwater and soil gases. The Wisconsin Department of Natural Resources (WDNR) was notified of a petroleum release at the Hedlund DX location on February 9, 1990. A Site Investigation Workplan was submitted to the WDNR on July 16, 2016.

### **1.2 Site Background**

#### **1.2.1 Site Description**

The Hedlund DX site is located in the NW  $\frac{1}{4}$  of the NW  $\frac{1}{4}$  of Section 19, Township 38 North, Range 17 West, in the Town of Daniels, Burnett County, Wisconsin (Figure 1). The site address is 10557 State Highway 70, Falun, Wisconsin 54840. Wisconsin Transverse Mercator (WTM) coordinates are 323585, 591806.

Two (2) underground storage tanks (UST) were known to have been used on the property. A 500-gallon UST was located on the west side of the property and a 1,000-gallon UST was located on the east side of the former Hedlund DX building. The 1,000-gallon UST was not installed on the Hedlund DX property, rather it was installed on the neighboring property to the east. REI was not able to secure access to investigate the potential release from the 1,000-gallon UST from the current owners of the adjacent property. Additional investigation into a potential release from the 1,000-gallon UST is warranted.

The neighboring properties are as follows:

|        |                                                                         |
|--------|-------------------------------------------------------------------------|
| North: | Highway 70                                                              |
| East:  | Bobs Service (open environmental investigation) with residential beyond |
| South: | Undeveloped with Wood River beyond                                      |
| West:  | Backwoods Beer and Bait with residential beyond                         |

### **1.2.2 Current Site Operation**

The property is currently vacant, unimproved and gravel covered. The property is currently being used as a parking area for both the neighboring bait shop and automotive repair shop. Following the removal of the underground storage tanks in 1988 the property was abandoned. The property was eventually acquired by Burnett County and a WDNR Brownfields Site Assessment was awarded in 2005 which resulted in razing the building.

### **1.2.3 Previous Investigations**

The Hedlund DX release notification was prompted by WDOT contractors advancing soil borings prior to the reconstruction of State Highway 70 in 1989. The WDOT contractors advanced a total of five (5) borings within WDOT right-of-way to determine the extent of the release. Following the WDOT investigation, Foth & Van Dyke were retained to investigate the petroleum release. Three (3) monitoring wells and three (3) soil borings were advanced under the direction of Foth & Van Dyke. Information specific to the WDOT and Foth & Van Dyke investigations are included in Appendix A.

The Hedlund DX site was the focus of a WDNR Brownfields Site Assessment Grant (BRRTS 07-07-537406), which was awarded in 2005. Other than the release from the PECFA eligible petroleum system and the Brownfields Site Assessment Grant, no other releases have been reported at this location.

### **1.3 Potable Water Survey**

The area is serviced by private potable water supply wells and septic systems. Copies of local potable well construction logs are included in Appendix B.

### **1.4 Other Sources of Contamination**

A review of the Wisconsin Department of Natural Resources (WDNR) Spills and Leaking Underground Storage Tank (LUST) list was performed for the surrounding area. According to the Bureau of Remediation and Redevelopment Tracking System (BRRTS) other potential release locations have been identified.

- Bobs Service Station (03-07-000148), 10545 State Highway 70. This property is located immediately east of the Hedlund DX property. This release was reported to the WDNR in 1990 and is still listed as an open investigation.
- Bobs Service (04-07-214719), 10545 State Highway 70. This release was associated with a fuel spill that occurred during the removal of the UST's. This release was reported to the WDNR in 1993 and was closed out in 1994.
- Andy's Bait Shop (03-07-000108) 10561 State Highway 70 (current location of Backwoods Beer and Bait). This property is immediately west of the Hedlund DX property. Petroleum impact to the potable water supply well was the trigger for the release notification. This release was reported to the WDNR in 1981 and was closed out in 2002 after it was determined that the Hedlund DX site had impacted the Andy's Bait Shop well. The impacted potable water supply well was later replaced with a new drilled well.

## **2.0 METHOD OF INVESTIGATION**

### **2.1 Soil**

The borings were placed to aid in the determination of the lateral and vertical extents of the petroleum contamination. A total of eleven (11) soil borings were advanced during the initial site investigation efforts conducted for WDOT and by Foth & Van Dyke. A total of seventeen (17) borings were advanced under the direction of REI. REI advanced a total of seven (7) Geoprobe soil borings and ten (10) monitoring wells.

The WDOT and Foth & Van Dyke advanced boring locations are presented in Appendix A. The REI advanced soil boring locations are shown on Figure 2. Additional information regarding site specific soil characteristics and contaminant concentrations will be detailed in later sections of this report.

Soil Boring Logs (WDNR Form 4400-122) are included in Appendix C. Monitoring Well Construction Forms (WDNR Form 4400-133A) are included in Appendix D. Monitoring Well Development Forms (WDNR Form 4400-133B) are included in Appendix E. Borehole Abandonment Forms (WDNR Form 3300-5) are included in Appendix F. Field sampling methods and procedures are included in Appendix G. Investigative waste disposal is included in Appendix H.

### **2.2 Groundwater**

A total of thirteen (13) groundwater monitoring wells have been advanced to determine if the observed petroleum related soil contamination had impacted the groundwater at the Hedlund DX site. Three (3) monitoring wells, MW1, MW3 and MW4 were installed under the direction of Foth & Van Dyke. Wells MW3 and MW4 were later lost during the SAG grant scope of services. REI was informed that the flushmount covers were likely removed during the concrete removal and then covered with gravel. Abandonment forms were not completed and this may be an issue at time of closure if the wells are not located during the completion of the site investigation.



Ten (10) additional monitoring wells MW2-MW11 were installed under the direction of REI. Depths to groundwater and groundwater elevation measurements were collected during each well sampling event. The samples were placed in laboratory provided containers and submitted to a State Certified Laboratory for analysis. Additional information regarding site specific groundwater characteristics are presented in later sections of this report.

### **3.0 SUMMARY OF FIELD INVESTIGATION RESULTS**

#### **3.1 Regional Geology and Hydrogeology**

Site specific topography is relatively flat with a slight grade to the south, southwest. The area is situated within the St. Croix River Basin of Wisconsin, with the Wood River as the primary drainage feature for the area (Young and Hindall, 1973).

The geology and water resources of the basin were described by Young and Hindall (1973). Briefly, the surficial geology consists of glacially derived sediments ranging from outwash plains to end moraines. The glacial deposits are underlain by Precambrian basaltic lava flows classified by Young and Hindall (1973). The depth to bedrock typically is greater than 100 feet (Trotta and Cotter, 1973).

The geology and water resources of the basin as described by Young and Hindall (1973) indicate that almost the entire St. Croix River basin is covered with unconsolidated deposits consisting of unpitted outwash, pitted outwash, lake deposits, end moraines and ground moraines. The outwash deposits are typically less than 50 feet in thickness but may be thicker over channels in bedrock. Soil permeability's for the soils as described on the site are 0.8 to 2.5 inches per hour. The average annual precipitation in the area is about 29.3 inches. The typical evapotranspiration rate is about 20.3 inches per year, leaving about 9.0 inches per year for both groundwater recharge and surface runoff Young and Hindall (1973). The regional groundwater recharge rate will be assumed to be the NR 720.09(3) default rate of 10.0 inches per year. Site specific topography grades to the southwest. Land surface elevations in the area are about 960 +/- 5 feet above Mean Sea Level (U.S.G.S. Falun 7 1/2-minute quadrangle map).

### **3.2 Site Specific Geology and Hydrogeology**

The soil borings performed during the Hedlund DX investigation indicate the site geology consists mainly of gravel and sand fill material overlying clay to a depth of approximately fourteen (14) feet below land surface (bls) to encounter of saturated fine to medium grained sands. Figures 3a-b presents the geologic cross sections of the soils identified at the site.

Artesian groundwater conditions exist at the Hedlund DX site. While the average depth to groundwater measured in the monitoring wells is approximately three (3) feet bls, groundwater was first encountered at the site at a depth of approximately fourteen (14) feet bls. Groundwater was encountered in the saturated sand located immediately beneath a confining clay layer at a depth of approximately fourteen (14) feet bls. Therefore, the physical and hydraulic properties of the saturated fine to medium grained sand probably are most representative of the material below the water table through which most contaminant travel occurs.

#### **3.2.1 Site Hydrogeology**

Depths to groundwater were measured in the monitoring wells as part of each sampling event. While artesian conditions are reported at the site, groundwater flow directions were determined based on measured depths to groundwater in each well. The groundwater flow contour maps for September 14, 2016 and January 12, 2017 are presented in Figure 4a and 4b respectively. Each documents a southwesterly groundwater flow direction which is consistent with the flow directions from the previous investigation.

Hydraulic conductivities were calculated during the Foth & Van Dyke investigation for wells MW1, MW3 and MW4. Copies of the calculated hydraulic conductivity output is included in Appendix A. Calculated hydraulic conductivity results ranged from a low of 0.00023 cm/sec at MW1 to a high of 0.0002 cm/sec at MW4. Contaminant velocities will be less than groundwater velocities, and will depend on the retardation factors for each contaminant.

Hydraulic gradients were calculated between MW6 and MW4 for the January 12, 2017 sample date. The hydraulic gradient was calculated at 0.006 ft./ft. The average linear velocity is estimated to be approximately 3.13 feet per year, which is based on the estimated horizontal hydraulic conductivity, the horizontal gradients observed at the site and effective porosity of the soil.

### **3.3 Nature and Extent of Soil Contamination**

Figure 2 documents the locations of the soil borings advanced during the site investigation. Soil samples were obtained to describe the lateral and vertical extent of the petroleum contamination in the subsurface. Analytical results were directly compared against the State of Wisconsin's cleanup criteria listed in the Chapter NR720. Numerous soil sample locations document the presence of petroleum compounds exceeding the NR720.09 (04) Residual Contaminant Level (RCL).

A total of thirty-four (34) soil samples were collected and submitted for laboratory analysis during the investigation. Tables 1a-c present the results from the thirty-four (34) soil borings advanced during the investigation. Copies of the soil laboratory analytical reports are included in Appendix I.

Based on field screening and analytical results, the estimated extent of pre-remedial soil contamination associated with the petroleum release at the Hedlund DX site encompasses an area of approximately 3,600 square feet. Figure 5 presents the estimated extent of petroleum impacted soil contamination at the Hedlund DX site associated with the petroleum release.

### **3.4 Nature and Extent of Groundwater Contamination**

Numerous groundwater-sampling events have been conducted during the site investigation. Depth to water and water level elevations were measured for each REI sampling event and are presented in Table 2. Analysis of the groundwater samples from the groundwater sampling events indicates detectable petroleum compounds above NR 140.10 Groundwater Quality Enforcement Standards (ES) and laboratory qualified Preventive Action Limits (PAL) exceedances in numerous sample locations. A summary of groundwater analytical results is presented in

Tables 3a-o. Copies of the groundwater laboratory analytical reports are included in Appendix I. All development and purge water was transported either to the Village of Luck or City of Wausau for disposal in their waste water treatment system.

Petroleum related groundwater contamination was observed in monitoring wells MW2-MW6. Tetrachloroethelene detections were reported in wells MW8 and MW9. The source of the tetrachloroethelene is not known but it not related to the petroleum release. Figure 6 presents the estimated area of petroleum related groundwater contamination associated with the release from the Hedlund DX site in Daniels, Wisconsin.

### **3.5 Vapor Intrusion Screening Analysis**

Vapor intrusion screening is used to determine the potential for vapor migration from a contaminated property. Vapor intrusion of petroleum compounds most often occurs when free phase petroleum compounds are located near building foundations, where petroleum impacted groundwater has entered a building, or when petroleum contaminated groundwater is in contact with a building foundation.

Vapor intrusion from petroleum releases tend to occur near the source of the petroleum release and are often detected by smelling petroleum odors in the building. When petroleum odors are not detected, vapor intrusion concerns can be dismissed if there is more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building.

An investigation into the potential for vapor migration should be completed in situations when there is not more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building or any of the following conditions:

- 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.

- Petroleum contaminated soils with the potential for off gassing vapors are within 5 feet or less of a building foundation.
- Benzene concentrations in groundwater underlying a building is >1,000 ppb and there is less than 20 feet of unsaturated soil between the groundwater and the building.
- Groundwater contaminated with petroleum product above Wisconsin's groundwater preventive action limit (PAL) is entering a building or in contact with a buildings foundation or is in water intercepted by the buildings foundation drainage system, including sumps.
- Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (utility lines, fractured bedrock, etc.) into a building.

There is no structure on the former Hedlund DX property, but the neighboring bait shop building is very close to known soil and groundwater contamination. Based depth to groundwater, soil types and contaminants of concern, it can be concluded that the threat for vapor migration from the petroleum release at the Hedlund DX site is a possibility and further investigation into vapor migration was conducted.

### **3.6 Sub-Slab Vapor Probe Installation and Sampling**

A total of two (2) sub slab vapor points were installed through the slab on grade concrete floor of the building. Only a small portion of the bait shop building has a concrete slab floor. The building is divided into both a retail portion and a residential portion. Sub-slab vapor ports were advanced through the concrete floor in both the beer cave and in the main retail area. Sample locations are depicted in Figure 2.

### **3.7 Sub-Slab Vapor Probe Installation**

REI used a rotary hammer drill with a 3/8" bit to drill through the concrete slab and a 3/4" bit to a depth of approximately 2" to set the probe. REI removed the concrete cuttings from the outer and inner holes with a small portable vacuum cleaner followed by a towel moistened with distilled water. REI placed the sub-slab soil



vapor probe in the hole so that the top of the probe is flush with the top of the floor. REI placed concrete grout into the annular space between the probe and the outer hole. The cement was allowed to dry prior to sampling.

### **3.8 Sub-Slab Vapor Probe Purging and Leak Detection**

REI completed leak testing prior to sample collection. Tracer gas (helium) shrouds were placed over each sub-slab vapor sample location prior to sampling to ensure that ambient air was not being pulled into the canisters during sampling. This was accomplished by placing a clean, small plastic shroud over each probe location. Prior to purging or sampling activities, helium tracer gas was released via a small diameter tube, placed through the side of the shroud, into the open space beneath the shroud. The sub-slab vapor tube, fitted with an air-tight valve, extended up into the open space beneath the shroud. The valve was then connected to the sampling tube and canister (both outside of the shroud). A sample of the air inside the shroud was measured through a second port using a field meter calibrated to detect helium to determine the concentration of helium within the enclosure beneath the shroud.

REI purged one to two liters of sub-slab soil vapor from each probe assembly prior to sampling the sub slab vapor. Quality control leak detection included a combination of both vacuum testing and introduction of helium as a tracer to ensure the collected sub-slab vapor sample was representative of the sub-slab soil gas. Samples were collected using 6-Liter Summa™ canister and a helium shroud. Four (4) volumes of air were removed from the tubing and the purge air monitored for the presence of helium using an electronic helium detector. Once the line was purged, and the helium detector documented the seal is adequate, the Summa Canister was connected to the sample line and allowed to fill through the flow restrictor. During sample collection, REI checked each Summa Canister periodically to ensure that the canister vacuum had not reached zero. Canisters that reach zero vacuum should not be analyzed and a new sample should be collected at these locations.

Sub-slab sampling points were installed to collect soil gas immediately below the slab at each of the three (3) identified locations. Sub-slab gas samples were collected using a 6-Liter Summa™ canister fitted with a flow orifice pre-calibrated to collect a 6-Liter sample over a 30-minute period. Once the 30-minute sampling

period was completed, the canister was boxed and shipped to the laboratory for analysis. Following the removal of the 6-Liter Summa™ canister from the sub slab vapor collection sampling train, REI personnel collected soil gas data specific to carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>) and methane (CH<sub>4</sub>). Additionally, values for lower explosive limit (LEL) results were collected.

### **3.9 Sub-Slab Vapor Probe Analytical Results**

The two (2) sub slab vapor samples were submitted to Pace Analytical, Minneapolis, Minnesota, for TO-15 analysis. The vapor analytical results and field screening data are summarized in Table 4. The complete laboratory analytical reports are included as Appendix J. Analytical results along with the field screening data document that there are no elevated petroleum concentrations present beneath the concrete slab.

## **4.0 EVALUATION OF ENVIRONMENTAL FACTORS**

The five environmental factors were evaluated during the site investigation. These factors include:

- a. Documented expansion of plume margin,
- b. Verified contaminant concentrations in a private or potable well exceeding the PAL,
- c. Contamination within bedrock or within 1 meter of bedrock,
- d. Free phase petroleum product present with a thickness of 0.01 feet or more, verified by more than one sampling event, or
- e. Documented contamination discharges to a surface water or wetland.

Site-specific characteristics indicate or suggest that none of the environmental factors have been triggered by the release at the Hedlund DX site.

### **4.1 Site Risk Classification**

According to NR746.03(4) a “high-risk” site is been defined in SS 101.144(aq) as a release from a petroleum storage tank if one or more of the following applies:

- 1) Repeated tests determined the release has impacted a potable well used for human consumptive use.
- 2) Petroleum product that is not in a dissolved phase and present in a thickness of greater than 0.01 feet or more in repeated measurements.
- 3) An enforcement standard exceedance in groundwater within 1,000 feet of a municipal well or within 100 feet of any other well used for human consumptive use.
- 4) An enforcement standard exceedance in fractured bedrock.

Site-specific characteristics indicate or suggest that the potable water supply well for the bait shop were impacted from the release at the Hedlund DX site. The impacted well was abandoned and replaced and there is no longer a known impact to the bait shop potable water supply well. Additionally, an enforcement standard exceedance has been confirmed in monitoring wells located within 100 feet of the replacement potable water supply well for the bait shop. As such, the Hedlund DX site should be managed as a high-risk site.

### **5.0 RECOMMENDED REMEDIAL ACTION**

This recommendation is based on current site conditions and is based on investigative results collected to date. The degree and extent of the release is not defined to the east because access to the neighboring property has not been allowed. Should access be allowed in the future, the recommendations may be revised.

REI recommends a soil excavation of approximately 1,380 cubic yards in the area identified in Figure 7. The soil excavation will extend to a proposed maximum depth of fifteen (15) to remove any smear zone contamination.

Due to the observed artesian conditions in each of the monitoring wells installed for the Hedlund DX investigation, managing the groundwater will be a priority to the success of the proposed soil excavation. REI is proposing the installation of groundwater extraction wells in advance of the proposed soil excavation. Groundwater will be extracted from the wells, treated on-site and discharged to green space south of the subject property. The intent of the groundwater extraction

is to lower the water levels in the proposed excavation area to allow the excavation to be completed.

REI estimates approximately 1,380 cubic yards, or approximately 2,000 tons of soil be removed for offsite disposal at an approved location. REI recommends confirmation soil samples be collected for PVOC and naphthalene compounds.

Additionally, REI also recommends quarterly groundwater sampling of the existing monitoring well network and proximal potable water supply wells. REI recommends the monitoring well samples be analyzed for PVOC and naphthalene compounds. In addition to the groundwater sampling, REI also recommends the completion and submittal of a construction documentation report following the soil excavation and an update reports after the completion of the second and fourth proposed groundwater sampling events. Case closure should be achievable prior to the PECFA deadline for the Hedlund DX investigation.

## **6.0 REFERENCES**

Trotta, L.C., and Cotter, R.D., 1973, Depth to Bedrock in Wisconsin, University of Wisconsin - Extension Geological and Natural History Survey, Madison, Wisconsin.

Young, H.L. and Hindall, S.M., 1973, Water Resources of Wisconsin, St Croix River Basin, U.S. Geologic Survey Hydrologic Investigations Atlas HA-451, Washington D.C.

**Table 1a**  
**Summary of Soil Analytical Results**  
**Hedlund DX**  
**Falun, Wisconsin**

|                         |                           | Date -->                |                                              | 11/7/1989 |       | 6/7/1990 |         | 12/19/1990 |        |       |         |
|-------------------------|---------------------------|-------------------------|----------------------------------------------|-----------|-------|----------|---------|------------|--------|-------|---------|
|                         |                           | Sample ID -->           |                                              | DX-1      | DX-2  | DX-3     | DX-4    | B-1        | B-2    | B-3   | B-4     |
|                         |                           | Sample Depth (Feet) --> |                                              | 5-7       | 4-6   | 5-7      | 3-5     | 5-7        | 9.5    | 9.5   | 7.5-9.5 |
| Petroleum VOC's (µg/kg) | Non-Industrial            | Not-To-Exceed DC RCL    | NR 140 Groundwater Pathway Protection (DF=2) |           |       |          |         |            |        |       |         |
|                         |                           | 1,490                   | 5.1                                          | NA        | NA    | 21,000   | < 1,000 | < 120      | < 120  | 1,200 | 2,200   |
|                         | Benzene                   |                         |                                              |           |       |          |         |            |        |       |         |
|                         | Ethylbenzene              | 7,470                   | 1,570                                        | NA        | NA    | 19,000   | 7,900   | < 120      | < 120  | 1,500 | 170     |
|                         | Toluene                   | 818,000                 | 1,107                                        | NA        | NA    | 82,000   | 3,500   | < 120      | < 120  | 5,300 | 400     |
|                         | Xylenes (Total)           | 258,000                 | 3,940                                        | NA        | NA    | 173,000  | 50,000  | < 120      | < 120  | 3,500 | 950     |
|                         | Methyl tert Butyl Ether   | 59,400                  | 27                                           | NA        | NA    | NA       | NA      | < 120      | < 120  | < 120 | < 160   |
|                         | 1,2,4-Trimethylbenzene    | 89,800                  | NS                                           | NA        | NA    | NA       | NA      | NA         | NA     | NA    | NA      |
|                         | 1,3,5-Trimethylbenzene    | 182,000                 | NS                                           | NA        | NA    | NA       | NA      | NA         | NA     | NA    | NA      |
|                         | Trimethylbenzenes (Total) | NS                      | 1,379                                        | NA        | NA    | NA       | NA      | NA         | NA     | NA    | NA      |
|                         | Naphthalene               | 5,150                   | 658.7                                        | NA        | NA    | NA       | NA      | NA         | NA     | NA    | NA      |
| Metals (mg/kg)          |                           |                         |                                              |           |       |          |         |            |        |       |         |
| Arsenic                 |                           |                         |                                              | NA        | 0.01  | NA       | NA      | NA         | NA     | NA    | NA      |
| Barium                  |                           |                         |                                              | NA        | 0.15  | NA       | NA      | NA         | NA     | NA    | NA      |
| Cadmium                 |                           |                         |                                              | NA        | 0.002 | NA       | NA      | NA         | NA     | NA    | NA      |
| Chromium                |                           |                         |                                              | NA        | 0.009 | NA       | NA      | NA         | NA     | NA    | NA      |
| Lead                    |                           |                         |                                              | NA        | 0.05  | NA       | NA      | 17         | 18     | 18    | 15      |
| Mercury                 |                           |                         |                                              | NA        | 0.01  | NA       | NA      | NA         | NA     | NA    | NA      |
| Selenium                |                           |                         |                                              | NA        | 0.01  | NA       | NA      | NA         | NA     | NA    | NA      |
| Silver                  |                           |                         |                                              | NA        | 0.001 | NA       | NA      | NA         | NA     | NA    | NA      |
| TPH - Gasoline (mg/kg)  |                           |                         |                                              | 24        | 56    | 1,750    | 430     | 2.3        | < 0.12 | 46    | 19      |

Notes:

NR720 Standards Obtained From WDNR Online Excel Database

RCL - NR 720 Proposed Soil Residual Contaminant Level

DC - Direct Contact

Background Threshold Value

Exceeds Non-Industrial Not-To-Exceed DC RCL

Exceeds NR 140 Groundwater Pathway Protection

NS - No Standard

<sup>J</sup> - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< - Concentration below listed laboratory detection limit

NA - Not Analyzed

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| <b>Bold</b>   |
| <i>Italic</i> |



**Table 1b**  
**Summary of Soil Analytical Results**  
**Geoprobe Borings**  
**Hedlund DX**  
**Falun, Wisconsin**

| Date -->                                |         |       | 8/8/2016         |        | 8/8/2016 |       | 8/8/2016 |      | 8/8/2016 |        | 8/8/2016 |        | 8/8/2016 |        | 8/8/2016          |  |
|-----------------------------------------|---------|-------|------------------|--------|----------|-------|----------|------|----------|--------|----------|--------|----------|--------|-------------------|--|
| Sample ID -->                           |         |       | GPI              |        | GP2      |       | GP3      |      | GP4b     |        | GP5      |        | GP6b     |        | GP7               |  |
| Sample Depth (Feet) -->                 |         |       | 2-4              |        | 2-4      |       | 13-14    |      | 2-4      |        | 3-4      |        | 3-4      |        | 2-4               |  |
| Percent Moisture -->                    |         |       | 27.5%            |        | 15.9%    |       | 15.9%    |      | 22.0%    |        | 22.1%    |        | 22.0%    |        | 19.7%             |  |
| BTV @52                                 |         |       | 8.4              |        | 11.4     |       | 12.1     |      | 982      |        | 18.7     |        | 6.2      |        | 18.3              |  |
| NR 140 Groundwater Not-To-Exceed DC RCL |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
| Petroleum VOC's (µg/kg)                 |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
| Lead (mg/kg)                            | 400     | 13.5  |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         | 1,490   | 5.1   | < 340            |        | 472      |       | 934      |      | 1,210    |        | < 1,250  |        | < 26.9   |        | < 27.8            |  |
|                                         | 7,470   | 1,570 | 22,700           |        | 284      |       | 10,100   |      | 797      |        | 113,000  |        | < 26.9   |        | < 27.8            |  |
|                                         | 818,000 | 1,107 | < 340            |        | 38.9     |       | 15,200   |      | 244      |        | 18,300   |        | < 26.9   |        | < 27.8            |  |
|                                         | 258,000 | 3,940 | 68,070           |        | 559      |       | 39,200   |      | 2,101    |        | 587,000  |        | < 58.3   |        | < 55.6            |  |
|                                         | 59,400  | 27    | 829 <sup>f</sup> |        | < 26.3   |       | 663      |      | < 25     |        | 3,290    |        | < 26.9   |        | < 27.8            |  |
|                                         | 89,800  | NS    | 60,400           |        | < 26.3   |       | 15,800   |      | 112      |        | 235,000  |        | < 26.9   |        | 36.6 <sup>f</sup> |  |
|                                         | 182,000 | NS    | 25,600           |        | < 26.3   |       | 5,990    |      | < 25     |        | 84,500   |        | < 26.9   |        | < 27.8            |  |
|                                         | NS      | 1,379 | 86,000           |        | < 26.3   |       | 21,790   |      | 112      |        | 319,500  |        | < 26.9   |        | < 27.8            |  |
| 5,150                                   | 688.7   | 8,210 |                  | < 26.3 |          | 3,090 |          | < 25 |          | 44,700 |          | < 26.9 |          | < 27.8 |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |
|                                         |         |       |                  |        |          |       |          |      |          |        |          |        |          |        |                   |  |

Notes:

NR120 Standards Obtained From WDNr Online Excel Database

RCL - NR 720 Proposed Soil Residual Contaminant Level

DC - Direct Contact

Background Threshold Value

Exceeds Non-Industrial Not-To-Exceed DC RCL

Exceeds NR 140 Groundwater Pathway Protection

NS - No Standard

<sup>f</sup> - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< - Concentration below listed laboratory detection limit

NA - Not Analyzed

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| <b>Bold</b>   |
| <i>Italic</i> |

**Table 1c**  
**Summary of Soil Analytical Results**  
**Monitoring Wells**  
**Hedlund DX**  
**Falun, Wisconsin**

|                           |  | Date -->                |  | 9/13/2016        |  | 9/13/2016          |  | 9/13/2016 |  | 9/14/2016 |  | 1/12/2017 |  | 1/12/2017         |  | 1/12/2017 |  |
|---------------------------|--|-------------------------|--|------------------|--|--------------------|--|-----------|--|-----------|--|-----------|--|-------------------|--|-----------|--|
|                           |  | Sample ID -->           |  | MW3              |  | MW4                |  | MW6       |  | MW7       |  | MW9       |  | MW10              |  | MW11      |  |
|                           |  | Sample Depth (Feet) --> |  | 10-12            |  | 10-12              |  | 10-12     |  | 2-4       |  | 2-4       |  | 3-4               |  | 2-4       |  |
|                           |  | Percent Moisture -->    |  | 31.8%            |  | 30.4%              |  | 28.5%     |  | 16.4%     |  | 25.0%     |  | 32.4%             |  | 7.8%      |  |
| Lead (mg/kg)              |  | BTV @52                 |  | 195              |  | 82.1               |  | 4.3       |  | 5.2       |  | 10.2      |  | 14.9              |  | 2.7       |  |
|                           |  | 13.5                    |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | NR 140                  |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | Groundwater             |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | Pathway                 |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | Protection              |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | (DF=2)                  |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | RCL                     |  |                  |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
| Petroleum VOC's (µg/kg)   |  | Non-Industrial          |  | Not-To-Exceed DC |  |                    |  |           |  |           |  |           |  |                   |  |           |  |
|                           |  | 1,490                   |  | 5.1              |  | 1,380 <sup>J</sup> |  | 6,850     |  | 139       |  | < 25      |  | 447               |  | < 25      |  |
| Benzene                   |  | 7,470                   |  | 1,570            |  | 73,600             |  | 84,700    |  | 787       |  | < 25      |  | 73.0 <sup>J</sup> |  | < 25      |  |
| Ethylbenzene              |  | 818,000                 |  | 1,107            |  | 9,030              |  | 68,600    |  | 562       |  | < 25      |  | 234               |  | < 25      |  |
| Toluene                   |  | 258,000                 |  | 3,940            |  | 341,000            |  | 354,000   |  | 4,960     |  | < 50      |  | 156 <sup>J</sup>  |  | < 50      |  |
| Xylenes (Total)           |  | 59,400                  |  | 27               |  | 2,290 <sup>J</sup> |  | 4,480     |  | < 25      |  | < 25      |  | < 25              |  | < 25      |  |
| Methyl tert Butyl Ether   |  | 89,800                  |  | NS               |  | 186,000            |  | 192,000   |  | 2,780     |  | < 25      |  | < 25              |  | < 25      |  |
| 1,2,4-Trimethylbenzene    |  | 182,000                 |  | NS               |  | 66,300             |  | 67,000    |  | 1,190     |  | < 25      |  | < 25              |  | < 25      |  |
| 1,3,5-Trimethylbenzene    |  | NS                      |  | 1,379            |  | 252,300            |  | 259,000   |  | 3,970     |  | < 25      |  | < 25              |  | < 25      |  |
| Trimethylbenzenes (Total) |  |                         |  |                  |  | 413                |  | 413       |  | 413       |  | < 25      |  | < 25              |  | < 25      |  |
| Naphthalene               |  | 5,150                   |  | 688.7            |  | 32,400             |  | 36,100    |  | 738       |  | < 25      |  | < 25              |  | < 25      |  |

Notes:

NR120 Standards Obtained From WDNr Online Excel Database

RCL - NR 720 Proposed Soil Residual Contaminant Level

DC - Direct Contact

Background Threshold Value

Exceeds Non-Industrial Not-To-Exceed DC RCL

Exceeds NR 140 Groundwater Pathway Protection

NS - No Standard

<sup>J</sup> - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

< - Concentration below listed laboratory detection limit

NA - Not Analyzed

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| <b>Bold</b>   |
| <i>Italic</i> |

**Table 2**  
**Depth to Water and Water Table Elevations**  
**Hedlund DX**  
**Falun, Wisconsin**

| <b>Depth to Water (feet) below Reference Elevation</b>   |            |            |            |            |            |            |            |            |            |             |             |
|----------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| Date                                                     | <u>MW1</u> | <u>MW2</u> | <u>MW3</u> | <u>MW4</u> | <u>MW5</u> | <u>MW6</u> | <u>MW7</u> | <u>MW8</u> | <u>MW9</u> | <u>MW10</u> | <u>MW11</u> |
| 9/14/2016                                                | 5.23       | 2.02       | 1.74       | 2.18       | 2.46       | 2.5        | 0.97       |            |            |             |             |
| 1/12/2017                                                | 5.86       | froze      | 2.11       | 2.66       | 2.67       | 2.79       | 1.04       | 4.59       | 3.35       | 5.83        | 2.63        |
| <b>Measuring Point Elevations</b>                        |            |            |            |            |            |            |            |            |            |             |             |
| Elevations referenced to a U.S.G.S. Benchmark (feet MSL) |            |            |            |            |            |            |            |            |            |             |             |
| <b>Top of Casing Elevation</b>                           |            |            |            |            |            |            |            |            |            |             |             |
| Initial Survey                                           | 961.15     | 958.40     | 957.79     | 958.04     | 958.69     | 958.97     | 957.21     | 960.68     | 959.39     | 961.41      | 958.33      |
| <b>Ground Surface Elevation</b>                          |            |            |            |            |            |            |            |            |            |             |             |
| Initial Survey                                           | 959.18     | 958.79     | 958.30     | 958.57     | 959.00     | 959.55     | 957.76     | 961.02     | 959.78     | 958.25      | 958.92      |
| <b>Depth to Water (feet) below Ground Surface</b>        |            |            |            |            |            |            |            |            |            |             |             |
| Average                                                  | 3.58       | 2.40       | 2.44       | 2.95       | 2.87       | 3.23       | 1.55       | 4.93       | 3.74       | 2.67        | 3.22        |
| Maximum                                                  | 3.89       | 2.40       | 2.62       | 3.19       | 2.98       | 3.37       | 1.59       | 4.93       | 3.74       | 2.67        | 3.22        |
| Minimum                                                  | 3.26       | 2.40       | 2.25       | 2.71       | 2.77       | 3.08       | 1.52       | 4.93       | 3.74       | 2.67        | 3.22        |
| Range                                                    | 0.63       | 0.00       | 0.37       | 0.48       | 0.21       | 0.29       | 0.07       | 0.00       | 0.00       | 0.00        | 0.00        |
| <b>Water Level Elevation (feet MSL)</b>                  |            |            |            |            |            |            |            |            |            |             |             |
| Date                                                     | <u>MW1</u> | <u>MW2</u> | <u>MW3</u> | <u>MW4</u> | <u>MW5</u> | <u>MW6</u> | <u>MW7</u> | <u>MW8</u> | <u>MW9</u> | <u>MW10</u> | <u>MW11</u> |
| 9/14/2016                                                | 955.92     | 956.38     | 956.05     | 955.86     | 956.23     | 956.47     | 956.24     |            |            |             |             |
| 1/12/2017                                                | 955.29     |            | 955.68     | 955.38     | 956.02     | 956.18     | 956.17     | 956.09     | 956.04     | 955.58      | 955.70      |

Table 3a  
Summary of Groundwater Analytical Results  
WDOT Investigation  
Hedlund DX  
Falun, Wisconsin

| Sample Location ->      |       |     |       |     | WDX-1     | WDX-3    | WDX-5    |
|-------------------------|-------|-----|-------|-----|-----------|----------|----------|
| Date ->                 |       |     |       |     | 11/7/1989 | 6/7/1990 | 6/7/1990 |
| Detected VOC Parameters | ES    | PAL | Units |     |           |          |          |
| Benzene                 | 5     | 0.5 | µg/l  | 120 | 224       | 690      |          |
| Toluene                 | 800   | 160 | µg/l  | 140 | 180       | 18       |          |
| Ethylbenzene            | 700   | 140 | µg/l  | 58  | 19        | 5.9      |          |
| Xylenes (mixed isomers) | 2,000 | 400 | µg/l  | 140 | 117       | 810      |          |
| 1,2-DCA                 | 5     | 0.5 | µg/l  | 11  | NA        | NA       |          |

Notes:

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

|                |
|----------------|
| <b>BOLD</b>    |
| <i>Italics</i> |

**Table 3b**  
**Summary of Groundwater Analytical Results**  
**Foth & Van Dyke Investigation**  
**Hedlund DX**  
**Falun, Wisconsin**

|                                |  |  |  |  |  | MW1        |           | MW3        |           | MW4        |           |        |       |         |
|--------------------------------|--|--|--|--|--|------------|-----------|------------|-----------|------------|-----------|--------|-------|---------|
|                                |  |  |  |  |  | 12/31/1990 | 3/21/1991 | 12/31/1990 | 3/21/1991 | 12/31/1990 | 3/21/1991 |        |       |         |
| Detected VOC Parameters        |  |  |  |  |  | ES         | PAL       | Date ->    |           |            |           |        |       |         |
| TPH as Gasoline                |  |  |  |  |  |            |           | Units      |           |            |           |        |       |         |
| Benzene                        |  |  |  |  |  | 5          | 0.5       | µg/l       | 60        | 78         | 870       | 27,000 | 70    | 120,000 |
| Toluene                        |  |  |  |  |  | 800        | 160       | µg/l       | < 1.0     | < 1.0      | 6         | 1,700  | < 1.0 | 6,900   |
| Ethylbenzene                   |  |  |  |  |  | 700        | 140       | µg/l       | < 1.0     | < 1.0      | 26        | 890    | < 1.1 | 2,000   |
| Xylenes (mixed isomers)        |  |  |  |  |  | 2,000      | 400       | µg/l       | < 1.0     | < 1.0      | 9         | 450    | < 1.0 | 1,600   |
| Methyl tert-Butyl Ether (MTBE) |  |  |  |  |  | 60         | 12        | µg/l       | < 3.0     | 9.3        | 49        | 1,600  | < 1.0 | 7,800   |
| Lead                           |  |  |  |  |  | 15         | 1.5       | µg/l       | < 4.0     | < 4.0      | < 4.0     | 88     | < 4.0 | < 4.0   |
|                                |  |  |  |  |  |            |           | µg/l       | 200       | < 1.0      | < 1.0     | < 1.0  | 400   | 40      |

**Notes:**

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled  
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

|                |
|----------------|
| <b>BOLD</b>    |
| <i>Italics</i> |

**Table 3c**  
**Summary of Groundwater Analytical Results**  
**MW1**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> | 8/8/2016 | 9/13/2016 | 1/1/2017 |
|-----------------------------------|-------|-----|---------|----------|-----------|----------|
|                                   | ES    | PAL | Units   |          |           |          |
| Benzene                           | 5     | 0.5 | µg/l    | < 0.40   | < 0.40    | < 0.40   |
| Toluene                           | 800   | 160 | µg/l    | < 0.39   | < 0.39    | < 0.39   |
| Ethylbenzene                      | 700   | 140 | µg/l    | < 0.39   | < 0.39    | < 0.39   |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | < 0.80   | < 0.80    | < 0.80   |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | < 0.48   | < 0.48    | < 0.48   |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | < 0.42   | < 0.42    | < 0.42   |
| Naphthalene                       | 100   | 10  | µg/l    | < 0.42   | < 0.42    | < 0.42   |

**Notes:**

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |



**Table 3d**  
**Summary of Groundwater Analytical Results**  
**MW2**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> |                   |       |
|-----------------------------------|-------|-----|---------|-------------------|-------|
|                                   | ES    | PAL | Units   |                   |       |
| Benzene                           | 5     | 0.5 | µg/l    | <b>32.7</b>       | Water |
| Toluene                           | 800   | 160 | µg/l    | 9.1               | Froze |
| Ethylbenzene                      | 700   | 140 | µg/l    | 19                | in    |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | 52.1              | Well  |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | 0.95 <sup>J</sup> |       |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | 10.1              |       |
| Naphthalene                       | 100   | 10  | µg/l    | 3.5               |       |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled

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| <i>Italics</i> |

<sup>J</sup> = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

**Table 3e**  
**Summary of Groundwater Analytical Results**  
**MW3**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> | 9/13/2016    | 1/11/2017         |
|-----------------------------------|-------|-----|---------|--------------|-------------------|
|                                   | ES    | PAL | Units   |              |                   |
| Benzene                           | 5     | 0.5 | µg/l    | <b>165</b>   | <b>44.6</b>       |
| Toluene                           | 800   | 160 | µg/l    | 36.1         | 0.79 <sup>j</sup> |
| Ethylbenzene                      | 700   | 140 | µg/l    | <i>146</i>   | 12.3              |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | <i>720</i>   | 14.4              |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | < 1.2        | 1.0               |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | <i>183.1</i> | 12.0              |
| Naphthalene                       | 100   | 10  | µg/l    | <i>44.9</i>  | 5.0               |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled

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| <i>Italics</i> |

<sup>j</sup> = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

**Table 3f**  
**Summary of Groundwater Analytical Results**  
**MW4**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> | 1/11/2017  |
|-----------------------------------|-------|-----|---------|------------|
|                                   | ES    | PAL | Units   |            |
| Benzene                           | 5     | 0.5 | µg/l    | <b>659</b> |
| Toluene                           | 800   | 160 | µg/l    | 18.7       |
| Ethylbenzene                      | 700   | 140 | µg/l    | 146        |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | 160        |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | < 4.8      |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | 49.3       |
| Naphthalene                       | 100   | 10  | µg/l    | 13.9       |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled  
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |

**Table 3g**  
**Summary of Groundwater Analytical Results**  
**MW5**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> | 9/13/2016   | 1/11/2017   |
|-----------------------------------|-------|-----|---------|-------------|-------------|
|                                   | ES    | PAL | Units   |             |             |
| Benzene                           | 5     | 0.5 | µg/l    | <b>119</b>  | <b>77.9</b> |
| Toluene                           | 800   | 160 | µg/l    | 24          | 11.7        |
| Ethylbenzene                      | 700   | 140 | µg/l    | 109         | 65.1        |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | 285         | 102         |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | 2.0         | 1.3         |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | 79.3        | 32.8        |
| Naphthalene                       | 100   | 10  | µg/l    | <i>17.2</i> | <i>10.6</i> |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled  
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |

**Table 3h**  
**Summary of Groundwater Analytical Results**  
**MW6**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     | Date -> | 1/11/2017   |
|-----------------------------------|-------|-----|---------|-------------|
|                                   | ES    | PAL | Units   |             |
| Benzene                           | 5     | 0.5 | µg/l    | <b>23.1</b> |
| Toluene                           | 800   | 160 | µg/l    | < 0.39      |
| Ethylbenzene                      | 700   | 140 | µg/l    | 3.9         |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l    | < 0.80      |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l    | < 0.48      |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l    | < 0.42      |
| Naphthalene                       | 100   | 10  | µg/l    | < 0.42      |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled

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| <b>BOLD</b>    |
| <i>Italics</i> |

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

**Table 3i**  
**Summary of Groundwater Analytical Results**  
**MW7**  
**Hedlund DX**  
**Falun, Wisconsin**

|                                   | ES    | PAL | Units | 9/21/2016 | 1/11/2017 |
|-----------------------------------|-------|-----|-------|-----------|-----------|
| Dissolved Lead                    | 15    | 1.5 | µg/l  | < 3.0     | NA        |
| <b>Detected VOC Parameters</b>    |       |     |       |           |           |
| Benzene                           | 5     | 0.5 | µg/l  | < 0.40    | < 0.40    |
| Toluene                           | 800   | 160 | µg/l  | < 0.39    | < 0.39    |
| Ethylbenzene                      | 700   | 140 | µg/l  | < 0.39    | < 0.39    |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  | < 0.80    | < 0.80    |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  | < 0.48    | < 0.48    |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  | < 0.42    | < 0.42    |
| Naphthalene                       | 100   | 10  | µg/l  | < 0.42    | < 0.42    |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled  
J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |

**Table 3j**  
**Summary of Groundwater Analytical Results**  
**MW8**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     |       | Date -> | 1/11/2017         |
|-----------------------------------|-------|-----|-------|---------|-------------------|
|                                   | ES    | PAL | Units |         |                   |
| Benzene                           | 5     | 0.5 | µg/l  |         | < 0.50            |
| Toluene                           | 800   | 160 | µg/l  |         | < 0.50            |
| Ethylbenzene                      | 700   | 140 | µg/l  |         | < 0.50            |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  |         | < 1.0             |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  |         | < 0.17            |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  |         | < 0.50            |
| Naphthalene                       | 100   | 10  | µg/l  |         | < 2.5             |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  |         | 0.75 <sup>J</sup> |
| <b>Inorganic Compounds</b>        |       |     |       |         |                   |
| Dissolved Iron                    | 300   | 150 | µg/l  |         | <b>4,670</b>      |
| Dissolved Manganese               | 50    | 25  | µg/l  |         | <b>1,190</b>      |

*Notes:*

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

<sup>J</sup> = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |



**Table 3k**  
**Summary of Groundwater Analytical Results**  
**MW9**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     |       | Date -> | 1/11/2017    |
|-----------------------------------|-------|-----|-------|---------|--------------|
|                                   | ES    | PAL | Units |         |              |
| Benzene                           | 5     | 0.5 | µg/l  |         | < 0.50       |
| Toluene                           | 800   | 160 | µg/l  |         | < 0.50       |
| Ethylbenzene                      | 700   | 140 | µg/l  |         | < 0.50       |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  |         | < 1.0        |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  |         | < 0.17       |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  |         | < 0.50       |
| Naphthalene                       | 100   | 10  | µg/l  |         | < 2.5        |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  |         | <i>1.2</i>   |
| <b>Inorganic Compounds</b>        |       |     |       |         |              |
| Dissolved Iron                    | 300   | 150 | µg/l  |         | <b>2,370</b> |
| Dissolved Manganese               | 50    | 25  | µg/l  |         | <b>394</b>   |

**Notes:**

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |

**Table 31**  
**Summary of Groundwater Analytical Results**  
**MW10**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     |       | Date -> | 1/11/2017    |
|-----------------------------------|-------|-----|-------|---------|--------------|
|                                   | ES    | PAL | Units |         |              |
| Benzene                           | 5     | 0.5 | µg/l  |         | < 0.50       |
| Toluene                           | 800   | 160 | µg/l  |         | < 0.50       |
| Ethylbenzene                      | 700   | 140 | µg/l  |         | < 0.50       |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  |         | < 1.0        |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  |         | < 0.17       |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  |         | < 0.50       |
| Naphthalene                       | 100   | 10  | µg/l  |         | < 2.5        |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  |         | < 0.50       |
| <b>Inorganic Compounds</b>        |       |     |       |         |              |
| Dissolved Iron                    | 300   | 150 | µg/l  |         | <b>1,560</b> |
| Dissolved Manganese               | 50    | 25  | µg/l  |         | <b>284</b>   |

**Notes:**

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <b>BOLD</b>    |
| <i>Italics</i> |

**Table 3m**  
**Summary of Groundwater Analytical Results**  
**MW11**  
**Hedlund DX**  
**Falun, Wisconsin**

| Detected VOC Parameters           |       |     |       | Date -> | 1/11/2017  |
|-----------------------------------|-------|-----|-------|---------|------------|
|                                   | ES    | PAL | Units |         |            |
| Benzene                           | 5     | 0.5 | µg/l  |         | < 0.50     |
| Toluene                           | 800   | 160 | µg/l  |         | < 0.50     |
| Ethylbenzene                      | 700   | 140 | µg/l  |         | < 0.50     |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  |         | < 1.0      |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  |         | < 0.17     |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  |         | < 0.50     |
| Naphthalene                       | 100   | 10  | µg/l  |         | < 2.5      |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  |         | < 0.50     |
| <b>Inorganic Compounds</b>        |       |     |       |         |            |
| Dissolved Iron                    | 300   | 150 | µg/l  |         | <b>468</b> |
| Dissolved Manganese               | 50    | 25  | µg/l  |         | <b>292</b> |

*Notes:*

ES = NR140.10 Enforcement Standards  
PAL = NR140.10 Preventive Action Limits  
Enforcement Standard exceeded  
Preventive Action Limit exceeded  
NA = Not Analyzed  
NS = Not Sampled

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| <b>BOLD</b>    |
| <i>Italics</i> |

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

**Table 3n**  
**Summary of Groundwater Analytical Results**  
**10561 State Highway 70 - Potable Well**  
**Hedlund DX**  
**Falun, Wisconsin**

|                                   | ES    | PAL | Units | 9/21/2016 | 1/11/2017 |
|-----------------------------------|-------|-----|-------|-----------|-----------|
| Dissolved Lead                    | 15    | 1.5 | µg/l  | < 3.0     | NS        |
| <b>Detected VOC Parameters</b>    |       |     |       |           |           |
| Benzene                           | 5     | 0.5 | µg/l  | < 0.086   | < 0.086   |
| Toluene                           | 800   | 160 | µg/l  | < 0.080   | < 0.080   |
| Ethylbenzene                      | 700   | 140 | µg/l  | < 0.051   | < 0.051   |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  | < 0.073   | < 0.073   |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  | NA        | NA        |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  | < 0.083   | < 0.083   |
| Naphthalene                       | 100   | 10  | µg/l  | < 0.064   | < 0.064   |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  | < 0.12    | < 0.12    |

*Notes:*

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <b>BOLD</b>    |
| <i>Italics</i> |

**Table 3o**  
**Summary of Groundwater Analytical Results**  
**10531 State Highway 70 - Potable Well**  
**Hedlund DX**  
**Falun, Wisconsin**

|                                   | ES    | PAL | Units | 9/21/2016 | 1/11/2017 |
|-----------------------------------|-------|-----|-------|-----------|-----------|
| Dissolved Lead                    | 15    | 1.5 | µg/l  | < 3.0     | NS        |
| <b>Detected VOC Parameters</b>    |       |     |       |           |           |
| Benzene                           | 5     | 0.5 | µg/l  | < 0.086   | NS        |
| Toluene                           | 800   | 160 | µg/l  | < 0.080   | NS        |
| Ethylbenzene                      | 700   | 140 | µg/l  | < 0.051   | NS        |
| Xylenes (mixed isomers)           | 2,000 | 400 | µg/l  | < 0.073   | NS        |
| Methyl tert-Butyl Ether (MTBE)    | 60    | 12  | µg/l  | NA        | NS        |
| Trimethylbenzenes (mixed isomers) | 480   | 96  | µg/l  | < 0.083   | NS        |
| Naphthalene                       | 100   | 10  | µg/l  | < 0.064   | NS        |
| Tetrachloroethene                 | 5     | 0.5 | µg/l  | < 0.12    | NS        |

*Notes:*

ES = NR140.10 Enforcement Standards

PAL = NR140.10 Preventive Action Limits

Enforcement Standard exceeded

Preventive Action Limit exceeded

NA = Not Analyzed

NS = Not Sampled

J = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

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| <i>Italics</i> |

**Table 4**  
**Summary of Vapor Analytical Results**  
**Hedlund DX**  
**Falun, WI**

| Small Commercial Building (Attenuation Factor 0.03) |         | VP1       | VP2              |
|-----------------------------------------------------|---------|-----------|------------------|
| Chemical ( $\mu\text{g}/\text{m}^3$ )               | SS-VRSI | 1/12/2017 | 1/12/2017        |
| Acetone                                             |         | 63.1      | 49.3             |
| Benzene                                             | 530     | 2.5       | 2.6              |
| 2-Butanone (MEK)                                    |         | 5.8       | 10.8             |
| Carbon disulfide                                    |         | < 0.15    | < 0.14           |
| Chloromethane                                       | 13,000  | 0.84      | 0.71             |
| Cyclohexane                                         |         | 2.3       | 5.3              |
| Dichlorodifluoromethane                             | 15,000  | < 1.2     | 3.9              |
| Ethylbenzene                                        | 1,600   | 5.0       | 6.0              |
| 4-Ethyltoluene                                      |         | 3.3       | 4.2              |
| n-Heptane                                           |         | 2.1       | 4.0              |
| n-Hexane                                            |         | 4.7       | 13.3             |
| Propylene                                           |         | < 0.19    | < 0.19           |
| Methylene Chloride                                  | 87,000  | 6.0       | 52.4             |
| Tetrachloroethene                                   | 6,000   | < 0.40    | < 0.39           |
| Toluene                                             | 730,000 | 17.1      | 58.7             |
| Trichlorofluoromethane (Halocarbon 11)              |         | 2.1       | 1.4 <sup>J</sup> |
| 1,2,4-Trimethylbenzene                              | 1,000   | 11.7      | 15.9             |
| 1,3,5-Trimethylbenzene                              |         | 2.8       | 3.7              |
| Xylene (mix)                                        | 15,000  | 29.0      | 19.6             |

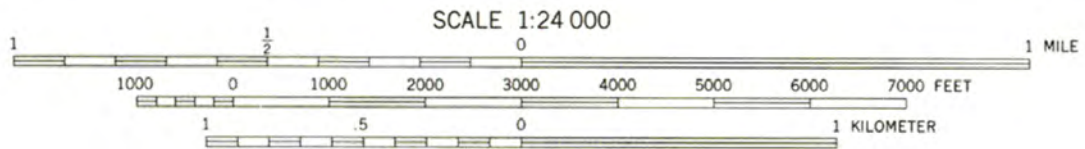
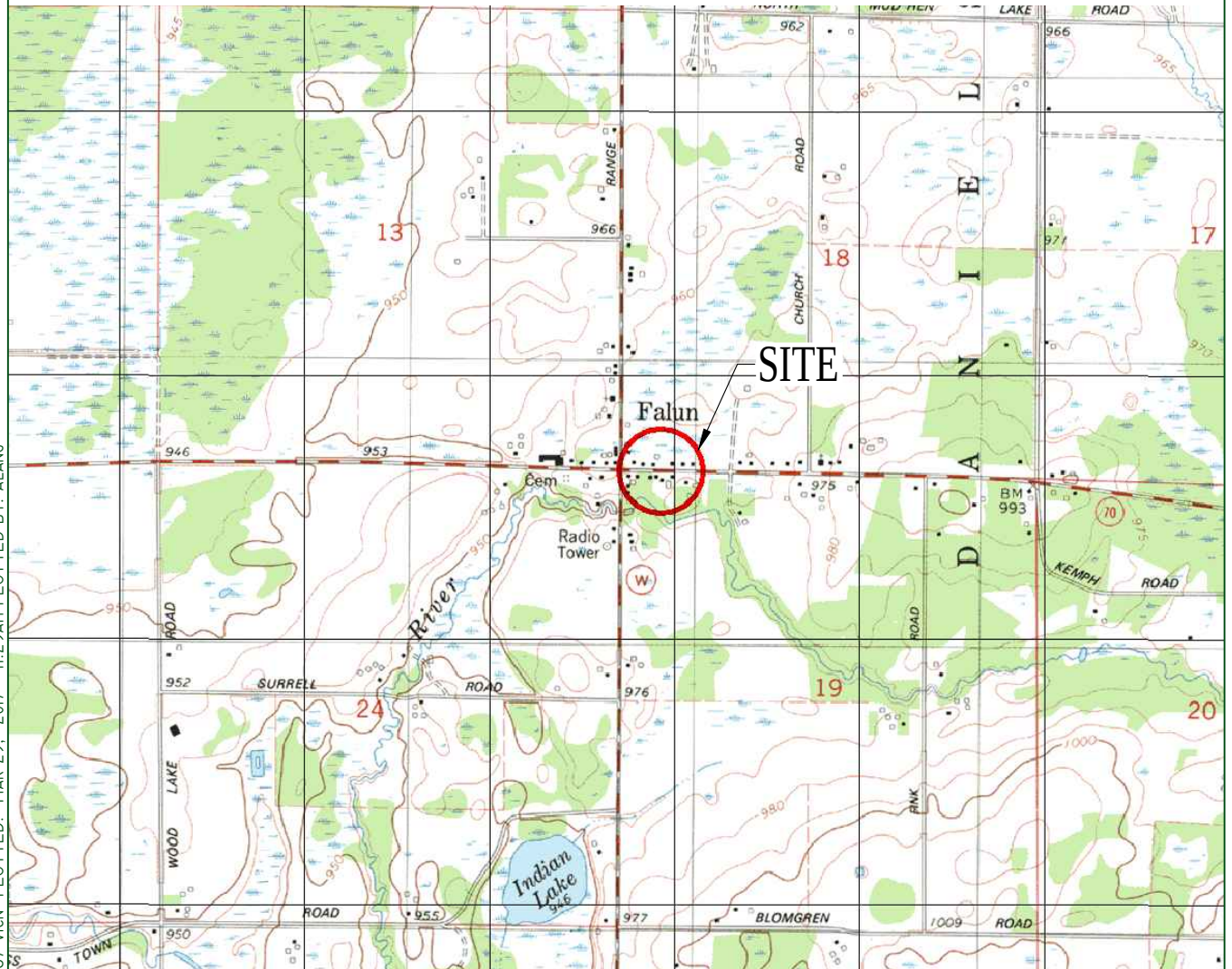
**Notes:**

Sub-Slab Vapor Risk Screening Levels Based on December 2015 National Screening Level Summary Table

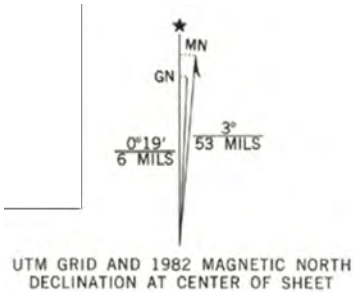
Exceeds Sub-Slab Vapor Risk Screening Level **Bold**

<sup>J</sup> - Estimated concentration at or above the Limit of Detection and below the Limit of Quantification

DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-VICN.DWG LAYOUT: 7367-VICN PLOTTED: MAR 29, 2017 - 11:29AM PLOTTED BY: ALANG



CONTOUR INTERVAL 10 FEET  
DOTTED LINES REPRESENT 5-FOOT CONTOURS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929



**FALUN, WIS.**  
SE/4 GRANTSBURG 15' QUADRANGLE  
N4545-W9230/7.5

1982

DMA 2475 I SE-SERIES V861



REI Engineering, INC.

BURNETT COUNTY-FORMER HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WISCONSIN 54872

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.

7367AxUC

DRAWN BY:

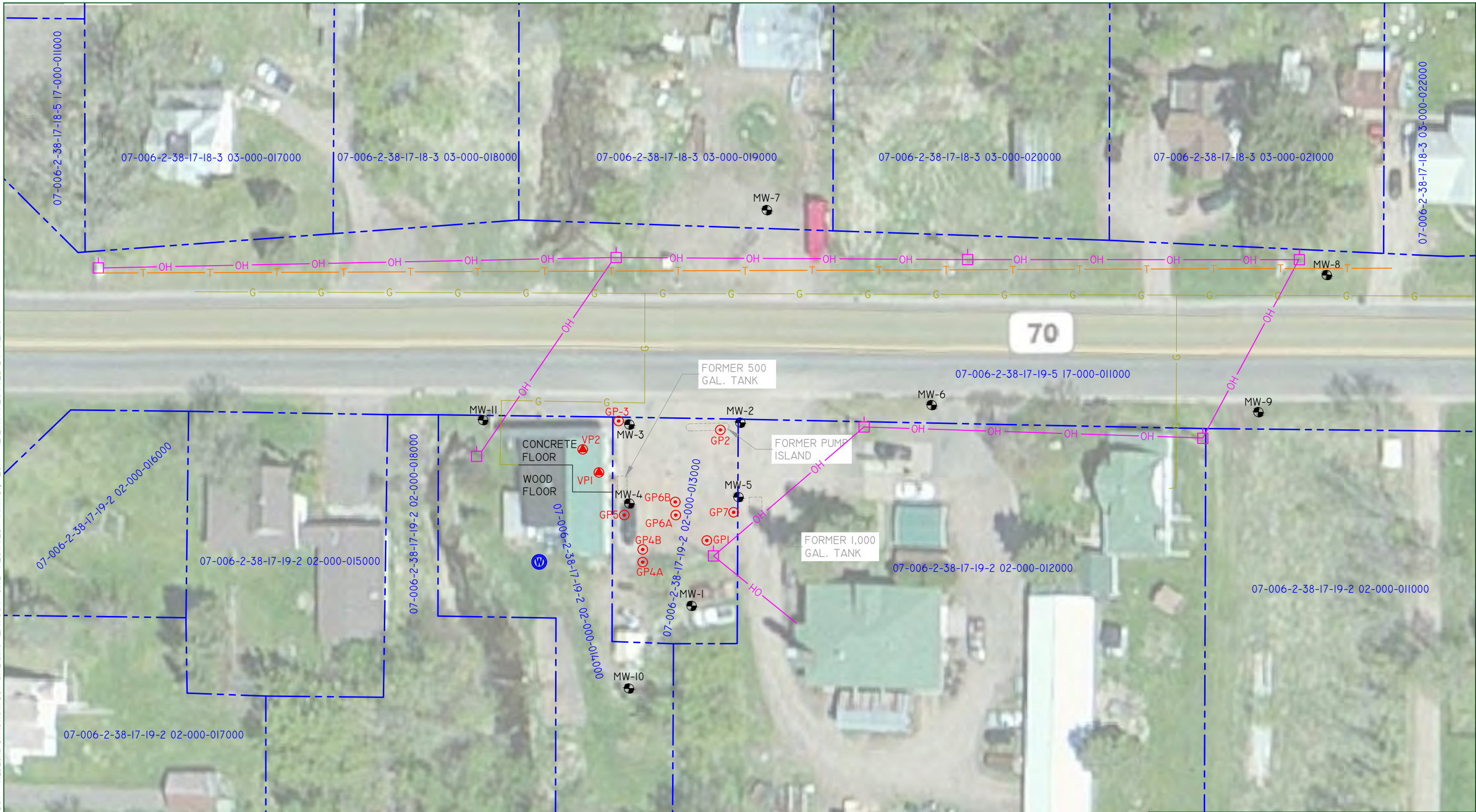
TAW

DATE:

3/27/2017



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-SITE.DWG LAYOUT: SITE PLOTTED: MAR 31, 2017 - 12:29PM PLOTTED BY: ALANG



| LEGEND |                             |
|--------|-----------------------------|
|        | GEOPROBE SOIL BORING        |
|        | MONITORING WELL             |
|        | POTABLE WELL                |
|        | UTILITY POLE                |
|        | OVERHEAD UTILITIES LINE     |
|        | PROPERTY LINE (APPROXIMATE) |
|        | GAS LINE                    |
|        | TELEPHONE LINE              |
|        | SUB-SLAB VAPOR PROBE        |



BURNETT COUNTY-FORMER HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WISCONSIN 54872

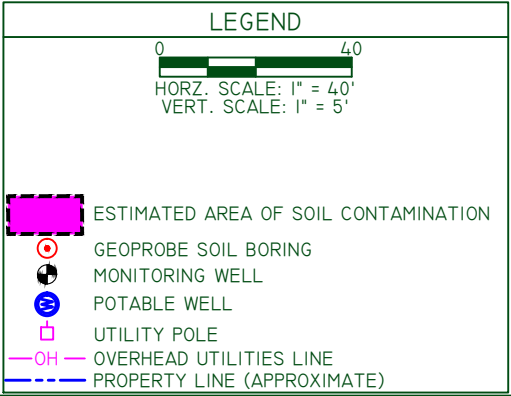
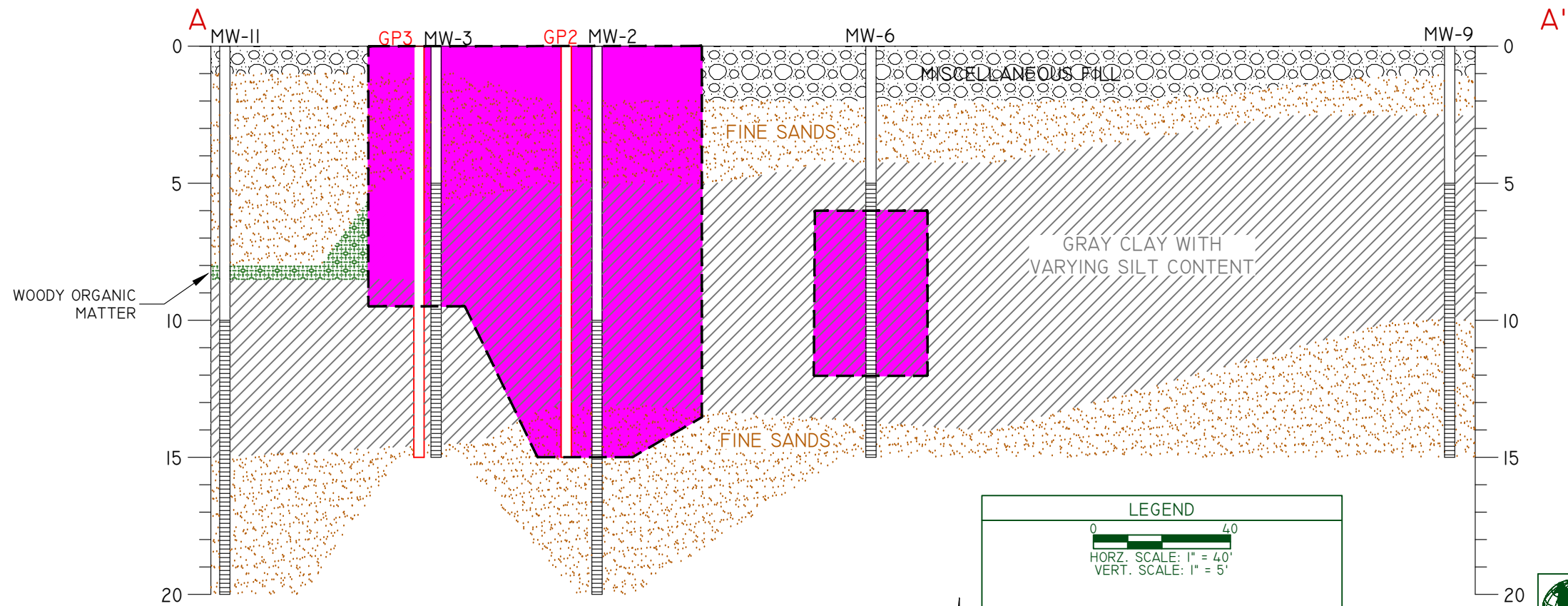
FIGURE 2 : SITE MAP

|                         |                  |                    |
|-------------------------|------------------|--------------------|
| PROJECT No.<br>7367AxUC | DRAWN BY:<br>AJG | DATE:<br>3/31/2017 |
|-------------------------|------------------|--------------------|

REI Engineering, INC.



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-XS.DWG LAYOUT: XS-A PLOTTED: MAR 30, 2017 - 10:02AM PLOTTED BY: ALANG



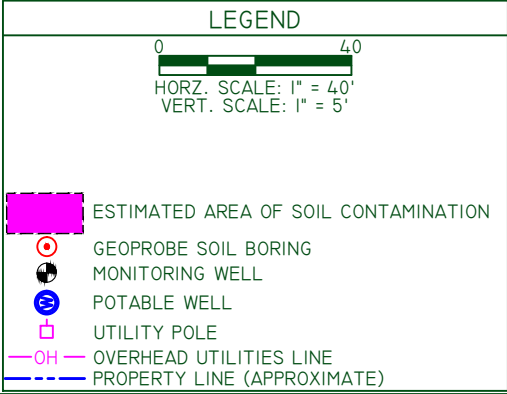
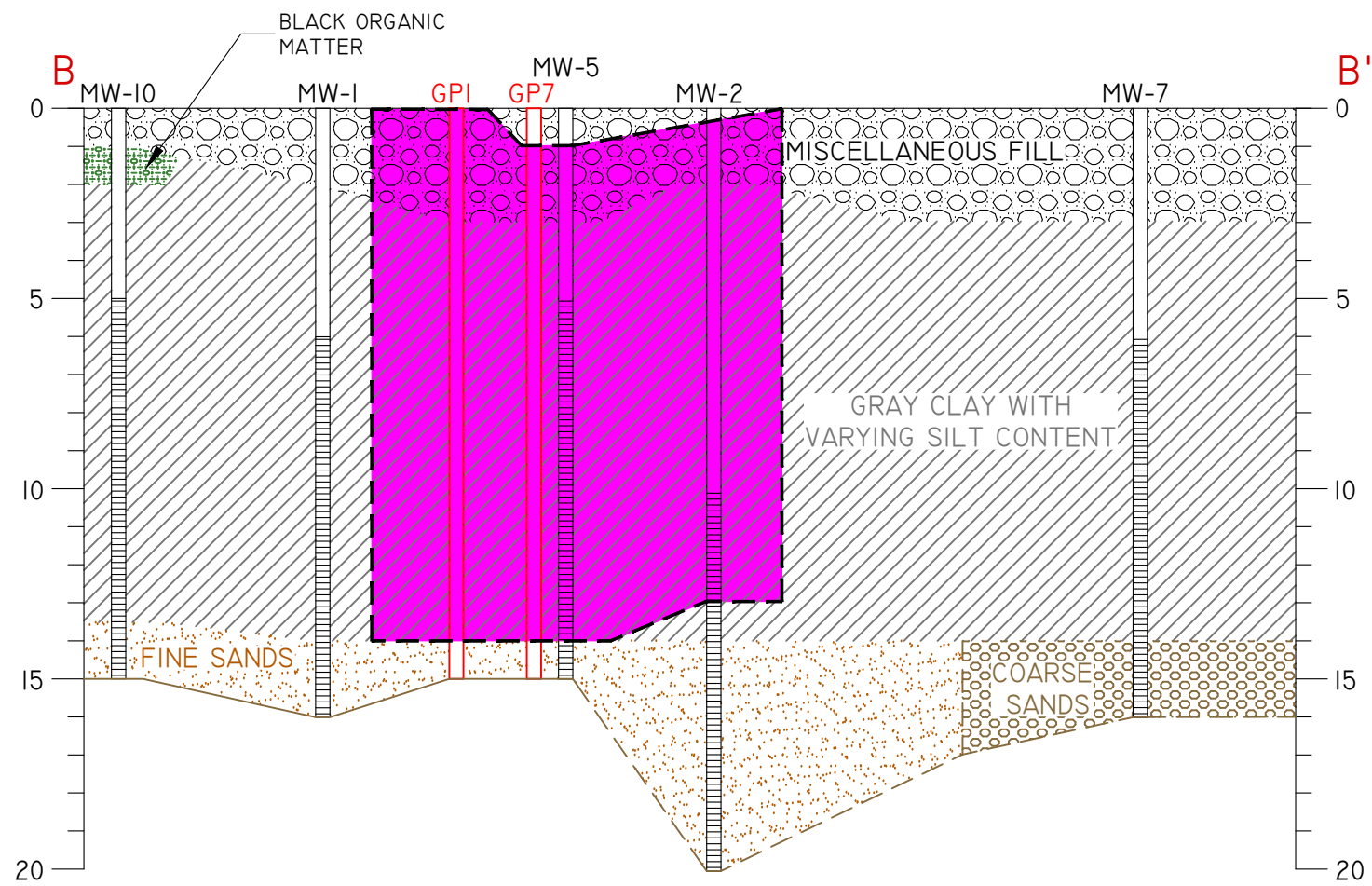
BURNETT COUNTY-FORMER HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WISCONSIN 54872

FIGURE 3a : CROSS SECTION A-A'

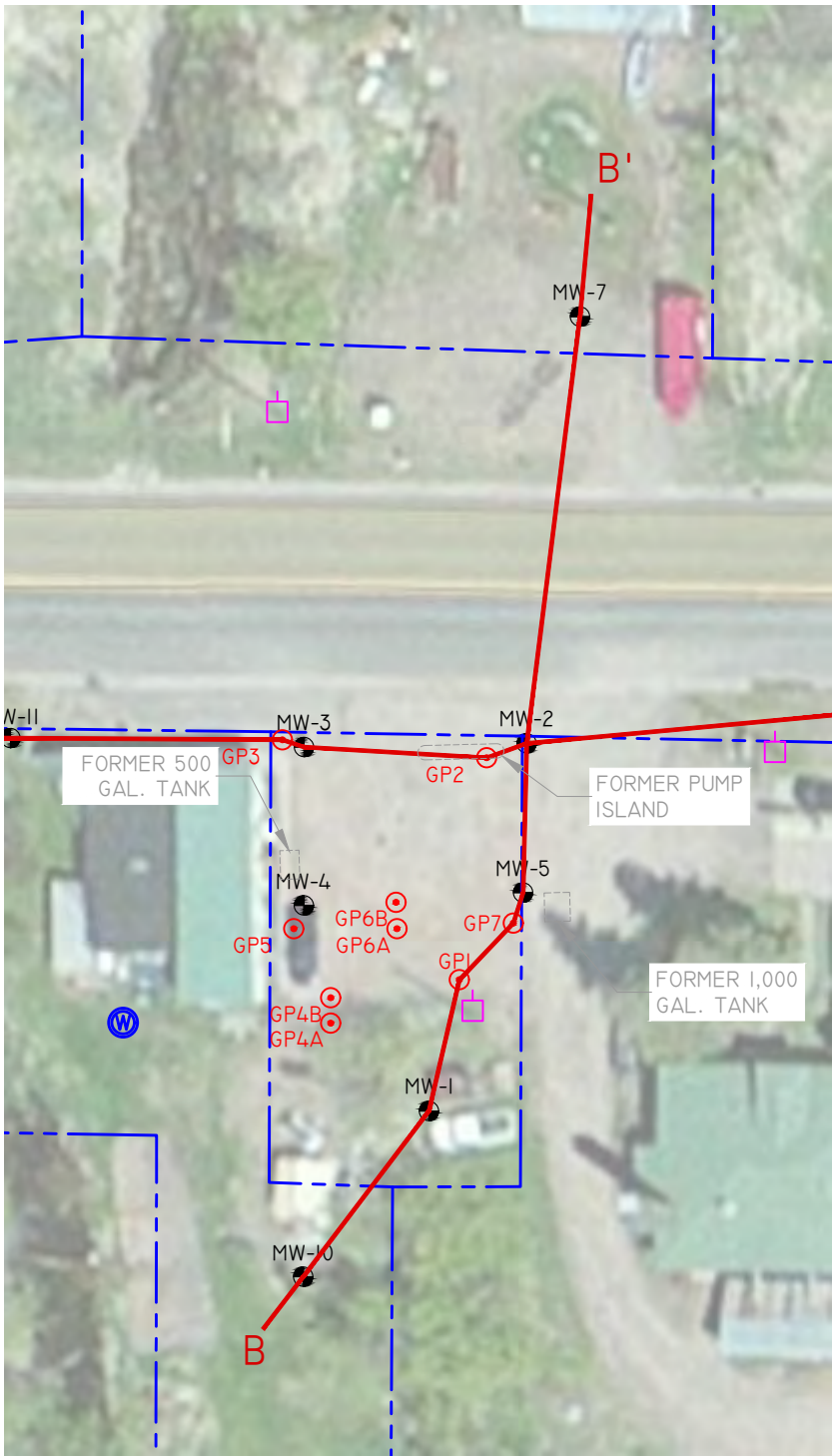
|                         |                  |                    |
|-------------------------|------------------|--------------------|
| PROJECT No.<br>7367AxUC | DRAWN BY:<br>AJG | DATE:<br>3/27/2017 |
|-------------------------|------------------|--------------------|

REI Engineering, INC.

DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\dwg\7367-XS.dwg LAYOUT: xs-b PLOTTED: MAR 30, 2017 - 10:01AM PLOTTED BY: ALANG



REI Engineering, INC.



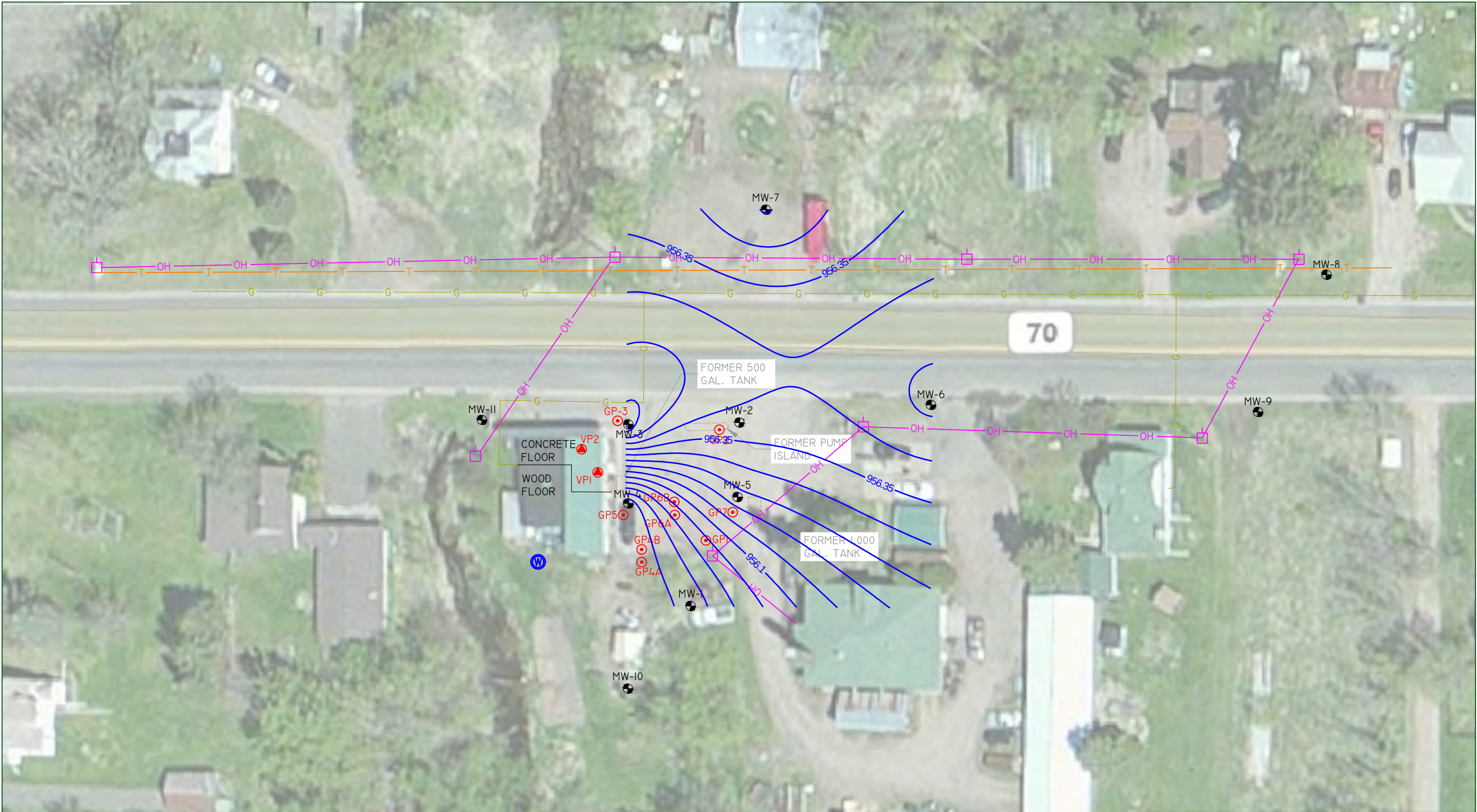
BURNETT COUNTY-FORMER HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WISCONSIN 54872

FIGURE 3b : CROSS SECTION B-B'

|                         |                  |                    |
|-------------------------|------------------|--------------------|
| PROJECT No.<br>7367AxUC | DRAWN BY:<br>AJG | DATE:<br>3/27/2017 |
|-------------------------|------------------|--------------------|



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-GW-09\4\6.DWG LAYOUT: GW PLOTTED: APR 05, 2017 - 8:50AM PLOTTED BY: ALANG



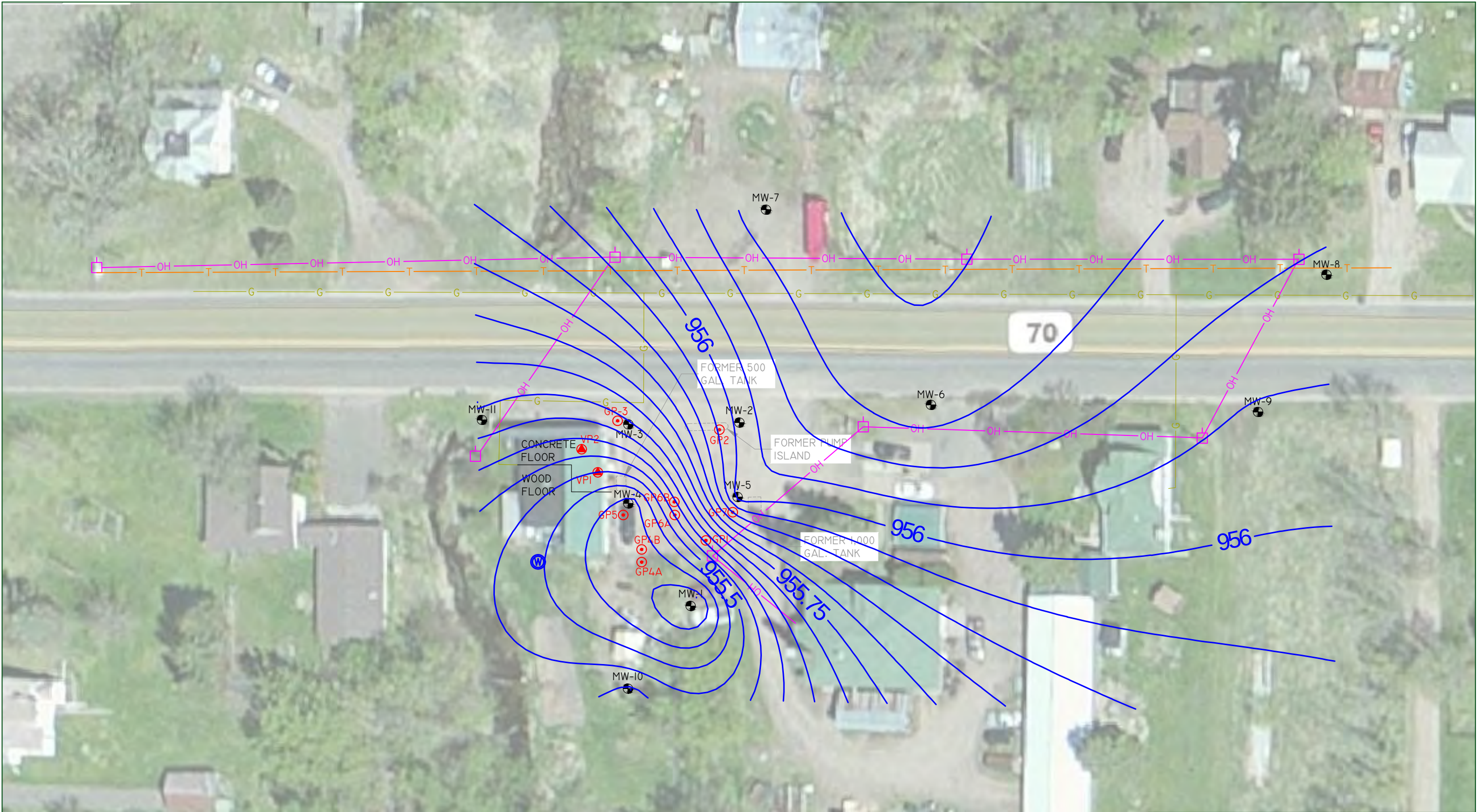
| LEGEND |                         |  |                      |
|--------|-------------------------|--|----------------------|
|        | GEOPROBE SOIL BORING    |  | GAS LINE             |
|        | MONITORING WELL         |  | TELEPHONE LINE       |
|        | POTABLE WELL            |  | SUB-SLAB VAPOR PROBE |
|        | UTILITY POLE            |  |                      |
|        | OVERHEAD UTILITIES LINE |  |                      |
|        | GROUNDWATER CONTOUR     |  |                      |

REI Engineering, INC.

|                                                     |                                                                                      |                    |  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|--|
| <br>CIVIL & ENVIRONMENTAL<br>ENGINEERING, SURVEYING | BURNETT COUNTY-FORMER HEDLUND DX<br>10557 STATE HIGHWAY 70<br>FALUN, WISCONSIN 54872 |                    |  |
|                                                     | FIGURE 4a : GROUNDWATER FLOW MAP (9/14/2016)                                         |                    |  |
| PROJECT No.<br>7367AxUC                             | DRAWN BY:<br>AJG                                                                     | DATE:<br>3/27/2017 |  |



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-GW-01\217.DWG LAYOUT: GW PLOTTED: APR 05, 2017 - 9:26AM PLOTTED BY: ALANG



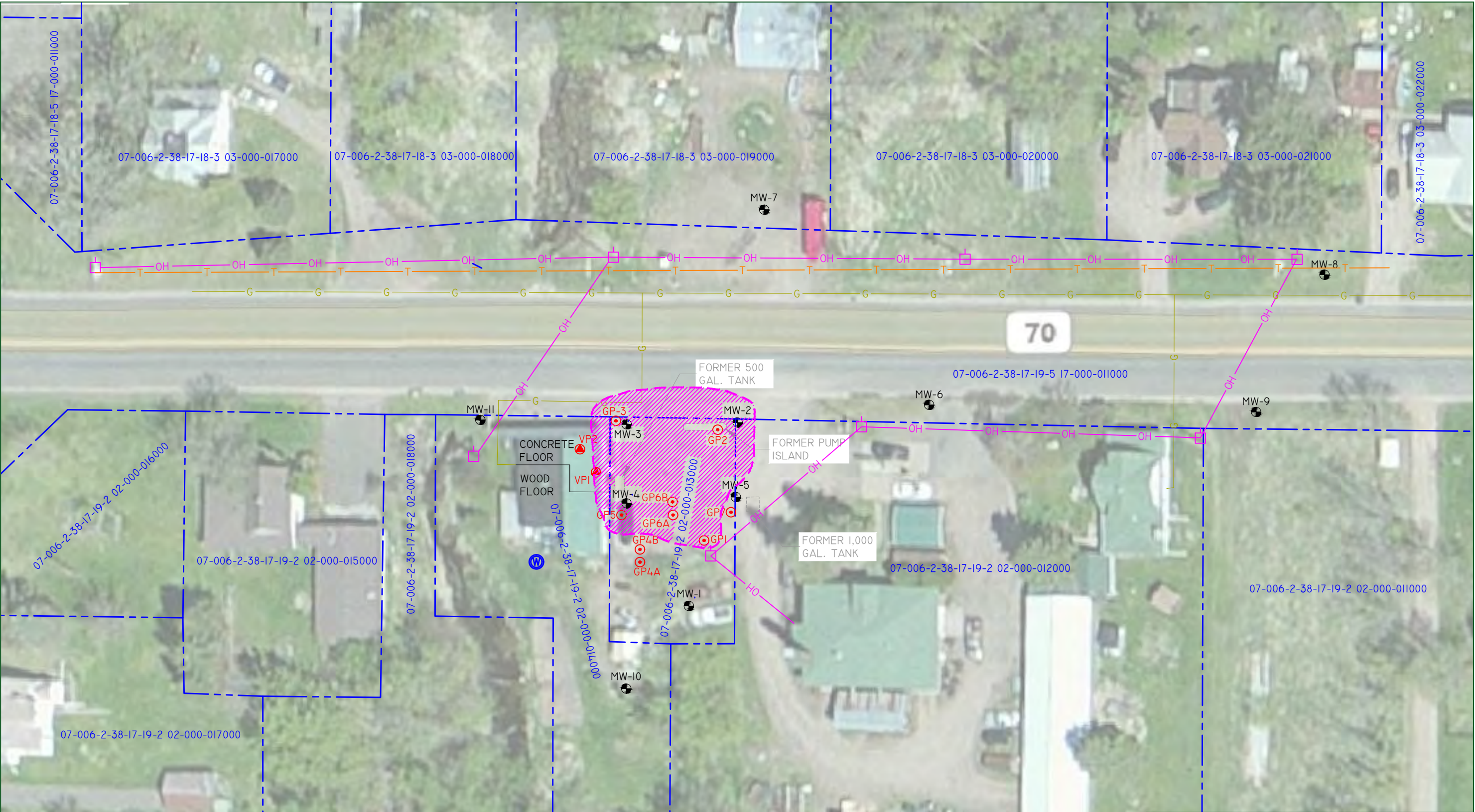
| LEGEND                  |                         |  |                      |
|-------------------------|-------------------------|--|----------------------|
| 0 40<br>SCALE: 1" = 40' |                         |  |                      |
|                         | GEOPROBE SOIL BORING    |  | GAS LINE             |
|                         | MONITORING WELL         |  | TELEPHONE LINE       |
|                         | POTABLE WELL            |  | SUB-SLAB VAPOR PROBE |
|                         | UTILITY POLE            |  |                      |
|                         | OVERHEAD UTILITIES LINE |  |                      |
|                         | GROUNDWATER CONTOUR     |  |                      |

REI Engineering, INC.

|                                              |                  |                                                                                      |  |
|----------------------------------------------|------------------|--------------------------------------------------------------------------------------|--|
|                                              |                  | BURNETT COUNTY-FORMER HEDLUND DX<br>10557 STATE HIGHWAY 70<br>FALUN, WISCONSIN 54872 |  |
| FIGURE 4b : GROUNDWATER FLOW MAP (1/12/2017) |                  |                                                                                      |  |
| PROJECT No.<br>7367AxUC                      | DRAWN BY:<br>AJG | DATE:<br>3/27/2017                                                                   |  |



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-SOIL-CONTAM.DWG LAYOUT: SOIL-CONTAM.PLOTTED: APR 05, 2017 - 8:59AM PLOTTED BY: ALANG



| LEGEND |                         |  |                              |
|--------|-------------------------|--|------------------------------|
|        | GEOPROBE SOIL BORING    |  | GAS LINE                     |
|        | MONITORING WELL         |  | TELEPHONE LINE               |
|        | POTABLE WELL            |  | ESTIMATED SOIL CONTAMINATION |
|        | UTILITY POLE            |  | SUB-SLAB VAPOR PROBE         |
|        | OVERHEAD UTILITIES LINE |  |                              |



BURNETT COUNTY-FORMER HEDLUND DX  
10557 STATE HIGHWAY 70  
FALUN, WISCONSIN 54872

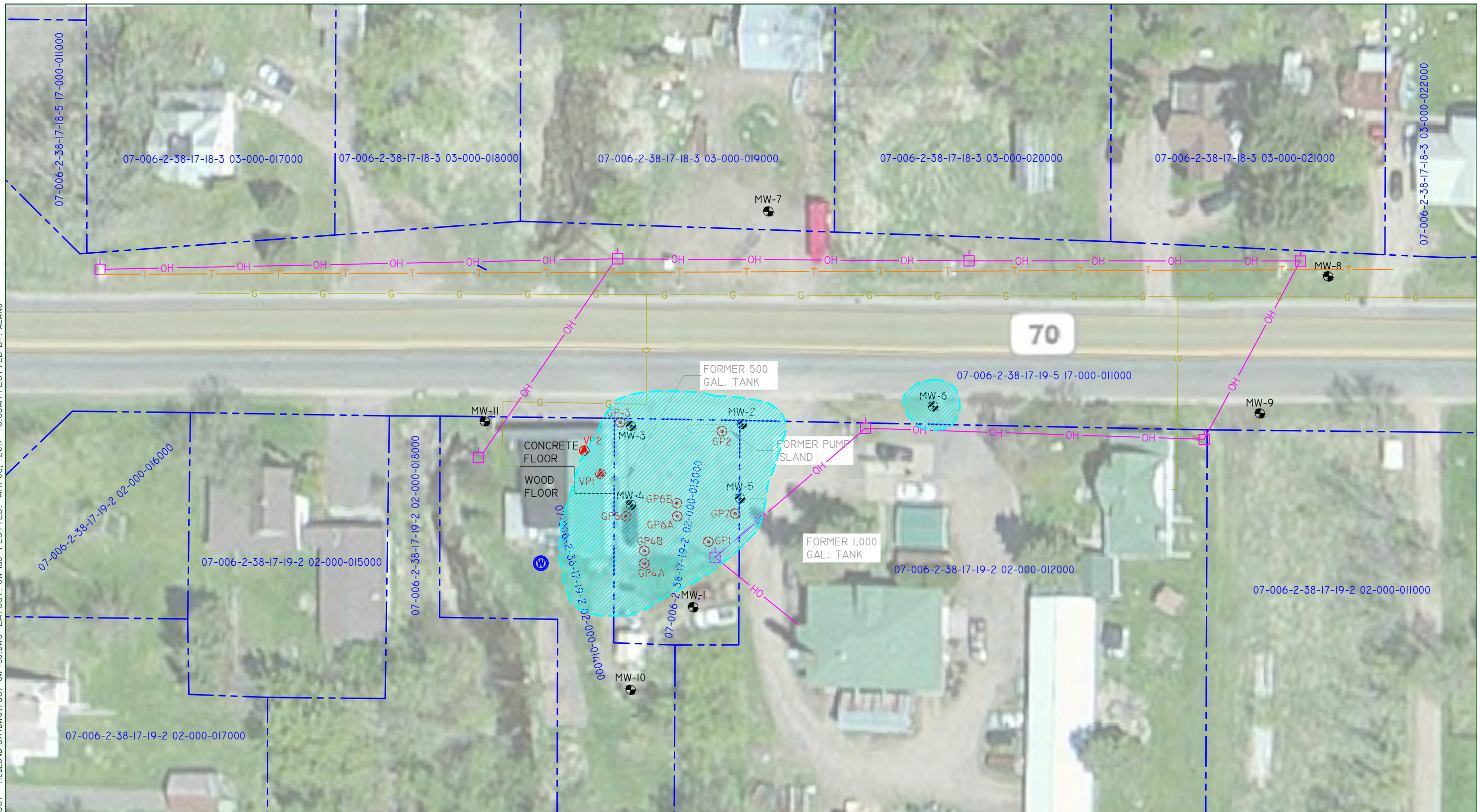
FIGURE 5 : ESTIMATED EXTENT OF PETROLEUM RELATED SOIL CONTAMINATION

|                         |                  |                    |
|-------------------------|------------------|--------------------|
| PROJECT No.<br>7367AxUC | DRAWN BY:<br>AJG | DATE:<br>3/30/2017 |
|-------------------------|------------------|--------------------|

REI Engineering, INC.



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-GW-ISO.DWG LAYOUT: GW-ISO PLOTTED BY: ALANG



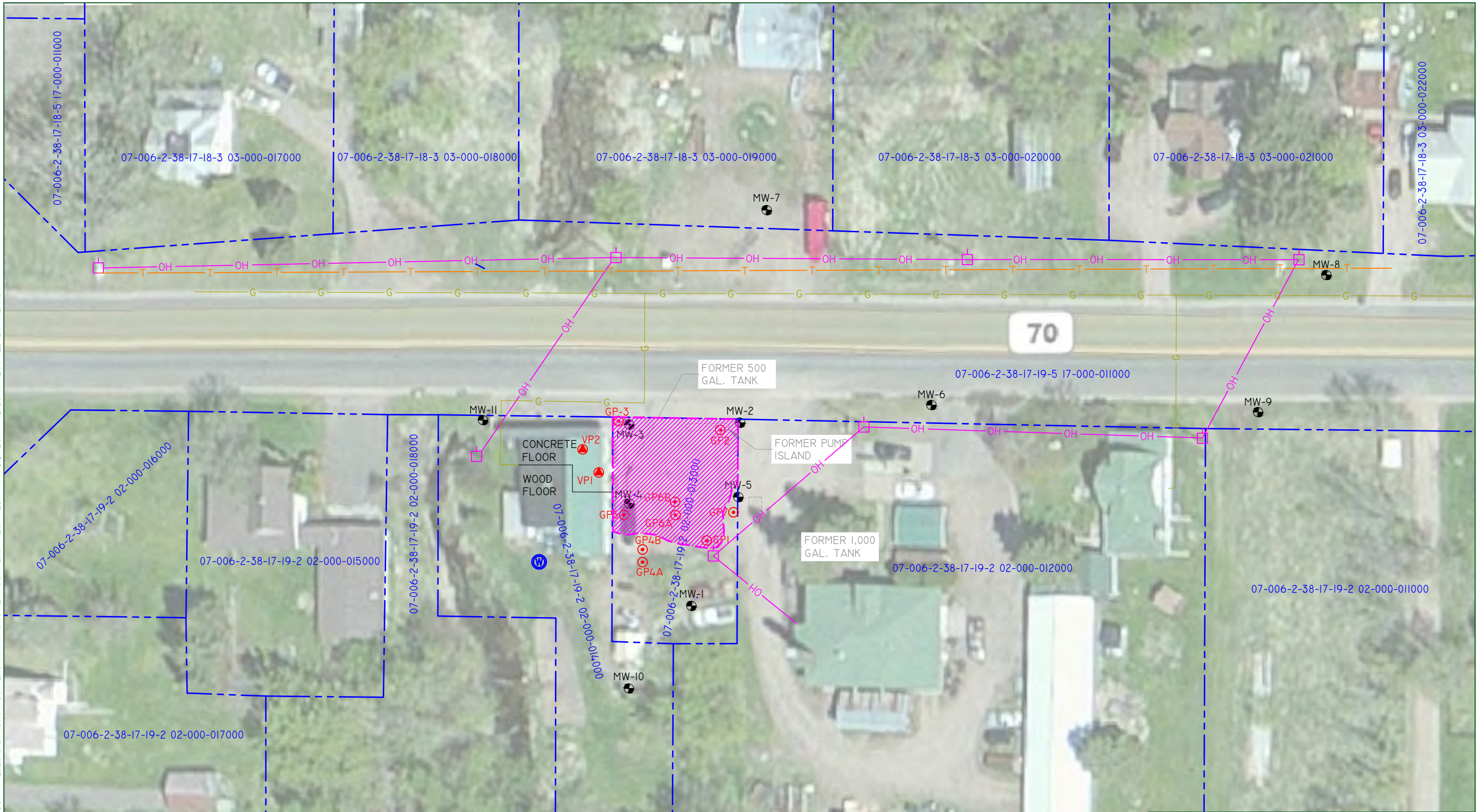
| LEGEND |                         |  |                            |
|--------|-------------------------|--|----------------------------|
|        | GEOPROBE SOIL BORING    |  | GAS LINE                   |
|        | MONITORING WELL         |  | TELEPHONE LINE             |
|        | POTABLE WELL            |  | ESTIMATED GW CONTAMINATION |
|        | UTILITY POLE            |  | SUB-SLAB VAPOR PROBE       |
|        | OVERHEAD UTILITIES LINE |  |                            |

REI Engineering, INC.

|                                                     |                                                                                      |                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|
| <br>CIVIL & ENVIRONMENTAL<br>ENGINEERING, SURVEYING | BURNETT COUNTY-FORMER HEDLUND DX<br>10557 STATE HIGHWAY 70<br>FALUN, WISCONSIN 54872 |                    |
|                                                     | FIGURE 6 : ESTIMATED EXTENT OF PETROLEUM<br>RELATED GROUNDWATER CONTAMINATION        |                    |
| PROJECT No.<br>7367AxUC                             | DRAWN BY:<br>AJG                                                                     | DATE:<br>3/31/2017 |



DRAWING FILE: P:\7300-7399\7367 - HEDLUND DX\DWG\7367-EXCAVATION.DWG LAYOUT: EXC PLOTTED: MAR 31, 2017 - 12:30PM PLOTTED BY: ALANG



| LEGEND |                         |  |                          |
|--------|-------------------------|--|--------------------------|
|        | GEOPROBE SOIL BORING    |  | GAS LINE                 |
|        | MONITORING WELL         |  | TELEPHONE LINE           |
|        | POTABLE WELL            |  | PROPOSED EXCAVATION AREA |
|        | UTILITY POLE            |  | SUB-SLAB VAPOR PROBE     |
|        | OVERHEAD UTILITIES LINE |  |                          |

REI Engineering, INC.

|                                                     |                                                                                      |                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------|--------------------|
| <br>CIVIL & ENVIRONMENTAL<br>ENGINEERING, SURVEYING | BURNETT COUNTY-FORMER HEDLUND DX<br>10557 STATE HIGHWAY 70<br>FALUN, WISCONSIN 54872 |                    |
|                                                     | FIGURE 7 : AREA OF PROPOSED EXCAVATION                                               |                    |
| PROJECT No.<br>7367AxUC                             | DRAWN BY:<br>AJG                                                                     | DATE:<br>3/31/2017 |

## **APPENDIX A**

### **SELECT SECTIONS FROM PREVIOUS REPORTS**





FIGURE 3-1

# AQUA-TECH INC.

SCALE: 1"=100'

APPROVED:

DRAWN BY:

DATE: 8/23/90

RICHARDSON

HEDLUND D-X / BOB'S SERVICE

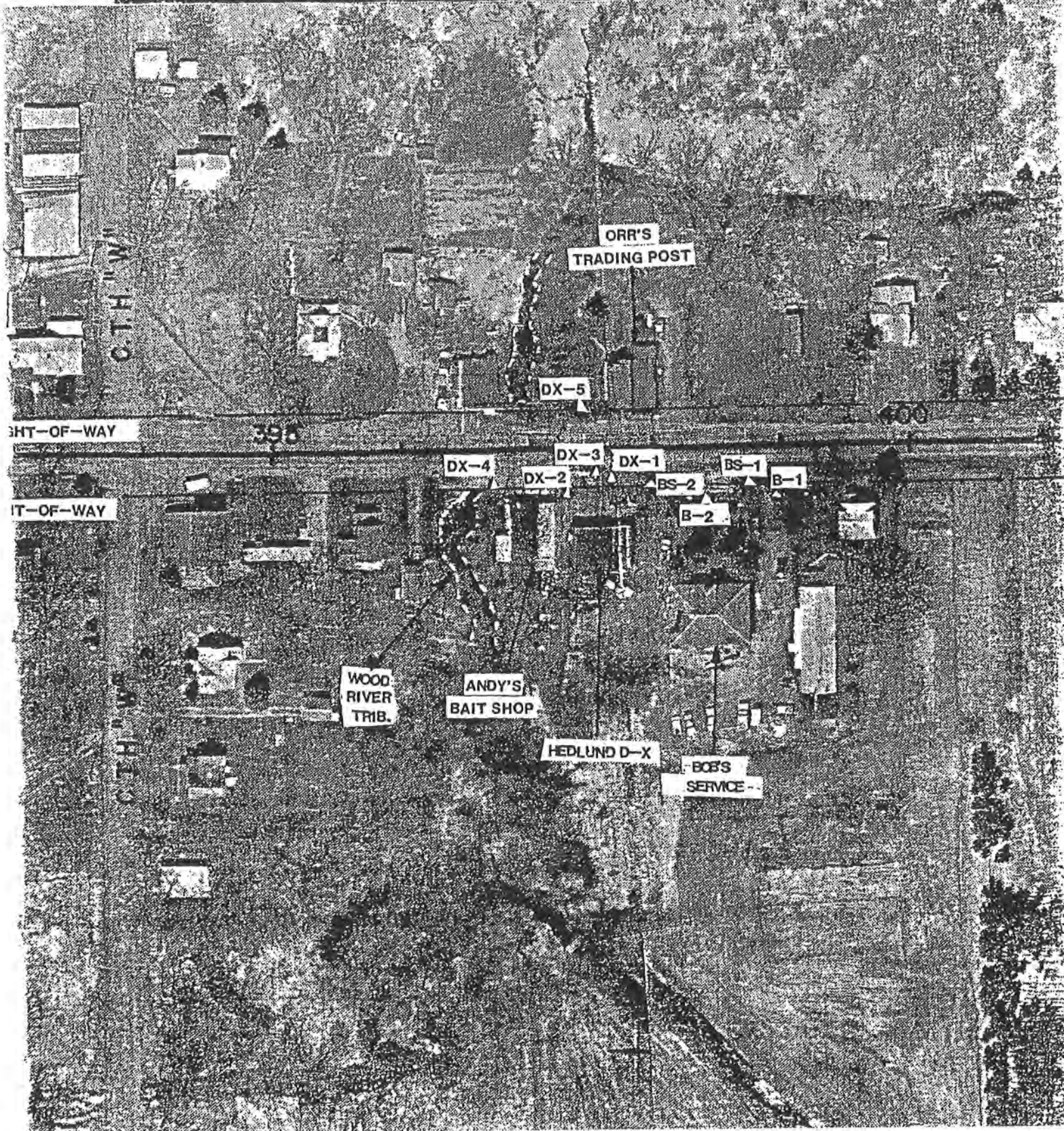
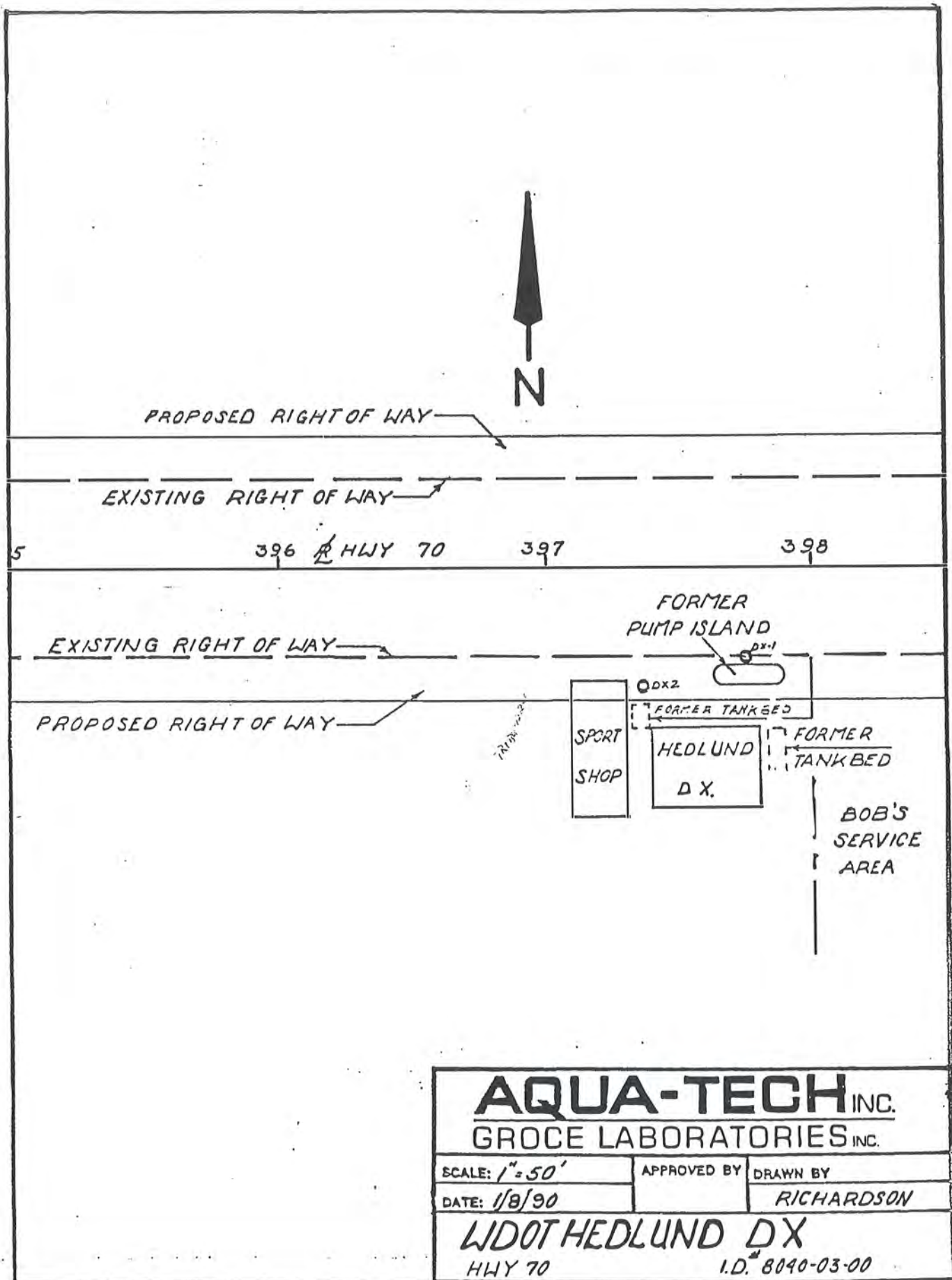
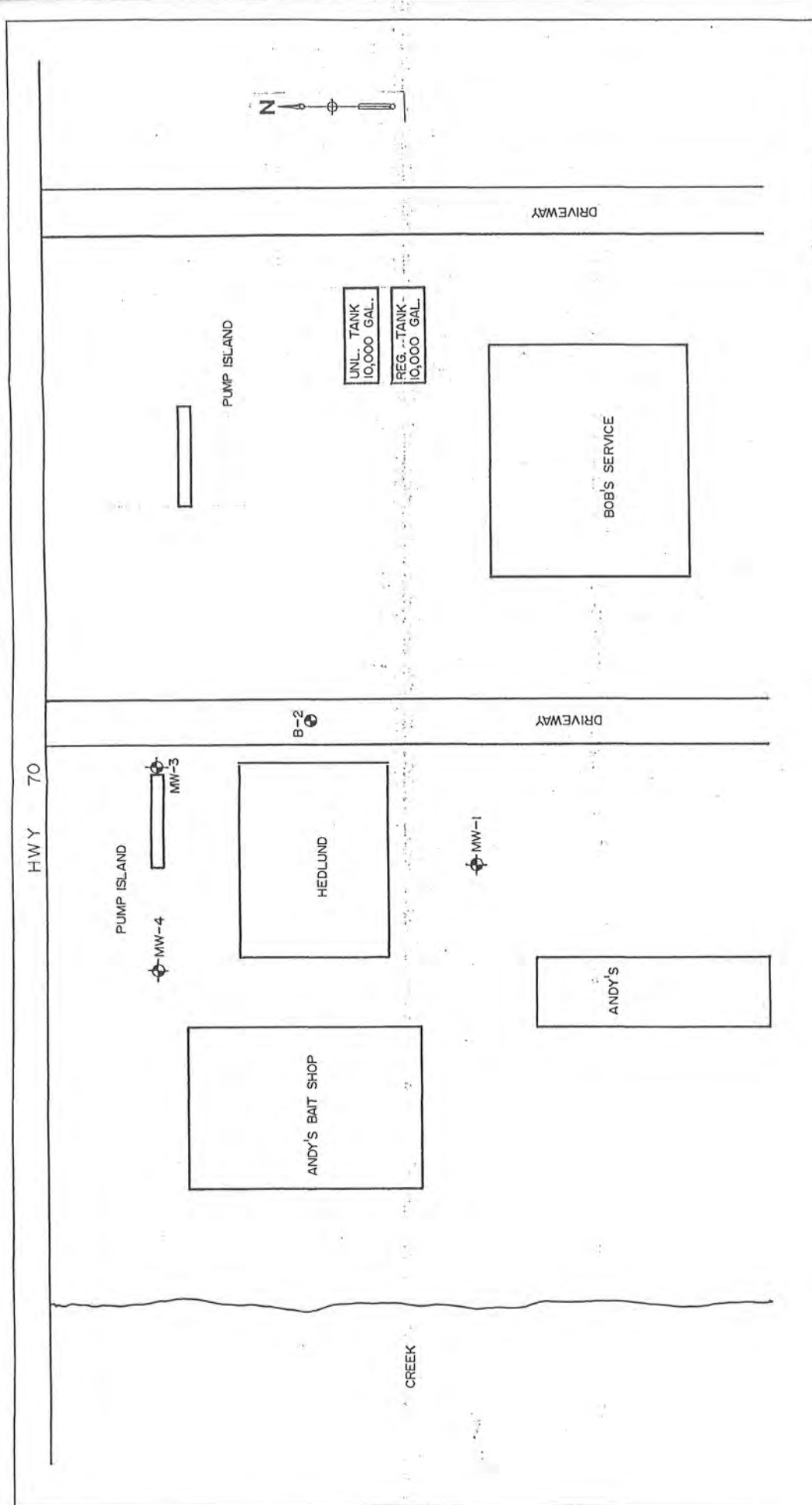
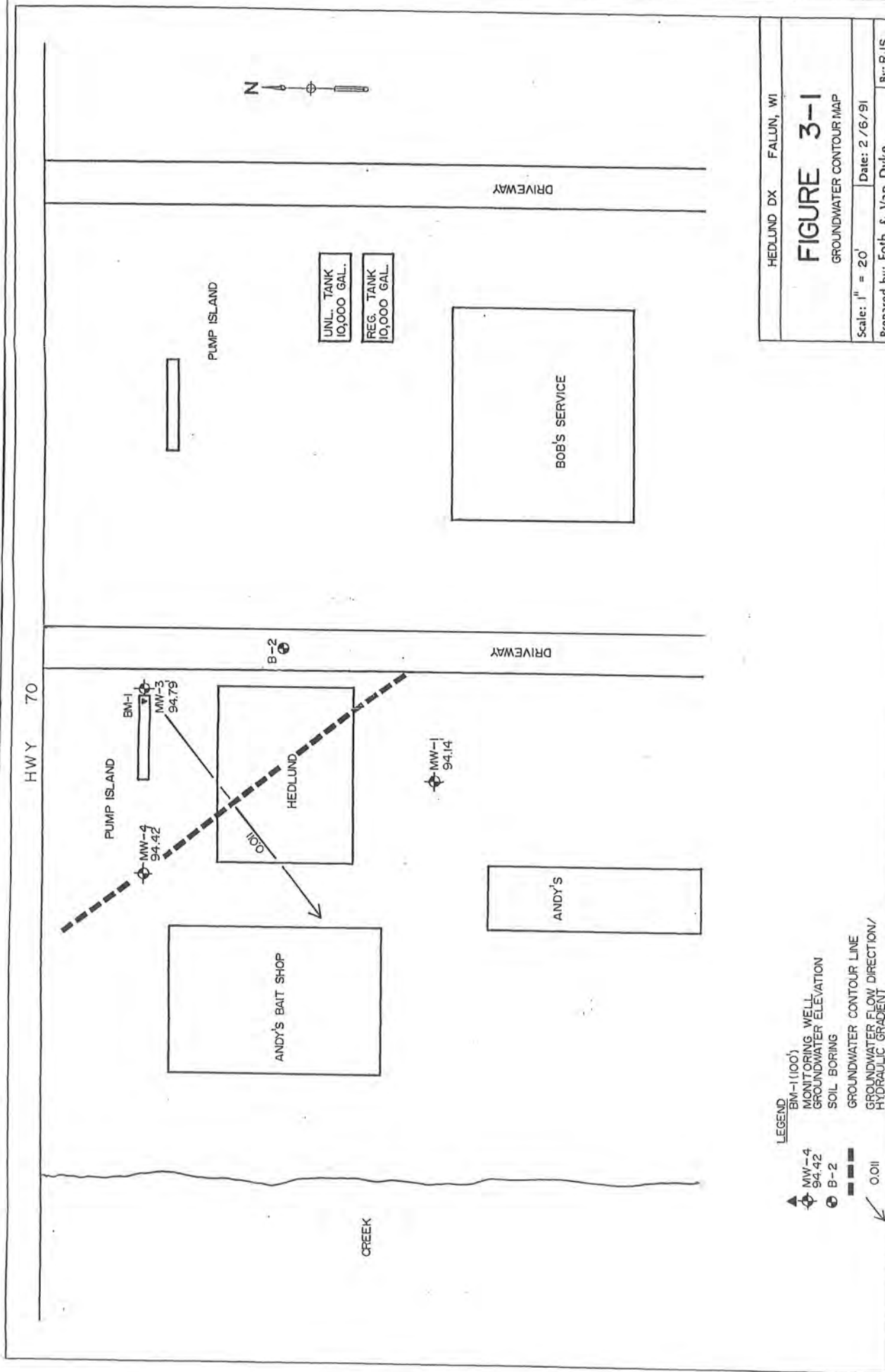


FIGURE 3-1  
SITE FEATURES AND SAMPLING LOCATIONS









|                              |              |
|------------------------------|--------------|
| HEDLUND DX FALLUN, WI        |              |
| <b>FIGURE 3-1</b>            |              |
| GROUNDWATER CONTOUR MAP      |              |
| Scale: 1" = 20'              | Date: 2/6/91 |
| Prepared by: Foth & Van Dyke |              |
| By: RJS                      |              |

**AQUA-TECH, INC**

140 S. PARK ST.  
 PORT WASHINGTON, WI 53074  
 TELEPHONE:  
 (414) 284-5746  
 (414) 375-0407 (MILW METRO)

**SOIL PROFILE LOG**

PROJECT: DOT-HEDLUND DX  
 LOCATION: FALUN, WI  
 PROJECT#: DOT-8040-03-00  
 ATI WO#:

**BORING # 1****SURFACE ELEVATION -----****SAMPLES****DESCRIPTION AND REMARKS**

| NO.  | MOISTURE | R<br>E<br>C | HNU<br>LEVELS<br>(PPM) | DEPTH<br>(FT) |                                                                                                                                                                                      |
|------|----------|-------------|------------------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |          |             |                        | 0.0           |                                                                                                                                                                                      |
|      | DRY      |             | 180                    | 3.0           | 0.0 - 3.0' SAND & GRAVEL                                                                                                                                                             |
|      |          |             | 200                    | 5.0           | 3.0 - 5.0' SAND & BLUE/GREY CLAY                                                                                                                                                     |
| DX-1 |          |             | 250                    | 7.0           |                                                                                                                                                                                      |
|      |          |             | 20                     | 9.0           |                                                                                                                                                                                      |
|      |          |             | 10                     | 11.0          |                                                                                                                                                                                      |
| WDX1 | WET      |             | 1                      | 12.0          | 5.0 - 12.0' GREY CLAY                                                                                                                                                                |
|      |          |             |                        | 13.0          | 12.0 - 13.0' SAND                                                                                                                                                                    |
|      |          |             |                        |               | TERMINATED BORING AT 13.0'                                                                                                                                                           |
|      |          |             |                        |               | NO BEDROCK ENCOUNTERED<br>GROUNDWATER ENCOUNTERED AT 11.0'<br>SOIL SAMPLE DX-1 TAKEN AT 5.0 - 7.0'<br>GROUNDWATER SAMPLE WD-1 TAKEN AT 11.0 - 13.0'<br>GROUNDWATER HNU LEVEL: 20 PPM |

**WATER LEVEL OBSERVATIONS****GENERAL INFORMATION**

WHILE DRILLING -----

START DATE: 11/7/89 COMPLETION DATE: 11/7/89

DEPTH TO WATER 11.0'

DRILLING METHOD: HOLLOW STEM AUGER; SPLIT SPOON SAMPLER;  
HNU

DEPTH TO CAVE-IN -----

LOGGER: \_\_\_\_\_



**AQUA-TECH, INC**

140 S. PARK ST.  
 PORT WASHINGTON, WI 53074  
 TELEPHONE:  
 (414) 284-5746  
 (414) 375-0407 (MILW METRO)

**SOIL PROFILE LOG**

PROJECT: DOT-HEDLUND DX  
 LOCATION: FALUN, WI  
 PROJECT#: DOT-8040-03-00  
 ATI WO#:

**BORING # 2****SURFACE ELEVATION -----**

| SAMPLES |          |             |                        |                   | DESCRIPTION AND REMARKS                                                                                                                                                          |
|---------|----------|-------------|------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NO.     | MOISTURE | R<br>E<br>C | HNU<br>LEVELS<br>(PPM) | DEPTH<br>(FT)     |                                                                                                                                                                                  |
|         | MOIST    |             | 200                    | 0.0<br>2.0        | 0.0 - 6.0' SAND (GASOLINE SATURATED)                                                                                                                                             |
| DX-2    |          |             | 250                    | 4.0<br>5.0<br>6.0 |                                                                                                                                                                                  |
|         |          |             |                        | 10.0<br>15.0      | TERMINATED BORING AT 6.0'<br><br>BORING ENDED DUE TO EXTENSIVE CONTAMINATION<br>NO BEDROCK ENCOUNTERED<br>NO GROUNDWATER ENCOUNTERED<br>SOIL SAMPLE DX-2 COLLECTED AT 4.0 - 6.0' |

**WATER LEVEL OBSERVATIONS****GENERAL INFORMATION**

WHILE DRILLING -----

START DATE: 11/7/89

COMPLETION DATE: 11/7/89

DEPTH TO WATER -----

DRILLING METHOD: HOLLOW STEM AUGER; SPLIT SPOON SAMPLER;  
HNU

DEPTH TO CAVE-IN -----

LOGGER: \_\_\_\_\_

|                                                                                                                                      |                   |     |                     |                                                                                                                                        |                                                                                                      |               |  |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----|---------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------|--|
| <b>AQUA-TECH, INC</b><br>140 S. PARK ST.<br>PORT WASHINGTON, WI 53074<br>TELEPHONE:<br>(414) 284-5746<br>(414) 375-0407 (MILW METRO) |                   |     |                     | <b>SOIL PROFILE LOG</b><br>PROJECT: <b>HEDLUND DX</b><br>LOCATION: STATE HWY 70<br>FALUN, WI<br>PROJECT#: 8040-03-00<br>ATI WO#: 91036 |                                                                                                      |               |  |
| BORING <u>DX-3</u>                                                                                                                   |                   |     |                     | SURFACE ELEVATION _____                                                                                                                |                                                                                                      |               |  |
| <b>SAMPLES</b>                                                                                                                       |                   |     |                     | <b>DESCRIPTION AND REMARKS</b>                                                                                                         |                                                                                                      |               |  |
| NO.                                                                                                                                  | (bpf)<br>MOISTURE | REC | PID LEVELS<br>(PPM) |                                                                                                                                        |                                                                                                      | DEPTH<br>(FT) |  |
|                                                                                                                                      |                   |     |                     | 0.0                                                                                                                                    | 0.0' - 0.4' GRAVEL (POTHOLE OF ASPHALT)<br>0.4' - 2.0' SAND AND GRAVEL<br><br>2.0' - 13.0' GREY CLAY |               |  |
|                                                                                                                                      |                   |     | 30                  |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     | 50                  |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     | 150                 |                                                                                                                                        |                                                                                                      |               |  |
| WDX-3<br>DX-3                                                                                                                        |                   |     | 200                 | 5.0<br>▼                                                                                                                               |                                                                                                      |               |  |
|                                                                                                                                      |                   |     |                     |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     | 4                   | 10.0                                                                                                                                   |                                                                                                      |               |  |
|                                                                                                                                      |                   |     |                     |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     | 0                   |                                                                                                                                        | 13.0' - 15.0' MEDIUM BROWN SAND                                                                      |               |  |
|                                                                                                                                      |                   |     |                     | 15.0                                                                                                                                   | TERMINATED BORING AT 15.0'                                                                           |               |  |
|                                                                                                                                      |                   |     |                     |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     |                     |                                                                                                                                        |                                                                                                      |               |  |
|                                                                                                                                      |                   |     |                     | 20.0                                                                                                                                   |                                                                                                      |               |  |
| <b>WATER LEVEL OBSERVATIONS</b>                                                                                                      |                   |     |                     | <b>GENERAL INFORMATION</b>                                                                                                             |                                                                                                      |               |  |
| WHILE DRILLING -----                                                                                                                 |                   |     |                     | START DATE <u>6/07/90</u> COMPLETION DATE <u>6/07/90</u>                                                                               |                                                                                                      |               |  |
| DEPTH TO WATER <u>6.5' ▼</u>                                                                                                         |                   |     |                     | DRILLING METHOD: <u>HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING</u>                                                                       |                                                                                                      |               |  |
| DEPTH TO CAVE-IN -----                                                                                                               |                   |     |                     | LOGGER: <i>[Signature]</i>                                                                                                             |                                                                                                      |               |  |

**AQUA-TECH, INC**

140 S. PARK ST.

PORT WASHINGTON, WI 53074

TELEPHONE:

(414) 284-5746  
(414) 375-0407 (MILW METRO)**SOIL PROFILE LOG**PROJECT: **HEDLUND DX**LOCATION: STATE HWY 70  
FALUN, WI

PROJECT#: 8040-03-00

ATI WO#: 91036

BORING DX-4

SURFACE ELEVATION \_\_\_\_\_

**SAMPLES****DESCRIPTION AND REMARKS**

| NO.  | (bpf)<br>MOISTURE | REC | PID LEVELS<br>(PPM) | DEPTH<br>(FT) |                                                           |
|------|-------------------|-----|---------------------|---------------|-----------------------------------------------------------|
|      |                   |     | 100<br>(CUTTINGS)   | 0.0           | 0.0' - 0.2' ASPHALT<br>0.2' - 3.0' MEDIUM DARK BROWN SAND |
| DX-4 |                   |     | 200                 | 3.0           | 3.0' - 8.0' MEDIUM BROWN SAND                             |
|      |                   |     | 20                  | 5.0           |                                                           |
|      |                   |     | 1                   | 10.0          | 8.0' - 10.0' GREY CLAY                                    |
|      |                   |     |                     | 10.0          | TERMINATED BORING AT 10.0'                                |
|      |                   |     |                     | 15.0          |                                                           |
|      |                   |     |                     | 20.0          |                                                           |

**WATER LEVEL OBSERVATIONS****GENERAL INFORMATION**

WHILE DRILLING -----

START DATE 6/07/90COMPLETION DATE 6/07/90DEPTH TO WATER 4.0' ▽DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING

DEPTH TO CAVE-IN -----

LOGGER:

[illegible]



|                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(1) GENERAL INFORMATION</b><br>Well/Drillhole Location <u>DX-3</u> County <u>BURNETT</u><br>1/4 of _____ 1/4 of Sec. _____; T. _____ N. R. _____<br>(If applicable) Gov't Lot _____ Grid Number _____<br>Civil Town Name <u>HEDLUND DX</u><br>Street Address of Well <u>350' east of State HWY 70 &amp; Range Line Road</u><br>City, Village <u>FALUN, WI.</u><br>Date of Abandonment <u>6-7-90</u> |  | <b>(2) FACILITY NAME</b><br>Original Well Owner (If Known) _____<br>Present Well Owner _____<br>Street or Route _____<br>City, State, Zip Code _____<br>Well Number and/or Name (If Applicable) _____<br>Reason For Abandonment <u>TEST BORING FOR STH 70 Improvement</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**WELL/DRILLHOLE INFORMATION**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(3) Original Well/Drillhole Construction Completed on</b><br>(Date) <u>6-7-90</u><br><input type="checkbox"/> Water Well      Construction Report Available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Drillhole <u>Attached</u><br>Construction Type:<br><input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input type="checkbox"/> Other (Specify) _____<br>Well Type: <u>N/A</u><br><input type="checkbox"/> Unconsolidated Formation Well <input type="checkbox"/> Bedrock Well<br>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____<br>Casing Depth (ft.) _____<br>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>If Yes, To What Depth? _____ Feet | <b>(4) Depth to Water (Feet)</b> <u>6.5</u><br>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If No, Explain _____<br>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes, Was Drillhole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| (7) Kind of Sealing Material | From (FL) | To (FL) | No. Yards or Sacks Sealant | Mix Ratio or Mud Weight |
|------------------------------|-----------|---------|----------------------------|-------------------------|
| <u>BENTONITE</u>             | Surface   | 15.0    |                            | 100%                    |
|                              |           |         |                            |                         |
|                              |           |         |                            |                         |
|                              |           |         |                            |                         |

(8) Comments:

**(9) Name of Person or Firm Doing Sealing Work**  
AGUA-TECH INC.  
 Signature of Person Doing Work \_\_\_\_\_ Date Signed 7-23-90  
 Street or Route 1461 A PARK ST. Telephone Number (414) 284-5746  
 City, State, Zip Code PORT WASHINGTON WI 53074

| (10) FOR DNR OR COUNTY USE ONLY |                       |
|---------------------------------|-----------------------|
| Date Received/Inspected _____   | District/County _____ |
| Reviewer/Inspector _____        |                       |
| Follow-up Necessary _____       |                       |

|                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(1) GENERAL INFORMATION</b><br>Well/Drillhole Location <u>DX-4</u> County <u>BURNETT</u><br>1/4 of 1/4 of Sec. _____; T. _____ N; R. _____<br>(If applicable) Gov't Lot _____ Grid Number _____<br>Civil Town Name <u>HOLDAND DX</u><br>Street Address of Well <u>3501 EAST OF 5TH 70 AND RANGE LANE ROAD</u><br>City, Village <u>FALUN WI</u><br>Date of Abandonment <u>6-7-90</u> |  | <b>(2) FACILITY NAME</b><br>Original Well Owner (If Known) _____<br>Present Well Owner _____<br>Street or Route _____<br>City, State, Zip Code _____<br>Well Number and/or Name (If Applicable) _____<br>Reason For Abandonment <u>TEST BERING FOR 5TH 70 IMPROVEMENT</u> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**WELL/DRILLHOLE INFORMATION**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(3) Original Well/Drillhole Construction Completed on</b><br>(Date) <u>6-7-90</u><br><input type="checkbox"/> Water Well <input type="checkbox"/> Construction Report Available?<br><input checked="" type="checkbox"/> Drillhole <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><u>ACHIEVED</u><br>Construction Type:<br><input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input type="checkbox"/> Other (Specify) _____<br>Well Type: <u>N/A</u><br><input type="checkbox"/> Unconsolidated Formation Well <input type="checkbox"/> Bedrock Well<br>Total Well Depth (ft.) _____ Casing Diameter (ins.) _____<br>Casing Depth (ft.) _____<br>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>If Yes, To What Depth? _____ Feet | <b>(4) Depth to Water (Feet)</b> <u>4.0</u><br>Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If No, Explain _____<br>Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes, Was Drillhole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>(7) Kind of Sealing Material</b><br><u>BENTONITE</u> | <b>(5) Required Method of Placing Sealing Material</b><br><input type="checkbox"/> Conductor Pipe-Gravity, <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain) _____<br><b>(6) Acceptable Sealing Materials</b><br>Neat Cement Grout; Concrete Grout; Concrete; Clay Slurry;<br>Sodium Bentonite Slurry |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| From (Ft.) | To (Ft.) | No. Yards or Sacks Sealant | Mix Ratio or Mud Weight |
|------------|----------|----------------------------|-------------------------|
| Surface    | 10.0     |                            | 100%                    |
|            |          |                            |                         |
|            |          |                            |                         |
|            |          |                            |                         |

**(8) Comments:**

|                                                       |                                        |
|-------------------------------------------------------|----------------------------------------|
| <b>(9) Name of Person or Firm Doing Sealing Work</b>  |                                        |
| Signature of Person Doing Work <u>ALVA-TECH INC.</u>  | Date Signed <u>7-23-90</u>             |
| Street or Route <u>140 S. PARK ST.</u>                | Telephone Number <u>(414) 284-5742</u> |
| City, State, Zip Code <u>PORT WASHINGTON WI 53074</u> |                                        |

|                                        |                       |
|----------------------------------------|-----------------------|
| <b>(10) FOR DNR OR COUNTY USE ONLY</b> |                       |
| Date Received/Inspected _____          | District/County _____ |
| Reviewer/Inspector _____               |                       |
| Follow-up Necessary _____              |                       |



|                                                                          |                          |                                                                       |  |
|--------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|--|
| (1) GENERAL INFORMATION                                                  |                          | (2) FACILITY NAME                                                     |  |
| Well/Drillhole Location<br><i>DX-5</i>                                   | County<br><i>BURNETT</i> | Original Well Owner (If Known)                                        |  |
| 1/4 of 1/4 of Sec. ; T. N. R.<br>(If applicable)                         |                          | Present Well Owner                                                    |  |
| Gov't Lot Grid Number                                                    |                          | Street or Route                                                       |  |
| Civil Town Name<br><i>HEDLUND TX</i>                                     |                          | City, State, Zip Code                                                 |  |
| Street Address of Well<br><i>350' EAST OF STH 70 AND RANGE LANE ROAD</i> |                          | Well Number and/or Name (If Applicable)                               |  |
| City, Village<br><i>FALUN WI</i>                                         |                          | Reason For Abandonment<br><i>TEST BOREHOLE FOR STH 70 Improvement</i> |  |
| Date of Abandonment<br><i>6-7-90</i>                                     |                          |                                                                       |  |

WELL/DRILLHOLE INFORMATION

|                                                                                                                                                                                                                                 |                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| (3) Original Well/Drillhole Construction Completed on<br>(Date) <i>6-7-90</i>                                                                                                                                                   |                                                                                                                          | (4) Depth to Water (Feet) <i>5.0'</i>                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <input type="checkbox"/> Water Well<br><input type="checkbox"/> Drillhole                                                                                                                                                       | Construction Report Available?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>Attached</i> | Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable<br>Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If No, Explain |  |
| Construction Type:<br><input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input type="checkbox"/> Other (Specify)                                          |                                                                                                                          | Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Sealing Material Rise to Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Did Material Settle After 24 Hours? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If Yes, Was Drillhole Retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                              |  |
| Well Type: <i>N/A</i><br><input type="checkbox"/> Unconsolidated Formation Well <input type="checkbox"/> Bedrock Well                                                                                                           |                                                                                                                          | (5) Required Method of Placing Sealing Material                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Total Well Depth (ft.) Casing Diameter (ins.)<br>Casing Depth (ft.)<br>Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown<br>If Yes, To What Depth? Feet |                                                                                                                          | <input type="checkbox"/> Conductor Pipe-Gravity, <input type="checkbox"/> Conductor Pipe-Pumped<br><input type="checkbox"/> Dump Bailer <input type="checkbox"/> Other (Explain)                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                 |                                                                                                                          | (6) Acceptable Sealing Materials                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                                                                                                                                                                 |                                                                                                                          | Neat Cement Grout; Concrete Grout; Concrete; Clay Slurry;<br>Sodium Bentonite Slurry                                                                                                                                                                                                                                                                                                                                                                                  |  |

| (7) Kind of Sealing Material | From (Ft.)     | To (Ft.)    | No. Yards or Sacks Sealant | Mix Ratio or Mud Weight |
|------------------------------|----------------|-------------|----------------------------|-------------------------|
| <i>BENTONITE</i>             | <i>Surface</i> | <i>10.0</i> |                            | <i>100%</i>             |
|                              |                |             |                            |                         |
|                              |                |             |                            |                         |
|                              |                |             |                            |                         |

(8) Comments:

|                                                                       |                                           |
|-----------------------------------------------------------------------|-------------------------------------------|
| (9) Name of Person or Firm Doing Sealing Work<br><i>AQUA-TECH INC</i> |                                           |
| Signature of Person Doing Work<br><i>[Signature]</i>                  | Date Signed<br><i>7-23-90</i>             |
| Street or Route<br><i>1425 PARK ST.</i>                               | Telephone Number<br><i>(414) 284-5700</i> |
| City, State, Zip Code<br><i>PORT WASHINGTON WI 53074</i>              |                                           |

|                                 |                 |
|---------------------------------|-----------------|
| (10) FOR DNR OR COUNTY USE ONLY |                 |
| Date Received/Inspected         | District/County |
| Reviewer/Inspector              |                 |
| Follow-up Necessary             |                 |

| FOTH & VAN DYKE                                                                                                                                                                                                                                                                                                                                                                                                |                      | Client: J. Stoessel<br>Project: Hedlund DX, Falun, WI.<br>Prepared by: RJS<br>Checked by: |      | Scope I.D.: 90S81<br>Page: 1<br>Date: 2/18/91<br>Date: |    |                                                                                       |                                                                                               |       |                     |                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------|------|--------------------------------------------------------|----|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------|---------------------|--------------------------------|
| REPORT - LOG OF TEST BORING<br><div style="display: flex; justify-content: space-between;"> <div>           Start Date: 12/19/90<br/>           Completion Date: 12/19/90<br/>           Logged by: RJS         </div> <div>           Test Boring No.: B-1<br/>           Location: south side of building<br/>           Boring Depth: 14.5 ft<br/>           Surface Elevation: 999.2         </div> </div> |                      |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| MSL<br>ELEV                                                                                                                                                                                                                                                                                                                                                                                                    | DEPTH FR<br>LND SURF | SAMP DEPTH<br>INTERVAL                                                                    | TYPE | #                                                      | N  | REC<br>(ft)                                                                           | DESCRIPTION OF MATERIAL                                                                       | CLASS | LABORATORY<br>TESTS | DRILLING AND<br>SAMPLING NOTES |
| 999.2                                                                                                                                                                                                                                                                                                                                                                                                          | --0                  |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 2.5-4.5                                                                                   | SB   | 11                                                     | 13 | 0.6                                                                                   | 2.5YR 4/0 dk. gray, lean CLAY,<br>slightly sandy, mod. plasticity,<br>moist                   | CL    |                     | TIP 28.3 ppm                   |
| 994.2                                                                                                                                                                                                                                                                                                                                                                                                          | --5.0                | 5.0-7.0                                                                                   | SB   | 12                                                     | 11 | 0.6                                                                                   | as above, saturated at 6.0'                                                                   |       | lab sample          | TIP NA                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 7.5-9.5                                                                                   | SB   | 13                                                     | 7  | 1.1                                                                                   | as above, w- some silt,<br>friable, dense                                                     |       |                     | TIP 4.4 ppm                    |
| 989.2                                                                                                                                                                                                                                                                                                                                                                                                          | --10                 | 10.0-12.0                                                                                 | SB   | 14                                                     | 11 | 1.7                                                                                   | as above                                                                                      |       |                     | TIP 8.9 ppm                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                |                      | 12.5-14.5                                                                                 | SB   | 15                                                     | 42 | 0.5                                                                                   | as above                                                                                      |       |                     | TIP 3.8 ppm                    |
| 984.2                                                                                                                                                                                                                                                                                                                                                                                                          | --15                 |                                                                                           |      |                                                        |    | 1.5                                                                                   | 10YR 4/4 dk. ylwish brn, poorly<br>graded SAND, fn-med sand w-<br>some silt, loose, saturated | SP    |                     |                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                |                      |                                                                                           |      |                                                        |    |                                                                                       | End of boring at 14.5 feet.<br>Monitoring well MW-1 constructed<br>in borehole.               |       |                     |                                |
| 979.2                                                                                                                                                                                                                                                                                                                                                                                                          | --20                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 974.2                                                                                                                                                                                                                                                                                                                                                                                                          | --25                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 969.2                                                                                                                                                                                                                                                                                                                                                                                                          | --30                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 964.2                                                                                                                                                                                                                                                                                                                                                                                                          | --35                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 959.2                                                                                                                                                                                                                                                                                                                                                                                                          | --40                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 954.2                                                                                                                                                                                                                                                                                                                                                                                                          | --45                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 949.2                                                                                                                                                                                                                                                                                                                                                                                                          | --50                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| 944.2                                                                                                                                                                                                                                                                                                                                                                                                          | --55                 |                                                                                           |      |                                                        |    |                                                                                       |                                                                                               |       |                     |                                |
| DRILLING METHOD: 4.25" ID Hollow Stem Augers<br>DRILLING CONTRACTOR: WTD Environmental Drilling                                                                                                                                                                                                                                                                                                                |                      |                                                                                           |      |                                                        |    | DEPTH TO WATER -<br>AT COMPLETION: 7.7 ft. TOC<br>LATER TIME/DEPTH: 12-20-90/6.70 TOC |                                                                                               |       |                     |                                |



| FOTH & VAN DYKE                                                                                                                                                                                                                                                                                                                                                                                              | Client: J. Stoessel<br>Project: Hedlund DX, Falun, WI.<br>Prepared by: RJS<br>Checked by: | Scope I.D.: 90S81<br>Page: 1<br>Date: 2/19/91<br>Date: |      |     |    |          |                                                                                        |       |                  |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|------|-----|----|----------|----------------------------------------------------------------------------------------|-------|------------------|-----------------------------|
| REPORT - LOG OF TEST BORING                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                           |                                                        |      |     |    |          |                                                                                        |       |                  |                             |
| <div style="display: flex; justify-content: space-between;"> <div>             Start Date: 12/19/90<br/>             Completion Date: 12/19/90<br/>             Logged by: RJS           </div> <div>             Test Boring No.: B-2<br/>             Location: east side of building, tank basin<br/>             Boring Depth: 24 feet<br/>             Surface Elevation: 999.2           </div> </div> |                                                                                           |                                                        |      |     |    |          |                                                                                        |       |                  |                             |
| MSL ELEV                                                                                                                                                                                                                                                                                                                                                                                                     | DEPTH FROM LND SURF                                                                       | SAMP DEPTH INTERVAL                                    | TYPE | #   | N  | REC (ft) | DESCRIPTION OF MATERIAL                                                                | CLASS | LABORATORY TESTS | DRILLING AND SAMPLING NOTES |
| 999.2                                                                                                                                                                                                                                                                                                                                                                                                        | --0                                                                                       |                                                        |      |     |    |          |                                                                                        |       |                  |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 2.5-4.5                                                | SB   | 21  | 21 | 1.1      | 5G 6/1 grnish gray, lean CLAY mod. plasticity, dense, moist                            | CL    |                  | TIP 9.6 ppm                 |
| 994.2                                                                                                                                                                                                                                                                                                                                                                                                        | --5.0                                                                                     | 5.0-7.0                                                | SB   | 22  | 6  | 2.0      | 5Y 6/1 gray, lean CLAY, tr. sand & silt                                                |       |                  | TIP 10.2 ppm                |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 7.5-9.5                                                | SB   | 23  | 9  | 2.0      | as above, saturated                                                                    |       | lab sample       | TIP 5.7 ppm                 |
| 989.2                                                                                                                                                                                                                                                                                                                                                                                                        | --10                                                                                      | 10.0-12.0                                              | SB   | 24  | 27 | 1.0      | as above                                                                               |       |                  | TIP 7.6 ppm                 |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                        |      | 24a |    | 1.0      | 5YR 4/2 dk reddish brn, poorly SAND, fn sand, loose, saturated                         | SP    |                  | TIP 8.4 ppm                 |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 12.5-14.5                                              | SB   | 25  | 20 | 1.6      | as above, coarsening downward                                                          |       |                  | TIP 5.5 ppm                 |
| 984.2                                                                                                                                                                                                                                                                                                                                                                                                        | --15                                                                                      | 15.0-17.0                                              | SB   | 26  | 30 | 2.0      | as above                                                                               |       |                  | TIP 4.3 ppm                 |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 17.5-19.5                                              | SB   | 27  | 75 | 1.7      | as above                                                                               |       |                  | TIP 3.3 ppm                 |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                        |      | 27a |    | 0.3      | 2.5YR 3/4 dk reddish brn, sandy lean CLAY, low plasticity, dense wet                   | SC-CL |                  | TIP 3.2 ppm                 |
| 979.2                                                                                                                                                                                                                                                                                                                                                                                                        | --20                                                                                      | 20.0-22.0                                              | SB   | 28  | 56 | 0.5      | as above                                                                               |       |                  | TIP 3.4 ppm                 |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           |                                                        |      |     |    | 0.6      | 2.5YR 3/4 dk reddish brn, sandy lean CLAY, interbedded w-poorly graded SAND, saturated | SC-SP |                  |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                           | 22.5-24.5                                              | SB   | 29  | 48 | 1.8      | as above                                                                               |       |                  | TIP 0.5 ppm                 |
| 974.2                                                                                                                                                                                                                                                                                                                                                                                                        | --25                                                                                      |                                                        |      |     |    |          | End of boring at 24.5 feet. Borehole backfilled with bentonite.                        |       |                  |                             |
| 969.2                                                                                                                                                                                                                                                                                                                                                                                                        | --30                                                                                      |                                                        |      |     |    |          |                                                                                        |       |                  |                             |
| 964.2                                                                                                                                                                                                                                                                                                                                                                                                        | --35                                                                                      |                                                        |      |     |    |          |                                                                                        |       |                  |                             |
| <div style="display: flex; justify-content: space-between;"> <div>             DRILLING METHOD: 4.25" ID Hollow Stem Augers<br/>             DRILLING CONTRACTOR: WTD Environmental Drilling           </div> <div>             DEPTH TO WATER -<br/>             AT COMPLETION: 6.0'<br/>             LATER TIME/DEPTH: NA           </div> </div>                                                          |                                                                                           |                                                        |      |     |    |          |                                                                                        |       |                  |                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                        |      |     |    |          |                                                                                |       |                  |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------|------|-----|----|----------|--------------------------------------------------------------------------------|-------|------------------|-----------------------------|
| FOTH & VAN DYKE                                                                                                                                                                                                                                                                                                                                                                                                                            | Client: J. Stoessel<br>Project: Hedlund DX, Falun, WI.<br>Prepared by: RJS<br>Checked by: | Scope I.D.: 90S81<br>Page: 1<br>Date: 2/19/91<br>Date: |      |     |    |          |                                                                                |       |                  |                             |
| <b>REPORT - LOG OF TEST BORING</b><br><div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>           Start Date: 12/19/90<br/>           Completion Date: 12/19/90<br/>           Logged by: RJS         </div> <div>           Test Boring No.: B-3<br/>           Location: adjacent to pump island<br/>           Boring Depth: 14.5 feet<br/>           Surface Elevation: 999.1         </div> </div> |                                                                                           |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| MSL ELEV                                                                                                                                                                                                                                                                                                                                                                                                                                   | DEPTH FROM LND SURF                                                                       | SAMP DEPTH INTERVAL                                    | TYPE | #   | N  | REC (ft) | DESCRIPTION OF MATERIAL                                                        | CLASS | LABORATORY TESTS | DRILLING AND SAMPLING NOTES |
| 999.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --0                                                                                       | 2.5-4.5                                                | SB   | 31  | 7  | 1.0      | 10YR 4/2 dk gryish brn, poorly graded SAND w- clay                             | SP    |                  | TIP 2003 ppm                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                        |      | 31a |    | 1.0      | 5BG 6/1 grnish gray, lean CLAY w-tr sand,dense,moist                           | CL    |                  | TIP 2149 ppm                |
| 994.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --5.0                                                                                     | 5.0-7.0                                                | SB   | 32  | 10 | 1.8      | as above, mod plasticity, wet                                                  |       |                  | TIP 2076 ppm                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           | 7.5-9.5                                                | SB   | 33  | 10 | 2.0      | as above, wet                                                                  |       | lab sample       | TIP 2288 ppm                |
| 989.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --10                                                                                      | 10.0-12.0                                              | SB   | 34  | 9  | 2.0      | 10YR 4/1 dk gray, lean CLAY w-some silt, low plasticity, dense                 |       |                  | TIP 2516 ppm                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           | 12.5-14.5                                              | SB   | 35  | 8  | 0.5      | as above                                                                       |       |                  | TIP 159 ppm                 |
| 984.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --15                                                                                      |                                                        |      |     |    | 0.9      | at 13.0' 5YR 4/2 dk reddish gray poorly graded SAND, fn sand, loose, saturated | SP    |                  |                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                        |      |     |    |          | End of boring at 14.5 feet. Monitoring well MW- 3 constructed in borehole.     |       |                  |                             |
| 979.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --20                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 974.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --25                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 969.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --30                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 964.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --35                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 959.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --40                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 954.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --45                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 949.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --50                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| 944.1                                                                                                                                                                                                                                                                                                                                                                                                                                      | --55                                                                                      |                                                        |      |     |    |          |                                                                                |       |                  |                             |
| DRILLING METHOD: 4.25" ID Hollow Stem Augers<br>DRILLING CONTRACTOR: WTD Environmental Drilling                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                        |      |     |    |          | DEPTH TO WATER -<br>AT COMPLETION: 5.5'<br>LATER TIME/DEPTH: 1-12-91/3.69'     |       |                  |                             |

| FOTH & VAN DYKE                                                                                 |                 | Client: J. Stoessel<br>Project: Hedlund DX, Falun WI.<br>Prepared by: RJS<br>Checked by: |                                                                                                                       | Scope I.D.: 90S81<br>Page: 1<br>Date: 2/19/91<br>Date: |    |                                                                            |                                                                            |       |                  |                                               |
|-------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----|----------------------------------------------------------------------------|----------------------------------------------------------------------------|-------|------------------|-----------------------------------------------|
| REPORT - LOG OF TEST BORING                                                                     |                 |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| Start Date: 12/20/90<br>Completion Date: 12/20/90<br>Logged by: RJS                             |                 |                                                                                          | Test Boring No.: B-4<br>Location: NE corner prop. (tank basin)<br>Boring Depth: 14.5 feet<br>Surface Elevation: 998.7 |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| MSL ELEV                                                                                        | DEPTH FROM SURF | SAMP DEPTH INTERVAL                                                                      | TYPE                                                                                                                  | #                                                      | N  | REC (ft)                                                                   | DESCRIPTION OF MATERIAL                                                    | CLASS | LABORATORY TESTS | DRILLING AND SAMPLING NOTES                   |
| 998.7                                                                                           | --0             |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
|                                                                                                 |                 | 2.5-4.5                                                                                  | SB                                                                                                                    | 41                                                     | 10 | 0.9                                                                        | 10YR 3/1 v dk gray, sandy CLAY, fn-med sand, cohesive                      | SC    |                  | TIP 2020 ppm discolored, petro odor<br>TIP NA |
| 993.7                                                                                           | --5.0           | 5.0-7.0                                                                                  | SB                                                                                                                    | 42                                                     | 14 | 0.0                                                                        | no sample recovery                                                         |       |                  |                                               |
|                                                                                                 |                 | 7.5-9.5                                                                                  | SB                                                                                                                    | 43                                                     | 8  | 1.5                                                                        | 10YR 5/1 gray, lean CLAY w- silt, mod plasticity, dense, wet               | CL    | lab sample       | TIP 1499 ppm                                  |
| 988.7                                                                                           | --10            | 10.0-12.0                                                                                | SB                                                                                                                    | 44                                                     | 12 | 2.0                                                                        | as above                                                                   |       |                  | TIP 337 ppm                                   |
|                                                                                                 |                 | 12.5-14.5                                                                                | SB                                                                                                                    | 45                                                     | 18 | 1.0                                                                        | as above                                                                   |       |                  | TIP 55.7 ppm<br>TIP 46.6 ppm                  |
| 983.7                                                                                           | --15            |                                                                                          |                                                                                                                       | 45a                                                    |    | 1.0                                                                        | 5YR 5/2 reddish gray, poorly graded SAND w- silt, loose, saturated         | SP    |                  |                                               |
| 978.7                                                                                           | --20            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            | End of boring at 14.5 feet. Monitoring well MW -4 constructed in borehole. |       |                  |                                               |
| 973.7                                                                                           | --25            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 968.7                                                                                           | --30            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 963.7                                                                                           | --35            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 958.7                                                                                           | --40            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 953.7                                                                                           | --45            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 948.7                                                                                           | --50            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| 943.7                                                                                           | --55            |                                                                                          |                                                                                                                       |                                                        |    |                                                                            |                                                                            |       |                  |                                               |
| DRILLING METHOD: 4.25" ID Hollow Stem Augers<br>DRILLING CONTRACTOR: WTD Environmental Drilling |                 |                                                                                          |                                                                                                                       |                                                        |    | DEPTH TO WATER -<br>AT COMPLETION: 4.4'<br>LATER TIME/DEPTH: 1-12-90/3.54' |                                                                            |       |                  |                                               |

# Foth & Van Dyke

Client: Hedlund Scope I.D.: 90S81  
Project: Hedlund DX, Falun, WI Page: 1  
Prepared by: RJS Date: 12/30/90  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## MONITORING WELL CONSTRUCTION DIAGRAM

Driller: WTD Environmental Drilling

Well No.: MW-1

Drilling Method: Hollow Stem Auger

Date Installed: 12/19/90

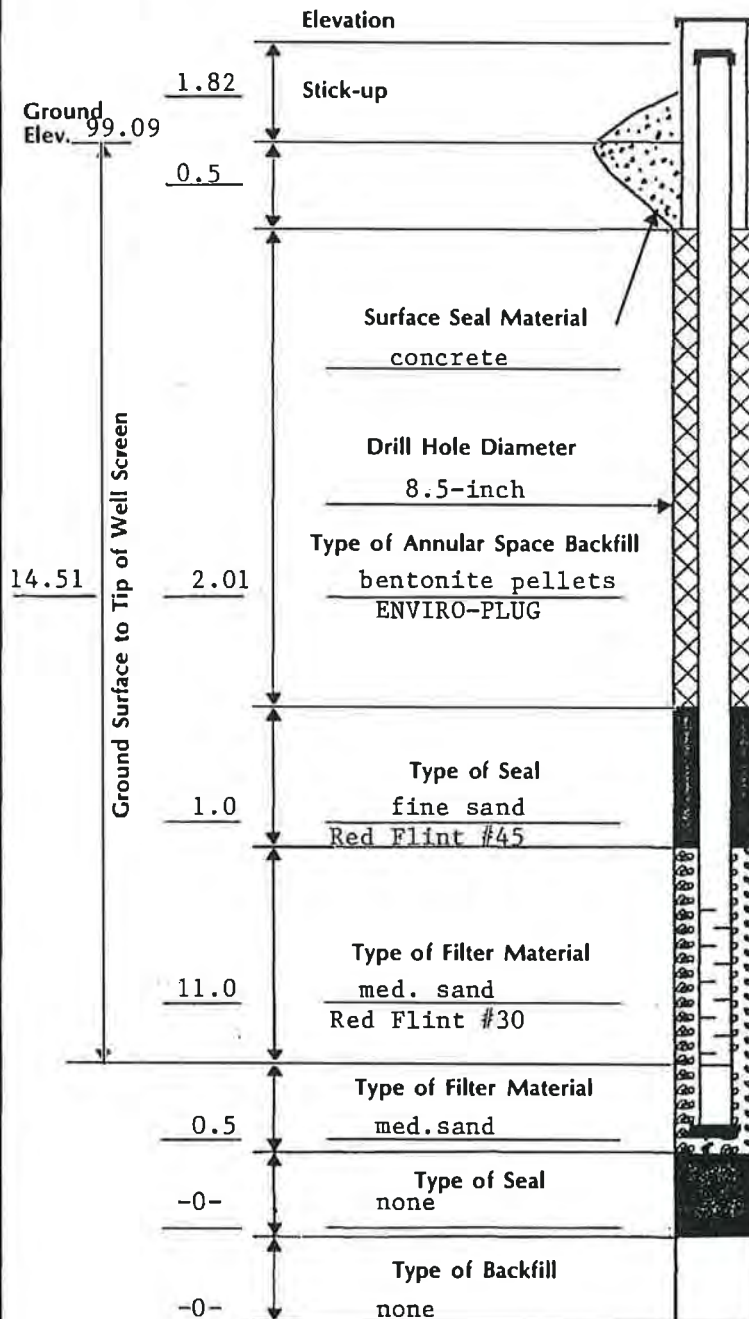
Coordinates: \_\_\_\_\_

### Protector Pipe:

Size: 4-inch diameter

Material: steel

Lock No.: master 2121



### Riser:

Diameter: 2-inch

Material: PVC

Sch.: 40

Type of Joints: flush threaded

Stenciled? no

### Screen:

Diameter: 2-inch

Material: PVC

Slot Size: 0.010-inch

Length: 10-feet

### Sump:

Length: 0.25-feet

Type of Cap: threaded point cap

Centralizer: Used ☐  
Not Used ☒

Depth to Water From Top of Riser at Completion: 6.77 feet

NOTE: Not to Scale



# Foth & Van Dyke

Client: Hedlund Scope I.D.: 90S81  
Project: Hedlund, DX, Falun, WI Page: 1  
Prepared by: RJS Date: 12/30/90  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## MONITORING WELL CONSTRUCTION DIAGRAM

Driller: WTD Environmental Drilling

Well No.: MW-3

Drilling Method: Hollow Stem Auger

Date Installed: 12/20/90

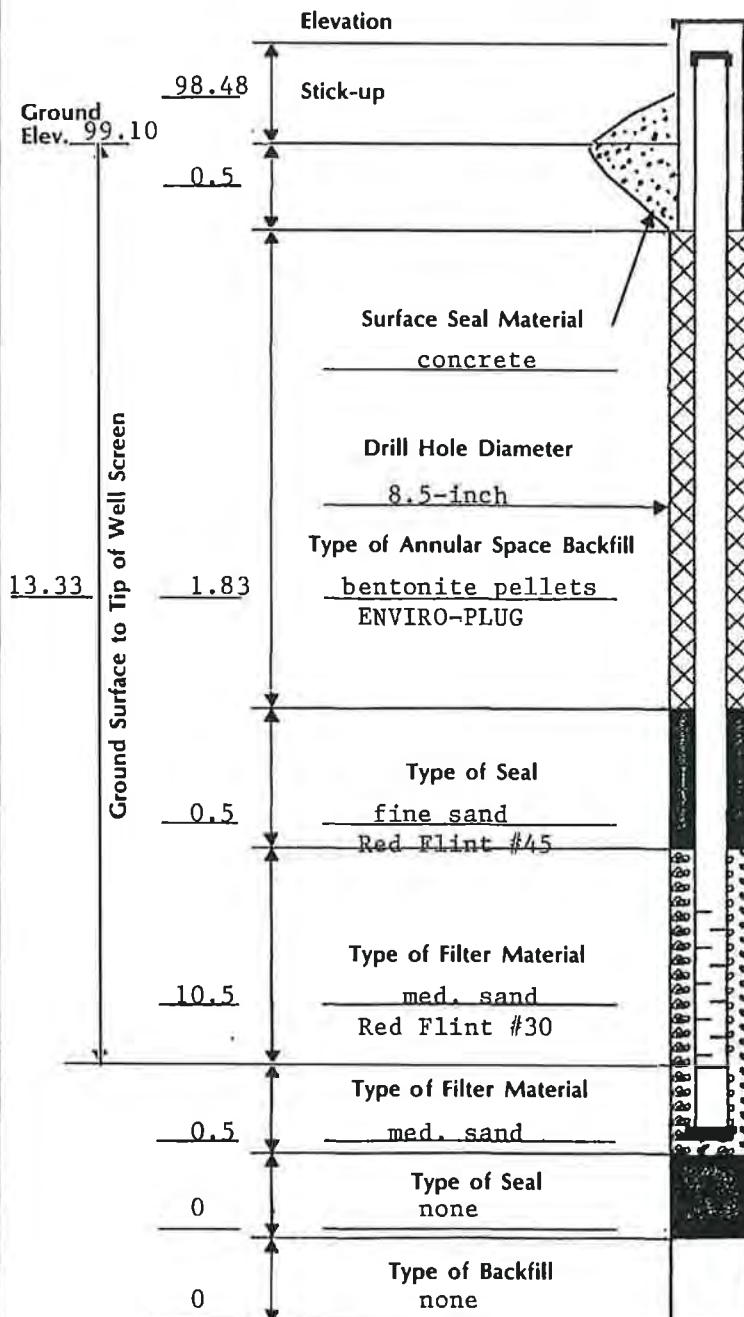
Coordinates: \_\_\_\_\_

### Protector Pipe:

Size: 8-inch, flush mount

Material: steel

Lock No.: Master 2121



### Riser:

Diameter: 2-inch

Material: PVC

Sch.: 40

Type of Joints: flush threaded

Stenciled? no

### Screen:

Diameter: 2-inch

Material: PVC

Slot Size: 0.010-inch

Length: 10-feet

### Sump:

Length: 0.25-feet

Type of Cap: threaded point cap

Centralizer: Used ☐  
Not Used ☒

Depth to Water From Top  
of Riser at Completion: 3.69 feet

NOTE: Not to Scale

# Foth & Van Dyke

Client: Hedlund Scope I.D.: 90S81  
Project: Hedlund DX, Falun, WI Page: 1  
Prepared by: RJS Date: 12/30/90  
Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## MONITORING WELL CONSTRUCTION DIAGRAM

Driller: WTD Environmental Well No.: MW-4  
Drilling Method: Hollow Stem Auger Date Installed: 12/20/90

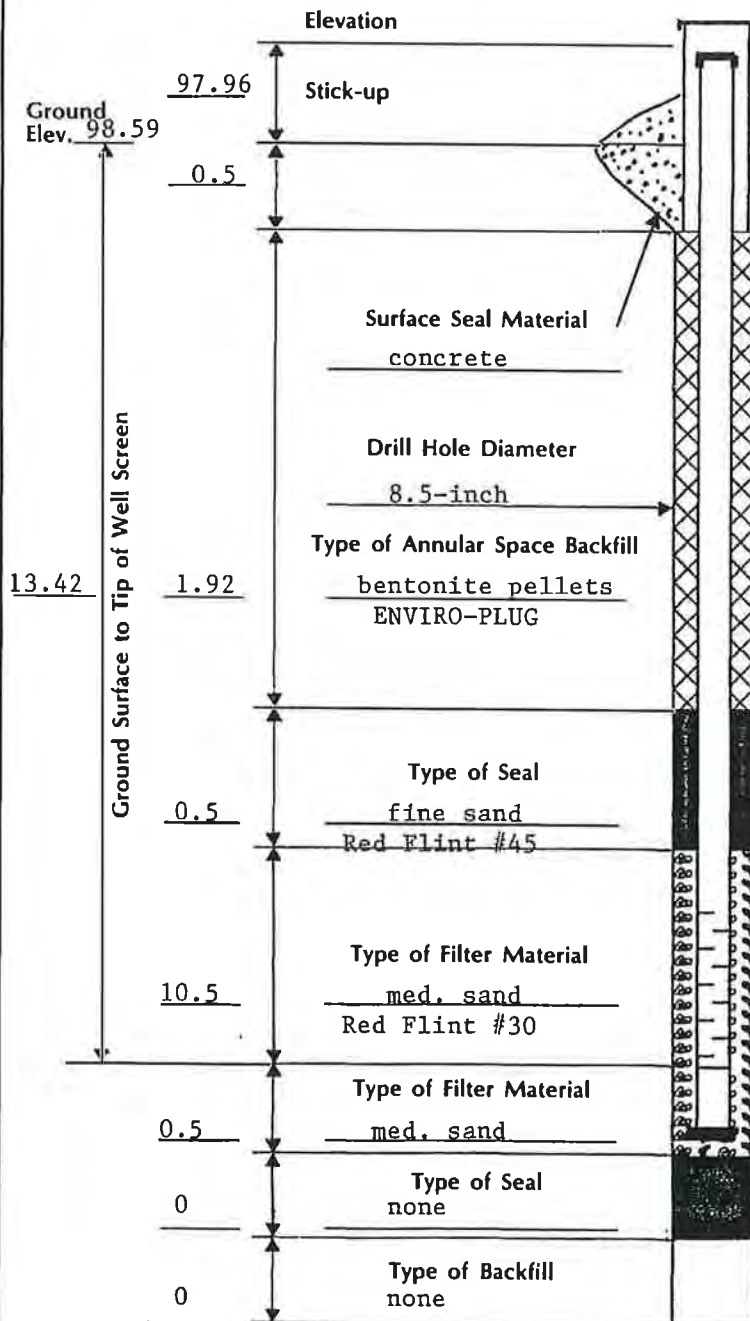
Coordinates: \_\_\_\_\_

### Protector Pipe:

Size: 8-inch, flush mount

Material: steel

Lock No.: Master 2121



### Riser:

Diameter: 2-inch

Material: PVC

Sch.: 40

Type of Joints: flush threaded

Stenciled? no

### Screen:

Diameter: 2-inch

Material: PVC

Slot Size: 0.010-inch

Length: 10-feet

### Sump:

Length: 0.25-feet

Type of Cap: threaded point cap

Centralizer: Used ☐  
Not Used ☒

Depth to Water From Top  
of Riser at Completion: 3.54 feet

NOTE: Not to Scale

# Foth & Van Dyke

Client: Stoessel Scope I.D.: 90S81  
Project: Hedlund DX Page: 1  
Prepared by: RJS Date: 12/20/90  
Checked by: if Date: 5/9/91

## MONITORING WELL DEVELOPMENT

Well Number: MW-1 Depth to Water: \_\_\_\_\_ Time of Measurement: \_\_\_\_\_  
Well Diameter: 2 inch Initial: 7.75 \_\_\_\_\_  
Total Depth of Well: 15.60 Final: Dry \_\_\_\_\_

### Description of Development Method:

Surged and purged with 1.66 inch x 5 feet hand bailer.

Well was bailed dry and allowed to recharge.

This was done four consecutive times.

Volume of Water Removed From Well: ~ 25 gallons

Clarity of Water in Well Before Development: cloudy - muddy

Clarity of Water in Well After Development: cloudy

Presence of Sediment at the Bottom of the Well: no

Volume of Water Added to Well: none

Source of Water Added to Well: none

Time Spent for Development: \_\_\_\_\_

### Stabilization Readings:

| Gal. Removed | Depth to Water | Time  | Field Temperature | Spec. Cond. | pH         |
|--------------|----------------|-------|-------------------|-------------|------------|
| <u>25</u>    | <u>15.3</u>    | _____ | <u>39.2°C</u>     | <u>850</u>  | <u>6.1</u> |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |
| _____        | _____          | _____ | _____             | _____       | _____      |

Scope I.D.: 90S81

Page: 1

Date: 12/20/90

Date: 5/9/91

## MONITORING WELL DEVELOPMENT

Well Number: MW-3

**Depth to Water:**

**Time of Measurement:**

Well Diameter: 2 inch

Initial: 3.40

**Total Depth of Well:** 12.80

Final: dry

### Description of Development Method:

Surged and purged with 1.66 inch x 5 feet hand bailer.

Well was bailed dry and allowed to recharge.

This was done four consecutive times.

**Volume of Water Removed From Well:** 25 gallons

Clarity of Water in Well Before Development: cloudy - muddy

Clarity of Water in Well After Development: cloudy

Presence of Sediment at the Bottom of the Well: no

Volume of Water Added to Well: \_\_\_\_\_ none

Source of Water Added to Well: \_\_\_\_\_ none

**Time Spent for Development:**

### Stabilization Readings:

[illegible]



\_Scope I.D.: 90S81

Page: 1

**Date:** 12/20/90

Date: 5/9/91

## MONITORING WELL DEVELOPMENT

Well Number: MW-4

**Depth to Water:**

**Time of Measurement:**

Well Diameter: 2 inch

Initial: 3.54

**Total Depth of Well:** 14.05

Final: \_\_\_\_\_ Dry

### Description of Development Method:

Surged and purged with 1.66 inch x 5 feet hand bailer.

Well was bailed dry and allowed to recharge.

This was done four consecutive times.

Volume of Water Removed From Well: ~ 20 gallons

Clarity of Water in Well Before Development: cloudy - muddy

Clarity of Water in Well After Development: cloudy

Presence of Sediment at the Bottom of the Well: no

Volume of Water Added to Well: \_\_\_\_\_ none

**Source of Water Added to Well:** \_\_\_\_\_ none

**Time Spent for Development:**

### Stabilization Readings:

**Gal. Removed**

### Depth to Water

Time

Field  
Temperature

Spec. Cond.

pH

20

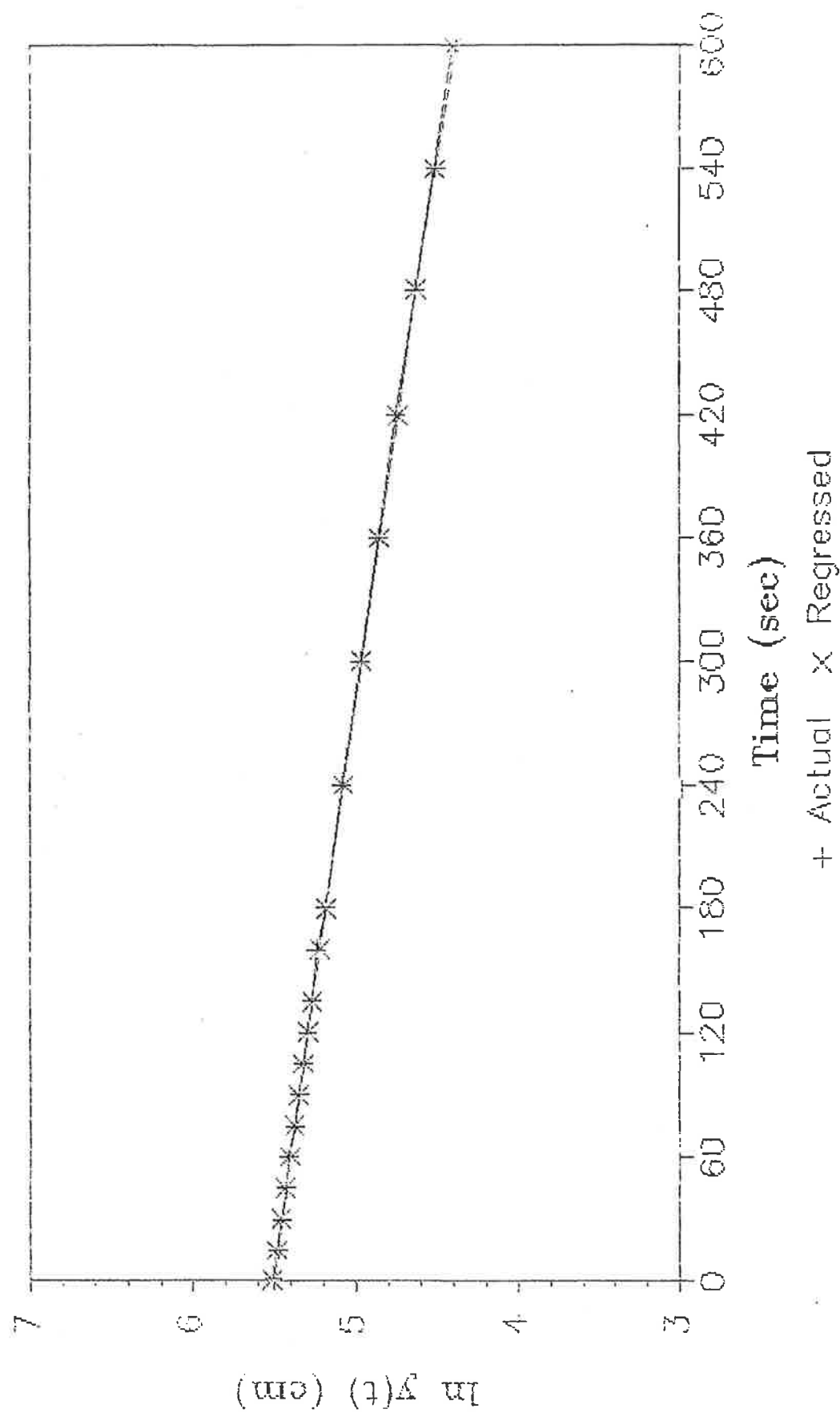
1

42°C

1154

6.2

# HEDLUND DX Aquifer Response Test MW-1



HEDLUND DX  
 Aquifer Response Tests - Bouwer & Rice Method  
 MW-1

$$K = \frac{rc^2 \ln(Re/rw) \ln \frac{[Y(0)]}{[Y(t)]}}{2Lt}$$

rc = casing radius = 2.54 cm

rw = borehole radius = 10.80 cm

L = screen length = 304.80 cm

D = aquifer thickness = 6,096.00 cm

H = well penetration = 291.39 cm

t = time

y(t) = drawdown @ time t

K = hydraulic conductivity = 2.3E-04 cm/s

DATA

| <u>Time (sec)</u> | <u>Drawdown y(t) (cm)</u> |
|-------------------|---------------------------|
| 1.00              | 245.67                    |
| 15.00             | 239.27                    |
| 30.00             | 233.17                    |
| 45.00             | 227.08                    |
| 60.00             | 224.03                    |
| 75.00             | 215.49                    |
| 90.00             | 209.70                    |
| 105.00            | 204.22                    |
| 120.00            | 199.34                    |
| 135.00            | 193.85                    |
| 160.00            | 188.06                    |

HEDLUND DX  
Aquifer Response Tests - Bouwer & Rice Method  
MW-1

|        |        |
|--------|--------|
| 180.00 | 178.92 |
| 240.00 | 160.93 |
| 300.00 | 143.87 |
| 360.00 | 128.93 |
| 420.00 | 115.82 |
| 480.00 | 103.02 |
| 540.00 | 91.14  |
| 600.00 | 80.16  |



# Foth & Van Dyke

$2.4 \times 10^{-4}$  cm/s

Client: HEDLUND DX, FALIN Scope I.D.: 90501-1  
 Project: SLUG TEST Page: 1  
 Prepared by: MWD Date: 1/12/90  
 Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## AQUIFER RESPONSE TEST FIELD DATA SHEET

Site Name: HEDLUND DX, FALIN Well: MW-1  
 Personnel: MWB

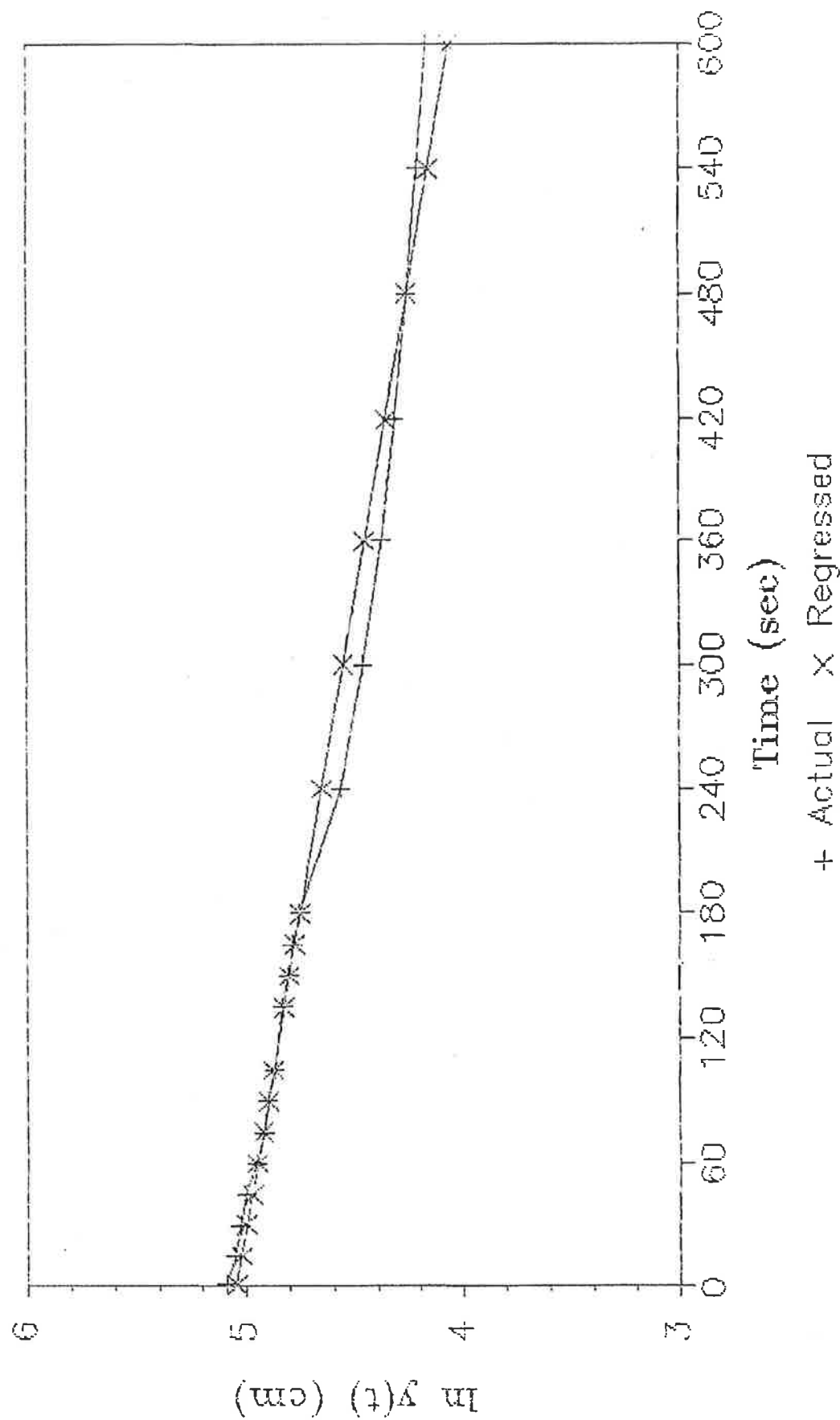
Type of Test (Check One): ☒ Baildown ☐ Slug Displacement ☐ Bail Displacement  
 Depth to Water: 6.77 ft  
 Total Well Depth: 16.33 ft  
 Estimated Volume Removed or Displaced: 1.6 gallons  
 Measurement Device (Check One): ☐ Transducer ☒ Water Level Indicator  
 Initial Transducer Reading (If Used): \_\_\_\_\_ ft

### Readings

| Time   | Reading | Time   | Reading |
|--------|---------|--------|---------|
| 0      | 14.83   | 4 240  | 12.65   |
| 15     | 62      | 5 300  | 11.49   |
| 30     | 42      | 6 360  | 11.00   |
| 45     | 22      | 7 420  | 10.57   |
| 1 0 60 | 12      | 8 480  | 10.15   |
| 15 75  | 84      | 9 540  | 9.76    |
| 30 90  | 65      | 10 600 | 9.40    |
| 45 105 | 47      |        |         |
| 1 120  | 31      |        |         |
| 15 135 | 13      |        |         |
| 45 160 | 13 74   |        |         |
| 1 180  | 64      |        |         |
|        |         |        |         |
|        |         |        |         |

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# HEDLUND DX Aquifer Response Test MW-3



HEDLUND DX  
 Aquifer Response Tests - Bouwer & Rice Method  
 MW-3

$$K = \frac{rc^2 \ln(Re/rw) \ln \frac{[y(0)]}{[y(t)]}}{2Lt}$$

rc = casing radius = 2.54 cm

rw = borehole radius = 10.80 cm

L = screen length = 304.80 cm

D = aquifer thickness = 6,096.00 cm

H = well penetration = 293.83 cm

t = time

y(t) = drawdown @ time t

K = hydraulic conductivity = 2.1E-04 cm/s

DATA

| <u>Time (sec)</u> | <u>Drawdown y(t) (cm)</u> |
|-------------------|---------------------------|
| 1.00              | 162.76                    |
| 15.00             | 155.75                    |
| 30.00             | 152.10                    |
| 45.00             | 148.13                    |
| 60.00             | 141.12                    |
| 75.00             | 136.86                    |
| 90.00             | 134.42                    |
| 105.00            | 130.15                    |
| 135.00            | 125.27                    |
| 150.00            | 121.92                    |
| 165.00            | 119.48                    |

HEDLUND DX  
Aquifer Response Tests - Bouwer & Rice Method  
MW-3

|        |        |
|--------|--------|
| 180.00 | 115.82 |
| 240.00 | 96.01  |
| 300.00 | 86.87  |
| 360.00 | 79.55  |
| 420.00 | 74.68  |
| 480.00 | 70.71  |
| 540.00 | 67.36  |
| 600.00 | 64.62  |



Foth & Van Dyke

2.1 x 10<sup>-4</sup>

Client: HEDLUND DX, FALIN

Scope I.D.: 90581-1

Project: SLUG TEST

Page: 2

Prepared by: MWD

Date: 1/12/98

Checked by: \_\_\_\_\_

Date: \_\_\_\_\_

## AQUIFER RESPONSE TEST FIELD DATA SHEET

Site Name: HEDLUND DX, FALIN

Well: MW-3

Personnel: MWD

Type of Test (Check One): ☒ Baildown ☐ Slug Displacement ☐ Bail Displacement

Depth to Water: 3.69 ft

Total Well Depth: 13.33 ft

Estimated Volume Removed or Displaced: 3.3 gallons

Measurement Device (Check One): ☐ Transducer ☒ Water Level Indicator

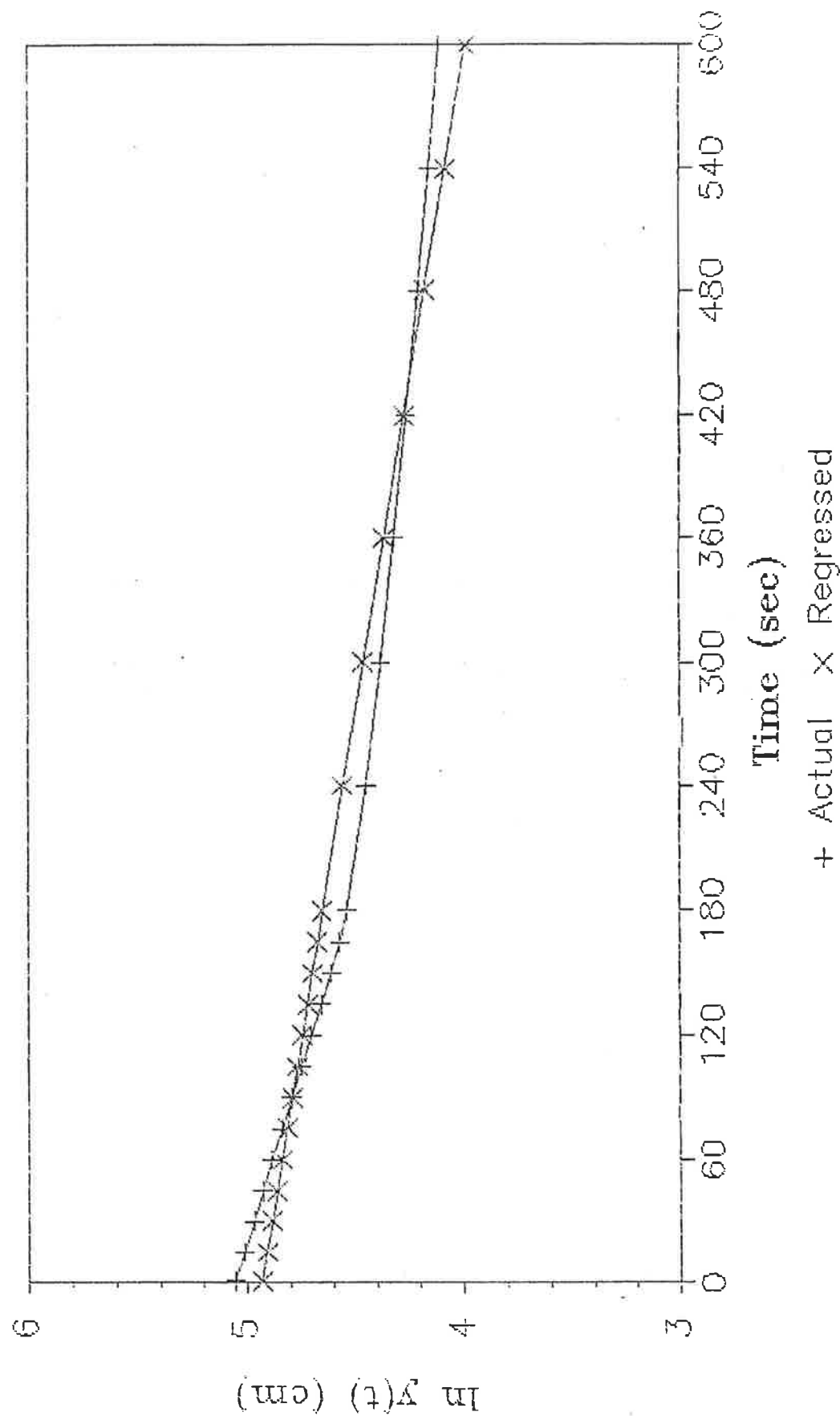
Initial Transducer Reading (If Used): \_\_\_\_\_ ft

### Readings

| Time             | Reading | Time   | Reading |
|------------------|---------|--------|---------|
| 81               | 9.03    | 4 240  | 6.84    |
| 15               | 8.84    | 5 300  | 6.54    |
| 30               | 8.68    | 6 360  | 6.30    |
| 45               | 8.55    | 7 420  | 6.14    |
| 1 60             | 8.32    | 8 480  | 6.01    |
| 15 75            | 8.18    | 9 540  | 5.91    |
| 30 90            | 8.10    | 10 600 | 5.81    |
| 45 105           | 7.96    |        |         |
| <del>2 120</del> |         |        |         |
| 15 135           | 7.80    |        |         |
| 30 150           | 7.69    |        |         |
| 45 165           | 7.61    |        |         |
| 3 180            | 7.49    |        |         |
|                  |         |        |         |

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# HEDLUND DX Aquifer Response Test MW-4



HEDLUND DX  
 Aquifer Response Tests - Bouwer & Rice Method  
 MW-4

$$K = \frac{rc^2 \ln(Re/rw) \ln \frac{[Y(0)]}{[Y(t)]}}{2Lt}$$

rc = casing radius = 2.54 cm  
 rw = borehole radius = 10.80 cm  
 L = screen length = 304.80 cm  
 D = aquifer thickness = 6,096.00 cm  
 H = well penetration = 301.14 cm  
 t = time  
 y(t) = drawdown @ time t

K = hydraulic conductivity = 2.0E-04 cm/s

DATA

| <u>Time (sec)</u> | <u>Drawdown y(t) (cm)</u> |
|-------------------|---------------------------|
| 1.00              | 156.97                    |
| 15.00             | 150.27                    |
| 30.00             | 143.87                    |
| 45.00             | 138.38                    |
| 60.00             | 132.59                    |
| 75.00             | 126.49                    |
| 90.00             | 121.01                    |
| 105.00            | 115.52                    |
| 120.00            | 110.34                    |
| 135.00            | 105.16                    |
| 150.00            | 100.28                    |

HEDLUND DX  
Aquifer Response Tests - Bouwer & Rice Method  
MW-4

|        |       |
|--------|-------|
| 165.00 | 96.32 |
| 180.00 | 93.27 |
| 240.00 | 85.34 |
| 300.00 | 79.86 |
| 360.00 | 75.29 |
| 420.00 | 71.02 |
| 480.00 | 67.06 |
| 540.00 | 63.70 |
| 600.00 | 60.96 |

# Foth & Van Dyke

2.0 x 10<sup>-4</sup>

Client: HEDLUND DX, FALIN Scope I.D.: 90581-1  
 Project: SLUG TEST Page: 3  
 Prepared by: MWD Date: 1/12/90  
 Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

## AQUIFER RESPONSE TEST FIELD DATA SHEET

Site Name: HEDLUND DX, FALIN Well: MW-4  
 Personnel: MWD

Type of Test (Check One): ☒ Baildown ☐ Slug Displacement ☐ Bail Displacement

Depth to Water: 3.54 ft

Total Well Depth: 13.42 ft

Estimated Volume Removed or Displaced: \_\_\_\_\_ gallons

Measurement Device (Check One): ☐ Transducer ☒ Water Level Indicator

Initial Transducer Reading (If Used): \_\_\_\_\_ ft

### Readings

| Time   | Reading               | Time   | Reading |
|--------|-----------------------|--------|---------|
| 0      | 8.69 <del>+0.87</del> | 4 240  | 6.34    |
| 15     | 8.47 <del>7.19</del>  | 5 300  | 6.16    |
| 30     | 8.26 <del>7.61</del>  | 6 360  | 6.01    |
| 45     | 8.08                  | 7 420  | 5.87    |
| 1 60   | 7.89                  | 8 480  | 5.74    |
| 15 75  | 7.69                  | 9 540  | 5.63    |
| 30 90  | 7.51                  | 10 600 | 5.54    |
| 45 105 | 7.33                  |        |         |
| 2 120  | 7.16                  |        |         |
| 15 135 | 6.99                  |        |         |
| 30 150 | 6.83                  |        |         |
| 45 165 | 6.70                  |        |         |
| 3 180  | 6.60                  |        |         |

Comments: STRONG ODOR



## **APPENDIX B**

### **POTABLE WELL CONSTRUCTION LOGS**



# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER **CF832**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property **JIM KYES**  
Owner Telephone **715-689-2175**  
Number

Mailing **29577 FINK RD**  
Address

City **SIREN**

State **WI**  
Zip Code **54872**

County of Well Location  
**Burnett**

County Well Permit No.  
**W**

Well Completion Date  
**07/10/1990**

Well Constructor (Business Name)  
**BEECROFT GARY**

License #  
**137**

Facility ID Number (Public Wells)

Address  
**RT 1 BOX 1073**

Public Well Plan Approval #  
W--

City **SIREN** State **WI** Zip Code **54872**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity  
**1.2** gpm/ft

3. Well serves **1** # of homes and/or  
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity  
Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No

Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No

Distance in Feet from Well to Nearest:

1. Landfill

10 2. Building Overhang

3. Septic ☐ Holding Tank ☐

4. Sewage Absorption Unit

5. Nonconforming Pit

6. Buried Home Heating Oil Tank

7. Buried Petroleum Tank

8. Shoreline ☐ Swimming Pool ☐

9. Downspout/Yard Hydrant

70 10. Privy

11. Foundation Drain to Clearwater

12. Foundation Drain to Sewer

13. Building Drain

☐ Cast Iron or Plastic ☐ Other

14. Building Sewer ☐ Gravity ☐ Pressure

☐ Cast Iron or Plastic ☐ Other

15. Collector or Street Sewer:

☐ Sanitary units in. diam.

☐ Storm ☐ < 6 ☐ > 6

16. Clearwater Sump

17. Wastewater Sump

18. Paved Animal Barn Pen

19. Animal Yard or Shelter

20. Silo

21. Barn Gutter

22. Manure Pipe ☐ Gravity ☐ Pressure

☐ Cast Iron or Plastic ☐ Other

23. Other Manure Storage

24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

| Dia (in.) | From (ft.) | To (ft.) | Upper Enlarged Drillhole                                                     | Lower Open Bedrock       |
|-----------|------------|----------|------------------------------------------------------------------------------|--------------------------|
| 8         | 0          | 20       | <input type="checkbox"/> ---1. Rotary - Mud Circulation-----                 | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> ---2. Rotary - Air-----                             | <input type="checkbox"/> |
| 4         | 20         | 64.83    | <input type="checkbox"/> ---3. Rotary - Air and Foam-----                    | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> ---4. Drill-Through Casing Hammer                   | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> ---5. Reverse Rotary                                | <input type="checkbox"/> |
|           |            |          | <input checked="" type="checkbox"/> ---6. Cable-tool Bit 8 in. dia-----      | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 7. Dual Rotary                                      | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 8. Temp. Outer Casing 8 in. dia.                    | depth (ft)               |
|           |            |          | Removed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                          |
|           |            |          | If no, why not?                                                              |                          |

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)

**4 NEW BLACK STEEL 10.79# PER FT. ASTM A53 .237 WALL THICKNESS SAWHILL PIPE WELDED JOINTS**

**0 60.8**

Dia. (in.) Screen type, material & slot size From (ft.) To (ft.)

**STEEL SCREEN STAINLESS 18 SLOT**

**60.33 64.83**

7. Grout or Other Sealing Material. Method

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

**DRILL CUTTINGS**

**0 20**

8. Geology From (ft.) To (ft.)  
Type, Caving/Noncaving, Color, Hardness, etc

|      |               |    |      |
|------|---------------|----|------|
| --CG | CLAY @ ROCKS  | 0  | 13   |
| --G- | GRAVEL        | 13 | 47   |
| --P- | HARD PAN      | 47 | 55   |
| --Y- | SAND @ GRAVEL | 55 | 64.8 |

9. Static Water Level  
ft. above ground surface  
**38** ft. below ground surface

10. Pump Test  
Pumping Level **55** ft. below surface  
Pumping at **20** GPM for **1** hours

11. Well is: ☒ Above Grade  
**8** in. ☐ Below Grade  
Developed? ☒ Yes ☐ No  
Disinfected? ☒ Yes ☐ No  
Capped? ☒ Yes ☐ No

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
☐ Yes ☐ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller  
**GB** Date signed **08/08/1990**

Signature of Drill Rig Operator (Mandatory unless same as above) Date signed  
**GB** **08/08/1990**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

*Geologic Log No*

*SID Number*

*Common Well Name*

*Well Notification #*

*Batch Seq #* 85

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER CR338

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

|                                           |                                    |                                           |                       |
|-------------------------------------------|------------------------------------|-------------------------------------------|-----------------------|
| Property Owner <b>OTMER ANDERSON</b>      |                                    | Telephone <b>715-689-2265</b><br>Number   |                       |
| Mailing Address <b>10561 STATE HWY 70</b> |                                    |                                           |                       |
| City <b>SIREN</b>                         |                                    | State <b>WI</b>                           | Zip Code <b>54872</b> |
| County of Well Location<br><b>Burnett</b> | County Well Permit No.<br><b>W</b> | Well Completion Date<br><b>09/13/1990</b> |                       |

|                                                                                                                                                  |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1. Well Location<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village<br>of <b>DANIELS</b> | Fire # (if available) |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|

Grid or Street Address or Road Name and Number

Subdivision Name Lot # Block #

|                                                           |                         |                                        |
|-----------------------------------------------------------|-------------------------|----------------------------------------|
| Well Constructor (Business Name)<br><b>BEECROFT ROGER</b> | License #<br><b>182</b> | Facility ID Number (Public Wells)      |
| Address<br><b>RT 1 BOX 91BB</b>                           |                         | Public Well Plan Approval #<br>W--     |
| City<br><b>SHELL LAKE</b>                                 | State<br><b>WI</b>      | Zip Code<br><b>54871</b>               |
| Date of Approval (mm/dd/yyyy)                             |                         |                                        |
| Hicap Permanent well #                                    | Common Well #           | Specific Capacity<br><b>1.7 gpm/ft</b> |

|                   |      |                  |                                                                  |
|-------------------|------|------------------|------------------------------------------------------------------|
| Gov't Lot #       | or   | NW 1/4 of        | NW 1/4 of                                                        |
| Section <b>19</b> | T    | <b>38 N; R17</b> | <input type="checkbox"/> E <input checked="" type="checkbox"/> W |
| Latitude Deg.     | Min. | Longitude Deg.   | Min.                                                             |

|                                                                                                         |                                  |
|---------------------------------------------------------------------------------------------------------|----------------------------------|
| 2. Well Type<br><input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction | Lat/Long Method<br><b>GPS008</b> |
|---------------------------------------------------------------------------------------------------------|----------------------------------|

of previous unique well # constructed in  
Reason for replaced or Reconstructed Well?  
**CONTAMINATED POINT**

|                                                                                                      |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Well serves <b>1</b> # of homes and or<br>(e.g. barn, restaurant, church, school, industry, etc.) | High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No

Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:  
Well located in floodplain? ☐ Yes ☒ No

|                                                                              |                                                                                       |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Distance in Feet from Well to Nearest:                                       | 9. Downspout/Yard Hydrant                                                             |
| 1. Landfill                                                                  | 10. Privy                                                                             |
| 10 2. Building Overhang                                                      | 11. Foundation Drain to Clearwater                                                    |
| 90 3. Septic <input type="checkbox"/> Holding Tank <input type="checkbox"/>  | 12. Foundation Drain to Sewer                                                         |
| 100 4. Sewage Absorption Unit                                                | 13. Building Drain                                                                    |
| 5. Nonconforming Pit                                                         | <input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other          |
| 6. Buried Home Heating Oil Tank                                              | 14. Building Sewer <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure |
| 7. Buried Petroleum Tank                                                     | <input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other          |
|                                                                              | 15. Collector or Street Sewer:                                                        |
|                                                                              | <input type="checkbox"/> Sanitary units in diam.                                      |
|                                                                              | <input type="checkbox"/> Storm =< 6 <input type="checkbox"/> > 6                      |
| 8. Shoreline <input type="checkbox"/> Swimming Pool <input type="checkbox"/> | 16. Clearwater Sump                                                                   |

|                                                                                    |
|------------------------------------------------------------------------------------|
| 17. Wastewater Sump                                                                |
| 18. Paved Animal Barn Pen                                                          |
| 19. Animal Yard or Shelter                                                         |
| 20. Silo                                                                           |
| 21. Barn Gutter                                                                    |
| 22. Manure Pipe <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure |
| <input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other       |
| 23. Other Manure Storage                                                           |
| 24. Ditch                                                                          |

25. Other NR 812 Waste Storage

| 5. Drillhole Dimensions and Construction Method |            |          | Upper                                                                         | Lower                    |
|-------------------------------------------------|------------|----------|-------------------------------------------------------------------------------|--------------------------|
| Dia (in.)                                       | From (ft.) | To (ft.) | Enlarged Drillhole                                                            | Open Bedrock             |
| 10                                              | 0          | 8        | <input type="checkbox"/> --1. Rotary - Mud Circulation-----                   | <input type="checkbox"/> |
|                                                 |            |          | <input type="checkbox"/> --2. Rotary - Air-----                               | <input type="checkbox"/> |
| 6                                               | 8          | 89       | <input type="checkbox"/> --3. Rotary - Air and Foam-----                      | <input type="checkbox"/> |
|                                                 |            |          | <input type="checkbox"/> --4. Drill-Through Casing Hammer                     |                          |
|                                                 |            |          | <input type="checkbox"/> --5. Reverse Rotary                                  |                          |
|                                                 |            |          | <input checked="" type="checkbox"/> --6. Cable-tool Bit <b>10</b> in. dia---- | <input type="checkbox"/> |
|                                                 |            |          | <input type="checkbox"/> 7. Dual Rotary                                       | <input type="checkbox"/> |
|                                                 |            |          | <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft.)           |                          |
|                                                 |            |          | Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No             |                          |
|                                                 |            |          | If no, why not?                                                               |                          |

| 8. Geology                                   | From (ft.) | To (ft.) |
|----------------------------------------------|------------|----------|
| Type, Caving/Noncaving, Color, Hardness, etc |            |          |
| --C- CLAY                                    | 0          | 8        |
| --Y- SAND AND GRAVEL                         | 8          | 20       |
| --YV SOUPY SAND AND GRAVEL                   | 20         | 42       |
| --GC GRAVEL AND CLAY                         | 42         | 74       |
| --Y- SAND AND GRAVEL                         | 74         | 89       |

| 6. Casing, Liner, Screen | Material, Weight, Specification | From (ft.) | To (ft.) |
|--------------------------|---------------------------------|------------|----------|
|--------------------------|---------------------------------|------------|----------|

**6 NEW BLACK STEEL 19LB A53G LTV WELDED**

0

85.4

| Dia. (in.) | Screen type, material & slot size | 84 | 89 |
|------------|-----------------------------------|----|----|
|------------|-----------------------------------|----|----|

**STAINLESS STEEL**

| 7. Grout or Other Sealing Material. Method | From (ft.) | To (ft.) | # Sacks Cement |
|--------------------------------------------|------------|----------|----------------|
|--------------------------------------------|------------|----------|----------------|

Kind of Sealing Material

**DRILL CUTTINGS**

0

8

|                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Static Water Level<br>ft. above ground surface<br><b>1</b> ft. below ground surface                    | 11. Well is: <input checked="" type="checkbox"/> Above Grade<br><input type="checkbox"/> Below Grade                                                                                                                                                                                                                                                                       |
| 10. Pump Test<br>Pumping Level <b>25</b> ft. below surface<br>Pumping at <b>40</b> GPM for <b>1</b> hours | 12. Well is: <input checked="" type="checkbox"/> Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
☒ Yes ☐ No If no, explain:

|                                                                               |                                  |
|-------------------------------------------------------------------------------|----------------------------------|
| 13. Signature of the Well Constructor or Supervisory Driller<br><b>RB</b>     | Date signed<br><b>09/13/1990</b> |
| Signature of Drill Rig Operator (Mandatory unless same as above)<br><b>RB</b> | Date signed<br><b>09/13/1990</b> |

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

|                            |    |
|----------------------------|----|
| <i>Geologic Log No</i>     |    |
| <i>SID Number</i>          |    |
| <i>Common Well Name</i>    |    |
| <i>Well Notification #</i> |    |
| <i>Batch Seq #</i>         | 93 |



# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER DV534

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

|                                           |                                    |                                           |                       |
|-------------------------------------------|------------------------------------|-------------------------------------------|-----------------------|
| Property Owner <b>GEORGE BRIGGS JR</b>    |                                    | Telephone --<br>Number                    |                       |
| Mailing Address <b>23530 CO RD W</b>      |                                    |                                           |                       |
| City <b>GRANTSBURG</b>                    |                                    | State <b>WI</b>                           | Zip Code <b>54840</b> |
| County of Well Location<br><b>Burnett</b> | County Well Permit No.<br><b>W</b> | Well Completion Date<br><b>07/07/1991</b> |                       |

|                                                                                                                                                 |                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1. Well Location<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village<br>of <b>DANIEL</b> | Fire # (if available)<br><b>23530</b> |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|

|                                                                       |
|-----------------------------------------------------------------------|
| Grid or Street Address or Road Name and Number<br><b>23530 C RD W</b> |
|-----------------------------------------------------------------------|

|                  |       |         |
|------------------|-------|---------|
| Subdivision Name | Lot # | Block # |
|------------------|-------|---------|

|                                                                    |                         |                                    |
|--------------------------------------------------------------------|-------------------------|------------------------------------|
| Well Constructor (Business Name)<br><b>JENNEMANS HARDWARE HANK</b> | License #<br><b>704</b> | Facility ID Number (Public Wells)  |
| Address<br><b>PO BOX 9</b>                                         |                         | Public Well Plan Approval #<br>W-- |
| City<br><b>SIREN</b>                                               | State<br><b>WI</b>      | Zip Code<br><b>54872-0009</b>      |
| Date of Approval (mm/dd/yyyy)                                      |                         |                                    |
| Hicap Permanent well #                                             | Common Well #           | Specific Capacity<br>gpm/ft        |

|                   |      |                   |                                                                  |
|-------------------|------|-------------------|------------------------------------------------------------------|
| Gov't Lot #       | or   | NW 1/4 of         | NW 1/4 of                                                        |
| Section <b>19</b> | T    | <b>38 N; R 17</b> | <input type="checkbox"/> E <input checked="" type="checkbox"/> W |
| Latitude Deg.     | Min. | Longitude Deg.    | Min.                                                             |

|                                                                                                         |                                  |
|---------------------------------------------------------------------------------------------------------|----------------------------------|
| 2. Well Type<br><input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction | Lat/Long Method<br><b>GPS008</b> |
|---------------------------------------------------------------------------------------------------------|----------------------------------|

|                                                                    |                |
|--------------------------------------------------------------------|----------------|
| of previous unique well #                                          | constructed in |
| Reason for replaced or Reconstructed Well?<br><b>PLUGGED POINT</b> |                |

|                                                                                                      |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Well serves <b>1</b> # of homes and or<br>(e.g. barn, restaurant, church, school, industry, etc.) | High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                         |                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| 4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|

Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No

Distance in Feet from Well to Nearest:

1. Landfill

3 2. Building Overhang

35 3. Septic ☐ Holding Tank ☐

65 4. Sewage Absorption Unit

5. Nonconforming Pit

6. Buried Home Heating Oil Tank

7. Buried Petroleum Tank

9. Downspout/Yard Hydrant

10. Privy

11. Foundation Drain to Clearwater

12. Foundation Drain to Sewer

13. Building Drain

☐ Cast Iron or Plastic ☐ Other

15 14. Building Sewer ☒ Gravity ☐ Pressure

☒ Cast Iron or Plastic ☐ Other

15. Collector or Street Sewer:

☐ Sanitary units in. diam.

☐ Storm =< 6 ☐ > 6

16. Clearwater Sump

17. Wastewater Sump

18. Paved Animal Barn Pen

19. Animal Yard or Shelter

20. Silo

21. Barn Gutter

22. Manure Pipe ☐ Gravity ☐ Pressure

☐ Cast Iron or Plastic ☐ Other

23. Other Manure Storage

24. Ditch

25. Other NR 812 Waste Storage

| 5. Drillhole Dimensions and Construction Method |       | From  | To    | Upper                                                              | Lower                    |
|-------------------------------------------------|-------|-------|-------|--------------------------------------------------------------------|--------------------------|
| Dia (in.)                                       | (ft.) | (ft.) | (ft.) | Enlarged Drillhole                                                 | Open Bedrock             |
|                                                 |       |       |       | <input type="checkbox"/> ---1. Rotary - Mud Circulation-----       | <input type="checkbox"/> |
|                                                 |       |       |       | <input type="checkbox"/> ---2. Rotary - Air-----                   | <input type="checkbox"/> |
|                                                 |       |       |       | <input type="checkbox"/> ---3. Rotary - Air and Foam-----          | <input type="checkbox"/> |
|                                                 |       |       |       | <input type="checkbox"/> ---4. Drill-Through Casing Hammer         |                          |
|                                                 |       |       |       | <input type="checkbox"/> ---5. Reverse Rotary                      |                          |
|                                                 |       |       |       | <input type="checkbox"/> ---6. Cable-tool Bit in. dia-----         | <input type="checkbox"/> |
|                                                 |       |       |       | 7. Dual Rotary                                                     | <input type="checkbox"/> |
|                                                 |       |       |       | <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft) |                          |
|                                                 |       |       |       | Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No  |                          |
|                                                 |       |       |       | If no, why not?                                                    |                          |

| 8. Geology                                   | From (ft.) | To (ft.) |
|----------------------------------------------|------------|----------|
| Type, Caving/Noncaving, Color, Hardness, etc |            |          |

| 6. Casing, Liner, Screen | Material, Weight, Specification | From (ft.) | To (ft.) |
|--------------------------|---------------------------------|------------|----------|
| Dia (in.)                |                                 |            |          |

**2 STEEL PIPE ASTM A-53 TYPEF**

**0**

**46**

| Dia. (in.) | Screen type, material & slot size | From (ft.) | To (ft.)  |
|------------|-----------------------------------|------------|-----------|
| <b>2</b>   | <b>S.S. POINT</b>                 | <b>46</b>  | <b>49</b> |

| 7. Grout or Other Sealing Material. Method: | From (ft.) | To (ft.) | # Sacks Cement |
|---------------------------------------------|------------|----------|----------------|
| Kind of Sealing Material                    |            |          |                |

|                                                                                         |                                                                                                                    |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 9. Static Water Level<br>ft. above ground surface<br><b>12</b> ft. below ground surface | 11. Well is: <input checked="" type="checkbox"/> Above Grade<br><b>18</b> in. <input type="checkbox"/> Below Grade |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

|                                                                              |                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10. Pump Test<br>Pumping Level ft. below surface<br>Pumping at GPM for hours | Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                           |                                  |
|---------------------------------------------------------------------------|----------------------------------|
| 13. Signature of the Well Constructor or Supervisory Driller<br><b>CJ</b> | Date signed<br><b>07/25/1991</b> |
|---------------------------------------------------------------------------|----------------------------------|

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| Signature of Drill Rig Operator (Mandatory unless same as above) | Date signed |
|------------------------------------------------------------------|-------------|

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

*Geologic Log No*

*SID Number*

*Common Well Name*

*Well Notification #*

*Batch Seq #* 123

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER **KT179**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **ERICKSON, BRUCE** Telephone **715-463-5445**  
Number

Mailing Address **401 N PARK ST**

City **GRANTSBURG**

State **WI** Zip Code **54840**

County of Well Location **Burnett**

County Well Permit No. **W**

Well Completion Date **07/09/1996**

Well Constructor (Business Name) **GARY BEECROFT**

License # **137**

Facility ID Number (Public Wells)

Address **1318 350TH AVE**

Public Well Plan Approval #  
W--

City **SIREN** State **WI** Zip Code **54872-9604**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity **.6** gpm/ft

3. Well serves **1** # of homes and/or  
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No If yes, distance in feet from quarry:

Well located within 1,200 feet of a quarry? ☐ Yes ☒ No

Well located in floodplain? ☐ Yes ☒ No

Distance in Feet from Well to Nearest:

**>50**

1. Landfill
2. Building Overhang
3. Septic ☐ Holding Tank ☐
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
☐ Cast Iron or Plastic ☐ Other
14. Building Sewer ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
15. Collector or Street Sewer:  
☐ Sanitary units in. diam.  
☐ Storm ☐ = < 6 ☐ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
23. Other Manure Storage
24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

| Dia (in.) | From (ft.) | To (ft.) | Upper Enlarged Drillhole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lower Open Bedrock                                                                                                                                                                               |
|-----------|------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6         | 0          | 58.06    | <input type="checkbox"/> --1. Rotary - Mud Circulation-----<br><input type="checkbox"/> --2. Rotary - Air-----<br><input type="checkbox"/> --3. Rotary - Air and Foam-----<br><input type="checkbox"/> --4. Drill-Through Casing Hammer<br><input type="checkbox"/> --5. Reverse Rotary<br><input type="checkbox"/> --6. Cable-tool Bit in. dia-----<br><input type="checkbox"/> 7. Dual Rotary<br><input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft.)<br>Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If no, why not? | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)

**6 NEW BLACK STEEL 18 97 LB PER FT ASTM  
A53 280 WALL THICKNESS SAWHILL PIPE  
CO WELDED JOINTS**

**0 54**

Dia. (in.) Screen type, material & slot size **4 STAINLESS STEEL SCREEN 18 SLOT** **53.5 58**

7. Grout or Other Sealing Material Method

Method: **BENTONITE GRAVNUELS WHILE DRIV** From (ft.) **0** To (ft.) **0** # Sacks Cement

| 8. Geology Type, Caving/Noncaving, Color, Hardness, etc | From (ft.) | To (ft.)  |
|---------------------------------------------------------|------------|-----------|
| <b>--C-- CLAY</b>                                       | <b>0</b>   | <b>18</b> |
| <b>--CG-- GRAVELY CLAY</b>                              | <b>18</b>  | <b>49</b> |
| <b>--Y-- SAND @ GRAVEL</b>                              | <b>49</b>  | <b>58</b> |

9. Static Water Level ft. above ground surface **10** ft. below ground surface

10. Pump Test  
Pumping Level **44** ft. below surface  
Pumping at **20** GPM for **11** hours

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

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? ☐ Yes ☒ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **GB** Date signed **07/23/1996**

Signature of Drill Rig Operator (Mandatory unless same as above) **TB** Date signed **07/23/1996**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

*Geologic Log No*  
*SID Number*  
*Common Well Name*  
*Well Notification #*  
*Batch Seq #*      419

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER YH304

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **SULLENDER, DENNIS & DEBRA**

Telephone --  
Number

Mailing Address **23530 COUNTY RD W**

City **GRANTSBURG**

State **WI** Zip Code **54840**

County of Well Location  
**Burnett**

County Well Permit No.  
**W**

Well Completion Date  
**12/13/2012**

Well Constructor (Business Name)  
**BUTTERFIELD INC**

License #  
**7115**

Facility ID Number (Public Wells)

Address  
**14346 W ST RD 77**

Public Well Plan Approval #  
W--

City  
**HAYWARD**

State **WI** Zip Code **54843-9790**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity  
**2 gpm/ft**

1. Well Location

☒ Town ☐ City ☐ Village

Fire # (if available)  
**23530**

of **DANIELS**

Grid or Street Address or Road Name and Number  
**23530 COUNTY RD W**

Subdivision Name

Lot #

Block #

Gov't Lot #

or

NW 1/4 of

NW 1/4 of

Section **19**

T

**38 N; R 17**

☐ E

☒ W

Latitude Deg. **45**

Min. **46.176**

Longitude Deg. **92**

Min. **31.633**

2. Well Type

☐ New

Lat/Long Method

☒ Replacement

☐ Reconstruction

**GPS008**

of previous unique well # constructed in  
Reason for replaced or Reconstructed Well?

**REPLACED SANDPT**

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other:

3. Well serves **1** # of homes and/or  
(e.g. barn, restaurant, church, school, industry, etc.)

**HOME**

High capacity Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No  
Well located within 1,200 feet of a quarry? ☐ Yes ☒ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No  
Distance in Feet from Well to Nearest:

1. Landfill
- 25 2. Building Overhang
- 40 3. Septic ☐ Holding Tank ☒
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
☐ Cast Iron or Plastic ☐ Other
14. Building Sewer ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
15. Collector or Street Sewer:  
☐ Sanitary units in. diam.  
☐ Storm ☐ < 6 ☐ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
23. Other Manure Storage
24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

| Dia (in.) | From (ft.) | To (ft.) | Upper Enlarged Drillhole                                                     | Lower Open Bedrock       |
|-----------|------------|----------|------------------------------------------------------------------------------|--------------------------|
| 8.75      | 0          | 87       | <input checked="" type="checkbox"/> --1. Rotary - Mud Circulation-----       | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --2. Rotary - Air-----                              | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --3. Rotary - Air and Foam-----                     | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --4. Drill-Through Casing Hammer                    | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --5. Reverse Rotary                                 | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --6. Cable-tool Bit in. dia-----                    | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 7. Dual Rotary                                      | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft.)          |                          |
|           |            |          | Removed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                          |
|           |            |          | If no, why not?                                                              |                          |

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)

Dia (in.) **5 EAGLE PVC 1120SDR21 200PSI ASTM F480** 0 84

Dia (in.) Screen type, material & slot size 84 87

7. Grout or Other Sealing Material. Method From (ft.) To (ft.) # Sacks Cement

Kind of Sealing Material **TREMIE PIPE-PUMPED** 0 81 7

**HIGH SOLID BENTONITE GROUT**

8. Geology From (ft.) To (ft.)

| Type, Caving/Noncaving, Color, Hardness, etc | From (ft.) | To (ft.) |
|----------------------------------------------|------------|----------|
| --I-- Soil-Organic                           | 0          | 1        |
| G-C- Gray, Clay                              | 1          | 8        |
| --Y-- Sand & Gravel                          | 8          | 55       |
| --YC Sand & Gravel, Clayey                   | 55         | 70       |
| --AY- Coarse, Sand & Gravel                  | 70         | 87       |

9. Static Water Level

ft. above ground surface

**10** ft. below ground surface

10. Pump Test

Pumping Level **15** ft. below surface

Pumping at **10** GPM for **2** hours

11. Well is: ☒ Above Grade

☐ Below Grade

14 in. ☒ Yes ☐ No

Developed? ☒ Yes ☐ No

Disinfected? ☒ Yes ☐ No

Capped? ☒ Yes ☐ No

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? ☒ Yes ☐ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller Date signed  
**TAB**

Signature of Drill Rig Operator (Mandatory unless same as above) Date signed  
**JSM**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No



Well Codes and Identifiers

|                            |           |
|----------------------------|-----------|
| <i>Geologic Log No</i>     |           |
| <i>SID Number</i>          |           |
| <i>Common Well Name</i>    |           |
| <i>Well Notification #</i> | 46567560  |
| <i>Batch Seq #</i>         | 888888888 |

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER **TN241**

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **BISTRAM, DALE** Telephone **715-463-3333**  
Number

Mailing Address **23439 EMIL FINK RD**

City **SIREN**

State **WI** Zip Code **54872**

County of Well Location  
**Burnett**

County Well Permit No.  
**W**

Well Completion Date  
**10/17/2006**

Well Constructor (Business Name)  
**GARY C BEECROFT**

License #  
**137**

Facility ID Number (Public Wells)

Address  
**GARY BEECROFT WELL DRLG & WATER SY**

Public Well Plan Approval #  
W--

City **SIREN** State **WI** Zip Code **54872-9604**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity  
**5.6** gpm/ft

3. Well serves **1** # of homes and or  
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties?  
Well located within 1,200 feet of a quarry? ☐ Yes ☒ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No  
Distance in Feet from Well to Nearest:

1. Landfill
- 39 2. Building Overhang
- 63 3. Septic ☒ Holding Tank ☐
- 192 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
☐ Cast Iron or Plastic ☐ Other
14. Building Sewer ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
15. Collector or Street Sewer:  
☐ Sanitary units in, diam.  
☐ Storm ☐ =< 6 ☐ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
23. Other Manure Storage
24. Ditch

25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

| Dia (in.) | From (ft.) | To (ft.) | Upper Enlarged Drillhole                                               | Lower Open Bedrock       |
|-----------|------------|----------|------------------------------------------------------------------------|--------------------------|
| 8.75      | 0          | 59.17    | <input checked="" type="checkbox"/> --1. Rotary - Mud Circulation----- | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --2. Rotary - Air-----                        | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --3. Rotary - Air and Foam-----               | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> --4. Drill-Through Casing Hammer              |                          |
|           |            |          | <input type="checkbox"/> --5. Reverse Rotary                           |                          |
|           |            |          | <input type="checkbox"/> --6. Cable-tool Bit in, dia-----              | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 7. Dual Rotary                                | <input type="checkbox"/> |
|           |            |          | <input type="checkbox"/> 8. Temp. Outer Casing in, dia. depth (ft.)    |                          |
|           |            |          | Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No      |                          |
|           |            |          | If no, why not?                                                        |                          |

| 8.   | Geology Type, Caving/Noneaving, Color, Hardness, etc | From (ft.) | To (ft.) |
|------|------------------------------------------------------|------------|----------|
| --Z- | CLAY & GRAVEL                                        | 0          | 10       |
| --Y- | SAND & GRAVEL                                        | 10         | 19       |
| --P- | HARDPAN                                              | 19         | 49       |
| --G- | GRAVEL                                               | 49         | 59.2     |

6. Casing, Liner, Screen Material, Weight, Specification From (ft.) To (ft.)

**5 EAGLE SDR 17 PVC** 0 55.5

Dia. (in.) Screen type, material & slot size 54.83 59.17  
**4 SLOT STAINLESS 50 STEEL**

7. Grout or Other Sealing Material. Method

Method: **TREMIE** From (ft.) To (ft.) # Sacks Cement  
Kind of Sealing Material

**QUICK GROUT** 0

9. Static Water Level  
ft. above ground surface  
7 ft. below ground surface

10. Pump Test  
Pumping Level **25** ft. below surface  
Pumping at **100** GPM for **1** hours

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

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?  
☐ Yes ☐ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **GB** Date signed **03/05/2007**

Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

|                            |          |
|----------------------------|----------|
| <i>Geologic Log No</i>     |          |
| <i>SID Number</i>          |          |
| <i>Common Well Name</i>    |          |
| <i>Well Notification #</i> | 24184135 |
| <i>Batch Seq #</i>         | 1070     |

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER TD549

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

|                                           |                                    |                                           |                       |
|-------------------------------------------|------------------------------------|-------------------------------------------|-----------------------|
| Property Owner <b>BJORKLAND, LAURA</b>    |                                    | Telephone --<br>Number                    |                       |
| Mailing Address <b>10251 HWY 70</b>       |                                    |                                           |                       |
| City <b>SIREN</b>                         |                                    | State <b>WI</b>                           | Zip Code <b>54872</b> |
| County of Well Location<br><b>Burnett</b> | County Well Permit No.<br><b>W</b> | Well Completion Date<br><b>08/21/2006</b> |                       |

|                                                                                                                                                  |       |                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------|
| 1. Well Location<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> City <input type="checkbox"/> Village<br>of <b>DANIELS</b> |       | Fire # (if available)<br><b>10251</b> |
| Grid or Street Address or Road Name and Number<br><b>ST HWY 70</b>                                                                               |       |                                       |
| Subdivision Name                                                                                                                                 | Lot # | Block #                               |

|                                                                |                    |                                      |                                   |
|----------------------------------------------------------------|--------------------|--------------------------------------|-----------------------------------|
| Well Constructor (Business Name)<br><b>CHELL WELL DRILLING</b> |                    | License #<br><b>22</b>               | Facility ID Number (Public Wells) |
| Address<br><b>3505 115TH ST</b>                                |                    | Public Well Plan Approval #<br>W--   |                                   |
| City<br><b>FREDERIC</b>                                        | State<br><b>WI</b> | Zip Code<br><b>54837-9803</b>        | Date of Approval (mm/dd/yyyy)     |
| Hicap Permanent well #                                         | Common Well #      | Specific Capacity<br><b>2</b> gpm/ft |                                   |

|                                                                                                                                                   |      |                          |                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------|------------------------------------------------------------------|
| Gov't Lot #                                                                                                                                       | or   | NE 1/4 of                | NE 1/4 of                                                        |
| Section <b>19</b>                                                                                                                                 | T    | <b>38</b> N; R <b>17</b> | <input type="checkbox"/> E <input checked="" type="checkbox"/> W |
| Latitude Deg.                                                                                                                                     | Min. | Longitude Deg.           | Min.                                                             |
| 2. Well Type<br><input checked="" type="checkbox"/> Replacement <input type="checkbox"/> Reconstruction                                           |      | Lat/Long Method          |                                                                  |
| of previous unique well # constructed in<br>Reason for replaced or Reconstructed Well?<br><b>POINT DRY</b>                                        |      |                          |                                                                  |
| <input checked="" type="checkbox"/> Drilled <input type="checkbox"/> Driven Point <input type="checkbox"/> Jetted <input type="checkbox"/> Other: |      |                          |                                                                  |

|                                                                                                      |                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3. Well serves <b>1</b> # of homes and or<br>(e.g. barn, restaurant, church, school, industry, etc.) | High capacity Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                             |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                                                                            |
| Well located within 1,200 feet of a quarry? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, distance in feet from quarry:                                                                  |                                                                                            |
| Well located in floodplain? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                             |                                                                                            |
| Distance in Feet from Well to Nearest:                                                                                                                                                                      |                                                                                            |
| 1. Landfill                                                                                                                                                                                                 | 9. Downspout/Yard Hydrant                                                                  |
| 25 2. Building Overhang                                                                                                                                                                                     | 10. Privy                                                                                  |
| 50 3. Septic <input checked="" type="checkbox"/> Holding Tank <input type="checkbox"/>                                                                                                                      | 11. Foundation Drain to Clearwater                                                         |
| 60 4. Sewage Absorption Unit                                                                                                                                                                                | 12. Foundation Drain to Sewer                                                              |
| 5. Nonconforming Pit                                                                                                                                                                                        | 13. Building Drain                                                                         |
| 6. Buried Home Heating Oil Tank                                                                                                                                                                             | <input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other               |
| 7. Buried Petroleum Tank                                                                                                                                                                                    | 14. Building Sewer <input type="checkbox"/> Gravity <input type="checkbox"/> Pressure      |
|                                                                                                                                                                                                             | <input type="checkbox"/> Cast Iron or Plastic <input type="checkbox"/> Other               |
|                                                                                                                                                                                                             | 15. Collector or Street Sewer:                                                             |
|                                                                                                                                                                                                             | <input type="checkbox"/> Sanitary units in. diam.                                          |
|                                                                                                                                                                                                             | <input type="checkbox"/> Storm <input type="checkbox"/> = < 6 <input type="checkbox"/> > 6 |
| 8. Shoreline <input type="checkbox"/> Swimming Pool <input type="checkbox"/>                                                                                                                                | 16. Clearwater Sump                                                                        |

- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe ☐ Gravity ☐ Pressure
- ☐ Cast Iron or Plastic ☐ Other
- 23. Other Manure Storage
- 24. Ditch

| 5. Drillhole Dimensions and Construction Method                   |            |          | Lower Open Bedrock                                           |                          |
|-------------------------------------------------------------------|------------|----------|--------------------------------------------------------------|--------------------------|
| Dia (in.)                                                         | From (ft.) | To (ft.) | Enlarged Drillhole                                           |                          |
| 6                                                                 | 0          | 60       | <input type="checkbox"/> ---1. Rotary - Mud Circulation----- | <input type="checkbox"/> |
|                                                                   |            |          | <input checked="" type="checkbox"/> ---2. Rotary - Air-----  | <input type="checkbox"/> |
|                                                                   |            |          | <input type="checkbox"/> ---3. Rotary - Air and Foam-----    | <input type="checkbox"/> |
|                                                                   |            |          | <input type="checkbox"/> ---4. Drill-Through Casing Hammer   | <input type="checkbox"/> |
|                                                                   |            |          | <input checked="" type="checkbox"/> ---5. Reverse Rotary     | <input type="checkbox"/> |
|                                                                   |            |          | <input type="checkbox"/> ---6. Cable-tool Bit in. dia-----   | <input type="checkbox"/> |
|                                                                   |            |          | <input type="checkbox"/> 7. Dual Rotary                      | <input type="checkbox"/> |
|                                                                   |            |          | <input type="checkbox"/> 8. Temp. Outer Casing in. dia.      | depth (ft)               |
| Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No |            |          | If no, why not?                                              |                          |

| 8. Geology                                   | From (ft.) | To (ft.)  |
|----------------------------------------------|------------|-----------|
| Type, Caving/Noncaving, Color, Hardness, etc |            |           |
| <b>-QS- SAND, C</b>                          | <b>0</b>   | <b>60</b> |

| 6. Casing, Liner, Screen | Material, Weight, Specification                   | From (ft.) | To (ft.)  |
|--------------------------|---------------------------------------------------|------------|-----------|
| Dia (in.)                |                                                   |            |           |
|                          | <b>6 STEEL PE 18.97 #/FT ASTM A-53 IPSCO WELD</b> | <b>0</b>   | <b>57</b> |

|                                                                                                           |                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9. Static Water Level<br>ft. above ground surface<br><b>30</b> ft. below ground surface                   | 11. Well is: <input checked="" type="checkbox"/> Above Grade<br><b>14</b> in. <input type="checkbox"/> Below Grade                                                                                                                                |
| 10. Pump Test<br>Pumping Level <b>40</b> ft. below surface<br>Pumping at <b>20</b> GPM for <b>1</b> hours | Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

| 7. Grout or Other Sealing Material. Method         | From (ft.) | To (ft.) | # Sacks Cement |
|----------------------------------------------------|------------|----------|----------------|
| Method: <b>MOUNDED</b><br>Kind of Sealing Material |            |          |                |
| <b>BENTONITE GRANULARS</b>                         | <b>0</b>   |          |                |

|                                                                                                                                                                                                    |                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: |                                  |
| 13. Signature of the Well Constructor or Supervisory Driller<br><b>RC</b>                                                                                                                          | Date signed<br><b>02/11/2007</b> |
| Signature of Drill Rig Operator (Mandatory unless same as above) Date signed                                                                                                                       |                                  |

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

*Geologic Log No*

*SID Number*

*Common Well Name*

*Well Notification #* 23673575

*Batch Seq #* 1067



# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER QM580

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **MILLER, LEON** Telephone **715-689-2535**  
Number

Mailing Address **23580 CT RD W**

City **GRANTSBURG**

State **WI** Zip Code **54840**

County of Well Location **Burnett**

County Well Permit No. **W**

Well Completion Date **11/08/2001**

Well Constructor (Business Name) **ROGER BEECROFT**

License # **182**

Facility ID Number (Public Wells)

Address **W8834 SAND RD**

Public Well Plan Approval #  
W--

City **SHELL LAKE**

State **WI** Zip Code **54871-9801**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity **2.5** gpm/ft

3. Well serves **1** # of homes and/or  
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

1. Well Location  
☒ Town ☐ City ☐ Village  
of **DANIELS**

Fire # (if available)

Grid or Street Address or Road Name and Number

Subdivision Name

Lot #

Block #

Gov't Lot # or **NW** 1/4 of **NW** 1/4 of  
Section **19** T **38** N; R **17** ☐ E ☒ W  
Latitude Deg. Min. Longitude Deg. Min.

2. Well Type ☐ New ☒ Replacement ☐ Reconstruction Lat/Long Method **GPS008**

of previous unique well # constructed in  
Reason for replaced or Reconstructed Well?

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No  
Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No  
Distance in Feet from Well to Nearest:

1. Landfill
- 30 2. Building Overhang
- 40 3. Septic ☐ Holding Tank ☒
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
☐ Cast Iron or Plastic ☐ Other
14. Building Sewer ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
15. Collector or Street Sewer:  
☐ Sanitary units in. diam.  
☐ Storm ☐ < 6 ☐ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
23. Other Manure Storage
24. Ditch

25. Other NR 812 Waste Storage

| 5. Drillhole Dimensions and Construction Method |            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dia (in.)                                       | From (ft.) | To (ft.) | Upper Enlarged Drillhole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 8.75                                            | 0          | 103      | <input checked="" type="checkbox"/> ---1. Rotary - Mud Circulation-----<br><input type="checkbox"/> ---2. Rotary - Air-----<br><input type="checkbox"/> ---3. Rotary - Air and Foam-----<br><input type="checkbox"/> ---4. Drill-Through Casing Hammer<br><input type="checkbox"/> ---5. Reverse Rotary<br><input type="checkbox"/> ---6. Cable-tool Bit in. dia-----<br><input type="checkbox"/> 7. Dual Rotary<br><input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft.)<br>Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If no, why not? |

| 6. Casing, Liner, Screen | Material, Weight, Specification | From (ft.) | To (ft.) |
|--------------------------|---------------------------------|------------|----------|
|--------------------------|---------------------------------|------------|----------|

**5 PVC SDR17 EAGLE SOLVENT WELD**

**0 99**

| Dia. (in.) | Screen type, material & slot size | 99 | 103 |
|------------|-----------------------------------|----|-----|
|------------|-----------------------------------|----|-----|

**P.S. STAINLESS STEEL 18**

7. Grout or Other Sealing Material. Method  
Method:

From (ft.) To (ft.) # Sacks Cement

Kind of Sealing Material

**AQUA-GROUT BENSEAL**

**0**

| 8. Geology                                   | From (ft.) | To (ft.) |
|----------------------------------------------|------------|----------|
| Type, Caving/Noncaving, Color, Hardness, etc |            |          |
| --Z-- GRAVEL & CLAY                          | 0          | 92       |
| --Y-- SAND & GRAVEL                          | 92         | 103      |

9. Static Water Level  
ft. above ground surface  
4 ft. below ground surface

11. Well is: ☒ Above Grade  
16 in. ☐ Below Grade  
Developed? ☒ Yes ☐ No  
Disinfected? ☒ Yes ☐ No  
Capped? ☒ Yes ☐ No

10. Pump Test  
Pumping Level **10** ft. below surface  
Pumping at **15** GPM for **1** hours

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? ☒ Yes ☐ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller **RB** Date signed **11/09/2001**

Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

Geologic Log No  
SID Number  
Common Well Name  
Well Notification #  
Batch Seq # 772

# Well Construction Report For WISCONSIN UNIQUE WELL NUMBER MB714

State of WI - Private Water Systems - DG/2  
Department of Natural Resources, Box 7921  
Madison, WI 53707  
Please type or Print using a black Pen  
Please Use Decimals Instead of Fractions.

Form 3300-77A  
(R 8/00)

Property Owner **ERICKSON, BRUCE** Telephone **715-689-2303**  
Number

Mailing Address **401 N PARK ST**

City **GRANTSBURG**

State **WI** Zip Code **54840**

County of Well Location **Burnett**

County Well Permit No. **W**

Well Completion Date **-09/26/1997**

1. Well Location  
☒ Town ☐ City ☐ Village  
of **DANIELS**

Fire # (if available)

Grid or Street Address or Road Name and Number

Subdivision Name Lot # Block #

Well Constructor (Business Name)  
**GARY BEECROFT**

License #  
**137**

Facility ID Number (Public Wells)

Address  
**1318 350TH AVE**

Public Well Plan Approval #  
W--

City **SIREN** State **WI** Zip Code **54872-9604**

Date of Approval (mm/dd/yyyy)

Hicap Permanent well #

Common Well #

Specific Capacity  
**1.4** gpm/ft

Gov't Lot # or NE 1/4 of SE 1/4 of  
Section **19** T **38** N; R **17** ☐ E ☒ W  
Latitude Deg. Min. Longitude Deg. Min.

2. Well Type ☒ New ☐ Replacement ☐ Reconstruction Lat/Long Method  
**GPS008**

of previous unique well # constructed in  
Reason for replaced or Reconstructed Well?  
**NEW HOME**

3. Well serves **1** # of homes and/or  
(e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? ☐ Yes ☒ No  
Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No  
Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No  
Distance in Feet from Well to Nearest:

1. Landfill
2. Building Overhang
- >25 3. Septic ☐ Holding Tank ☐
- >50 4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank

9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain  
☐ Cast Iron or Plastic ☐ Other
14. Building Sewer ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
15. Collector or Street Sewer:  
☐ Sanitary units in. diam.  
☐ Storm ☐ <= 6 ☐ > 6
16. Clearwater Sump

17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe ☐ Gravity ☐ Pressure  
☐ Cast Iron or Plastic ☐ Other
23. Other Manure Storage
24. Ditch

25. Other NR 812 Waste Storage

| 5. Drillhole Dimensions and Construction Method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |                    |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------|--------------|
| From                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | To    | Upper              | Lower        |
| Dia (in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (ft.) | Enlarged Drillhole | Open Bedrock |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0     | 50.75              |              |
| <input type="checkbox"/> --1. Rotary - Mud Circulation-----<br><input type="checkbox"/> --2. Rotary - Air-----<br><input type="checkbox"/> --3. Rotary - Air and Foam-----<br><input type="checkbox"/> --4. Drill-Through Casing Hammer<br><input type="checkbox"/> --5. Reverse Rotary<br><input type="checkbox"/> --6. Cable-tool Bit in. dia-----<br><input type="checkbox"/> 7. Dual Rotary<br><input type="checkbox"/> 8. Temp. Outer Casing in. dia. depth (ft.)<br>Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>If no, why not? |       |                    |              |

| 8.   | Geology                                      | From (ft.) | To (ft.) |
|------|----------------------------------------------|------------|----------|
|      | Type, Caving/Noncaving, Color, Hardness, etc |            |          |
| --S- | SAND                                         | 0          | 3        |
| --CG | GRAVELY CLAY                                 | 3          | 9        |
| --Y- | SAND @ GRAVEL                                | 9          | 12       |
| --CS | SANDY CLAY                                   | 12         | 31       |
| --CG | GRAVELY CLAY                                 | 31         | 34       |
| --SU | MUDDY SAND                                   | 34         | 42       |
| --Y- | SAND @ GRAVEL                                | 42         | 508.     |

| 6. Casing, Liner, Screen | Material, Weight, Specification                                                        | From (ft.) | To (ft.) |
|--------------------------|----------------------------------------------------------------------------------------|------------|----------|
| Dia (in.)                |                                                                                        |            |          |
| 6                        | NEW BLACK STEEL 1897 PER FT SATA53<br>280 WALLTHICKNESS SAWHILL PIPE CO<br>WELED JOINT | 0          | 46.8     |

|                       |                            |                                                                                  |
|-----------------------|----------------------------|----------------------------------------------------------------------------------|
| 9. Static Water Level | ft. above ground surface   | 11. Well is: <input checked="" type="checkbox"/> Above Grade                     |
|                       | 8 ft. below ground surface | <input type="checkbox"/> Below Grade                                             |
| 10. Pump Test         |                            | 12 in. <input type="checkbox"/> Below Grade                                      |
| Pumping Level         | 30 ft. below surface       | Developed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |
| Pumping at            | 30 GPM for .75 hours       | Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
|                       |                            | Capped? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No      |

| 7. Grout or Other Sealing Material. Method | From (ft.) | To (ft.) | # Sacks Cement |
|--------------------------------------------|------------|----------|----------------|
| Method:                                    |            |          |                |
| Kind of Sealing Material                   |            |          |                |
| BENTONITE GRRAU DRIVING CASING             | 0          | 0        |                |

|                                                                                                             |                                                                          |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: |
| 13. Signature of the Well Constructor or Supervisory Driller                                                | Date signed                                                              |
| GB                                                                                                          | 10/08/1997                                                               |
| Signature of Drill Rig Operator (Mandatory unless same as above)                                            | Date signed                                                              |
| TB                                                                                                          | 10/08/1997                                                               |

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Well Codes and Identifiers

Geologic Log No  
SID Number  
Common Well Name  
Well Notification #  
Batch Seq # 477



# WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Burnett Town ☒ Daniels  
 Village ☐  
 City ☐ Check one and give name
2. Location Sec 18-T38-R17W  
 Name of street and number of premise or Section, Town and Range numbers
3. Owner ☒ or Agent ☐ Body Olson  
 Name of individual, partnership or firm
4. Mail Address Siren, R#1 Box 54  
 Complete address required
5. From well to nearest: Building 5 ft; sewer      ft; drain      ft; septic tank 150 ft;  
 dry well or filter bed      ft; abandoned well      ft.
6. Well is intended to supply water for: home

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 8          | 0          | 20       | 7          | 20         | 103      |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight               | From (ft.) | To (ft.) |
|------------|-------------------------------|------------|----------|
| 4          | Republic Steel 11 1/2" per ft | 0          | 100      |
|            | Jackson Emerald               |            |          |
|            | Green                         | 100        | 103      |

## 9. GROUT:

has duplex packed unit

| Kind | From (ft.) | To (ft.) |
|------|------------|----------|
| Clay | 0          | 20       |

## 11. MISCELLANEOUS DATA:

Yield test: 10 Hrs. at 8 GPM.  
 Depth from surface to water-level: 43 ft.  
 Water-level when pumping: 51 ft.  
 Water sample was sent to the state laboratory at:  
Madison on Sec 22 1959  
 City

## 10. FORMATIONS:

| Kind          | From (ft.) | To (ft.) |
|---------------|------------|----------|
| Red Clay      | 0          | 10       |
| Sandy Clay    | 10         | 41       |
| Sand & Gravel | 41         | 103      |

Construction of the well was completed on:

Nov 15- 1959

The well is terminated 12 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐

Signature

Willis Riley  
 Registered Well Driller

Cumberland Wis R #3  
 Complete Mail Address

Please do not write in space below

Rec'd

**DEC 23 1959**

No.

44072

Ans'd

Interpretation

**UNSAFE**

Gas—24 hrs.

48 hrs.

Confirm

B. Coll

10 ml 10 ml 10 ml 10 ml 10 ml

+ + + 0 0

+ + + 0 0

3 5

Examiner



# WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Burnett Town ☒ Daniels  
Village ☐  
City ☐ Check one and give name

2. Location Sec 18-T38-R17W  
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Body Olson  
Name of individual, partnership or firm

4. Mail Address Sun P#1 Box 54  
Complete address required

5. From well to nearest: Building 5 ft; sewer      ft; drain      ft; septic tank 150 ft;  
dry well or filter bed      ft; abandoned well      ft.

6. Well is intended to supply water for: home

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
|            |            |          | 4          | 0          | 103      |
|            |            |          | 4          | 100        | 120      |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight | From (ft.) | To (ft.) |
|------------|-----------------|------------|----------|
|            | Republic        | 100        | 117      |
|            | Johnson screen  | 117        | 120      |
|            | Everdur         |            |          |

## 9. GROUT:

| Kind | From (ft.) | To (ft.) |
|------|------------|----------|
|      |            |          |

## 11. MISCELLANEOUS DATA:

Yield test: 12 Hrs. at 8 GPM.

Depth from surface to water-level: 43 ft.

Water-level when pumping: 69 ft.

Water sample was sent to the state laboratory at:

Madison on Nov 30 1960  
City

## 10. FORMATIONS:

| Kind          | From (ft.) | To (ft.) |
|---------------|------------|----------|
| Sand & Gravel | 103        | 120      |
|               |            |          |
|               |            |          |
|               |            |          |
|               |            |          |
|               |            |          |
|               |            |          |
|               |            |          |
|               |            |          |

Construction of the well was completed on:

Nov 5 1960

The well is terminated 12 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐

Signature Willis H. Riley  
Registered Well Driller

Cumtland Wis  
Complete Mail Address

Please do not write in space below

Rec'd DEC 1-1960 No. 47437

Ans'd SAFE-BACTERIOLOGICALLY

Interpretation     

Gas-24 hrs.     

48 hrs.     

Confirm     

B. Coli     

Examiner





**WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH**  
See Instructions on Reverse Side

Well 6

1. County Burnett { Town ☒ Village ☐ City ☐ **Sanitized**  
NW, NE, NE Check one and give name

2. Location Rt. 19 Sec. 19 Twp. 38 N R. 17 W  
Name of street and number of premise or Section, Town and Range numbers **JUL 15 1963**

3. Owner ☒ or Agent ☐ Hugh Parker  
Name of individual, partnership or firm

4. Mail Address Rt. 1, Siren, Wis. **SANITARY ENGINEERING**  
Complete address required

5. From well to nearest: Building 18 ft; sewer - ft; drain 14 ft; septic tank 50 ft;  
dry well or filter bed 70 ft; abandoned well - ft.

6. Well is intended to supply water for: Home

**7. DRILLHOLE:**

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 8          | 0          | 20       |            |            |          |
| 4          | 20         | 64       |            |            |          |

**8. CASING AND LINER PIPE OR CURBING:**

| Dia. (in.) | Kind and Weight        | From (ft.) | To (ft.) |
|------------|------------------------|------------|----------|
| 4          | 11# black              | 0          | 62'      |
|            | 3ft S.S. 4" diam       |            |          |
|            | 18 slot Johnson screen |            |          |

**9. GROUT:**

| Kind           | From (ft.) | To (ft.) |
|----------------|------------|----------|
| drill cuttings | 0          | 20       |

**11. MISCELLANEOUS DATA:**

Yield test: 1 Hrs. at 15 GPM.

Depth from surface to water-level: 34 ft.

Water-level when pumping: 44 ft.

Water sample was sent to the state laboratory at:

Madison on June 3 1963  
City

**10. FORMATIONS:**

| Kind             | From (ft.) | To (ft.) |
|------------------|------------|----------|
| Stoney clay      | 0          | 16       |
| Sandy clay       | 16         | 32       |
| hard pan, clayey | 32         |          |
| gravel           |            | 56       |
| coarse sand      | 56         | 64       |

Construction of the well was completed on:

May 30 1963

The well is terminated 8 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes X No -

Was the well sealed watertight upon completion?

Yes X No -

**BEECROFT BROS. WELL DRILLERS**

**CLARENCE & WM. K. BEECROFT**  
Clam Falls, Wis.

Signature Wm. K. Beecroft

Registered Well Driller

Complete Mail Address

Please do not write in space below

Rec'd \_\_\_\_\_ No. \_\_\_\_\_

Ans'd \_\_\_\_\_

Interpretation \_\_\_\_\_

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs. \_\_\_\_\_

48 hrs. \_\_\_\_\_

Confirm \_\_\_\_\_

B. Coli \_\_\_\_\_

Examiner \_\_\_\_\_

County Barnett Twp. Daniels Sec. BT-35-U  
(Office Record—Do not fill in)  
SE, NW, Section 20 T38N R17W JAN 3 1945

TO THE WISCONSIN STATE BOARD OF HEALTH,  
WELL DRILLING DIVISION, MADISON, WIS. ✓

WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board  
(TO BE USED FOR THAT PURPOSE ONLY)

Owner Victor Peterson Driller Arrel Bergstrom  
(If a joint ownership give name of responsible official. Also name of each individual holding an interest. Use a separate sheet and attach hereto.)  
Address Grantsburg Wis  
Address Sixth NW 15 (City, village, township, county)  
Date of Report Dec 29 1944  
Registration No. 380

Give below the location of the property on which well is drilled.

If incorporated village or city: Name Lot Blk. Street and No.  
If unincorporated hamlet Name County Twp. Highway  
If Lake Shore Plat Name of Plat Lot Blk. Sec.  
If Farm Burnett T 38 N R 17 W 20 5TH # 70  
County Twp. Sec. Highway  
If School County Twp. Sec. District  
If other public building Kind County Twp. Sec.  
Miscellaneous Kind County Twp. Sec.

WELL LOG and REPORT

| Kind of casing and liner in feet.<br>Kind of shoe. Indicate grout,<br>screen, seal, etc.                                                   | WELL DIAGRAM<br>Vertical Lines = in. Dia.<br>Horizontal Lines = ft. Depth | Give depth of formations in feet.<br>State if dry or water bearing. | Record of<br>FINAL<br>Pumping Test     |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|
| Standard Weight<br>"National" Water<br>Well Pipe.<br><br>Malleable iron<br>Drive shoe #433<br><br>4' #40 Mesh<br>Screen<br><br>Flange Seal | 0 2 4 6 8 10 12 14 16 18 20                                               | 4' Top Soil + Sand                                                  | Duration of test.                      |
|                                                                                                                                            | 25                                                                        | 6' Red Clay                                                         | Hours <u>2</u>                         |
|                                                                                                                                            | 30                                                                        | 12' Sand                                                            | Pumping Rate.                          |
|                                                                                                                                            | 35                                                                        | 27' Sand + clay                                                     | G. P. M. <u>4</u>                      |
|                                                                                                                                            | 40                                                                        | 38' Hard Pan                                                        | Depth of pump in well.                 |
|                                                                                                                                            | 45                                                                        | 46' Coarse Gravel + Sand                                            | Ft. <u>42</u>                          |
|                                                                                                                                            | 50                                                                        |                                                                     | Standing water-level<br>(from surface) |
|                                                                                                                                            | 75                                                                        |                                                                     | Ft. <u>12</u>                          |
|                                                                                                                                            | 100                                                                       |                                                                     | Water level when pumping               |
|                                                                                                                                            | 125                                                                       |                                                                     | Ft. <u>14</u>                          |
| 150                                                                                                                                        |                                                                           | Water, End of test. Check:                                          |                                        |
| 175                                                                                                                                        |                                                                           | Clear <input checked="" type="checkbox"/>                           |                                        |
| 200                                                                                                                                        |                                                                           | Cloudy <input type="checkbox"/>                                     |                                        |
| 225                                                                                                                                        |                                                                           | Turbid <input type="checkbox"/>                                     |                                        |
| 250                                                                                                                                        |                                                                           | Was well sterilized before test?                                    |                                        |
| 275                                                                                                                                        |                                                                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                        |
| 300                                                                                                                                        |                                                                           | Date <u>10/6/44</u>                                                 |                                        |
| 325                                                                                                                                        |                                                                           | To which Laboratory was sample sent?                                |                                        |
| 350                                                                                                                                        |                                                                           | <u>Superior Wis</u>                                                 |                                        |
| 375                                                                                                                                        |                                                                           | Date <u>10/16/44</u>                                                |                                        |
| 400                                                                                                                                        |                                                                           | Was the well sealed on completion?                                  |                                        |
| 425                                                                                                                                        |                                                                           | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> |                                        |
| 450                                                                                                                                        |                                                                           | How high did you leave casing above grade?                          |                                        |
| 475                                                                                                                                        |                                                                           | <u>15"</u>                                                          |                                        |
| 500                                                                                                                                        |                                                                           | Well was completed                                                  |                                        |
| 525                                                                                                                                        |                                                                           | <u>May 27, 1944</u>                                                 |                                        |
| 550                                                                                                                                        |                                                                           | Well Driller:                                                       |                                        |
| 575                                                                                                                                        |                                                                           | <u>Arrel Bergstrom</u>                                              |                                        |
| 600                                                                                                                                        |                                                                           | Signature.                                                          |                                        |
| 625                                                                                                                                        |                                                                           | (Be sure to complete the report on the reverse side)                |                                        |
| 650                                                                                                                                        |                                                                           | 2948016 114<br>ph.t                                                 |                                        |

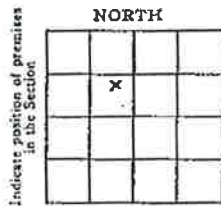
WGNHS ORIGINAL

# PREMISES DIAGRAM

(See Rules)

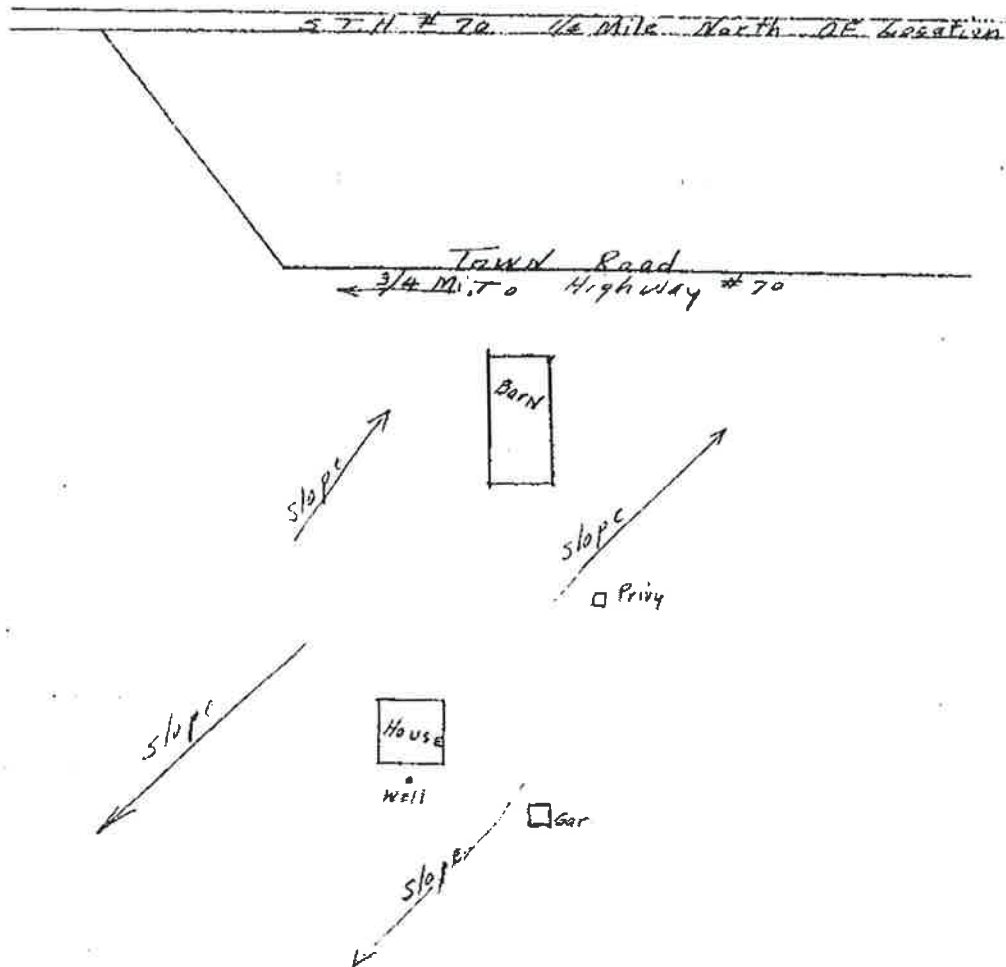
Draw a representative sketch of the premises on which this well is located, showing the location of the well with reference to buildings and possible sources of pollution. Indicate the condition of the surroundings by printing descriptive words like high, low, level, slope, lake, river, swamp, forest, meadow, barnyard, cesspool, privy, sewer, etc., at their respective locations and show distance from the well on the sketch. Also show direction of the compass. See Part III of Code for specimen Diagram.

REMARKS:



Sec. T R (E) (W)

(Each division equals 10') (If more or less indicate: )



Showing in circle the Direction of Compass



Note: Additional copies of this form may be obtained at 5c per copy in lots of 10 or more. Send remittance with order to State Board of Health, Well Drilling Division, Madison.



County Burnett Twp. Danish Sec. BT-34-U  
(Office Record - Do not fill in)  
NE, SE, Section 20 T38N R17W JAN 3 1945

TO THE WISCONSIN STATE BOARD OF HEALTH,  
WELL DRILLING DIVISION, MADISON, WIS.

WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board  
(TO BE USED FOR THAT PURPOSE ONLY)

Owner R.M. Strum Driller Hel Bergstrom  
(If a joint ownership give name of responsible owner. Also name of each individual holding an interest. Use a separate sheet and attach hereto.)  
Address Grantsburg, Wis.  
Address Siyan, Wisconsin Date of Report 12/29 1944  
(City, village, township, county) Registration No. 380

Give below the location of the property on which well is drilled.

If incorporated village or city:

If unincorporated hamlet

If Lake Shore Plat

If Farm Burnett Name of Plat T38N R17W Lot 20 Sec. S.T.H. #20  
County Township Sec. Highway

If School

If other public building

Miscellaneous

WELL LOG and REPORT

| Kind of casing and liner in feet.<br>Kind of shoe. Indicate grout, screen, seal, etc.                                         | WELL DIAGRAM<br>Vertical Lines = in. Dia.<br>Horizontal Lines = ft. Depth | Give depth of formations in feet.<br>State if dry or water bearing.                                                         | Record of<br>FINAL<br>Pumping Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard Weight<br>"National" Water<br>Well Pipe<br>Malleable iron<br>Drive shoe #433<br>4' #40 Mesh<br>Screen<br>Flange Seal |                                                                           | 7' Top Soil Chy & Sand<br><br>66' Sand<br>72' Water Bearing Sand<br>88' Fine Water Bearing Sand<br>92' Coarse Gravel & Sand | Duration of test.<br>Hours <u>2</u><br><br>Pumping Rate.<br>G. P. M. <u>4</u><br><br>Depth of pump in well.<br>Ft. <u>88'</u><br><br>Standing water-level<br>(from surface.)<br>Ft. <u>50'</u><br><br>Water level when pumping<br>Ft. <u>54'</u><br><br>Water. End of test. Check:<br>Clear <input checked="" type="checkbox"/><br>Cloudy <input type="checkbox"/><br>Turbid <input type="checkbox"/><br><br>Was well sterilized before<br>test?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Date <u>9/5/44</u><br><br>To which Laboratory was<br>sample sent?<br><u>Superior Wis.</u><br>Date <u>9/20/44</u><br><br>Was the well sealed on<br>completion?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br><br>How high did you leave<br>casing above grade?<br><u>14"</u><br><br>Well was completed<br><u>May 20</u> 19 <u>44</u><br><br>Well Driller:<br><u>Hel Bergstrom</u><br>Signature<br><br>(Be sure to complete the<br>report on the reverse side)<br><u>2949043</u> as<br>plot |

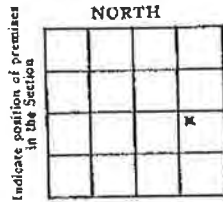
WGN: ORIGINAL

# PREMISES DIAGRAM

(See Rules)

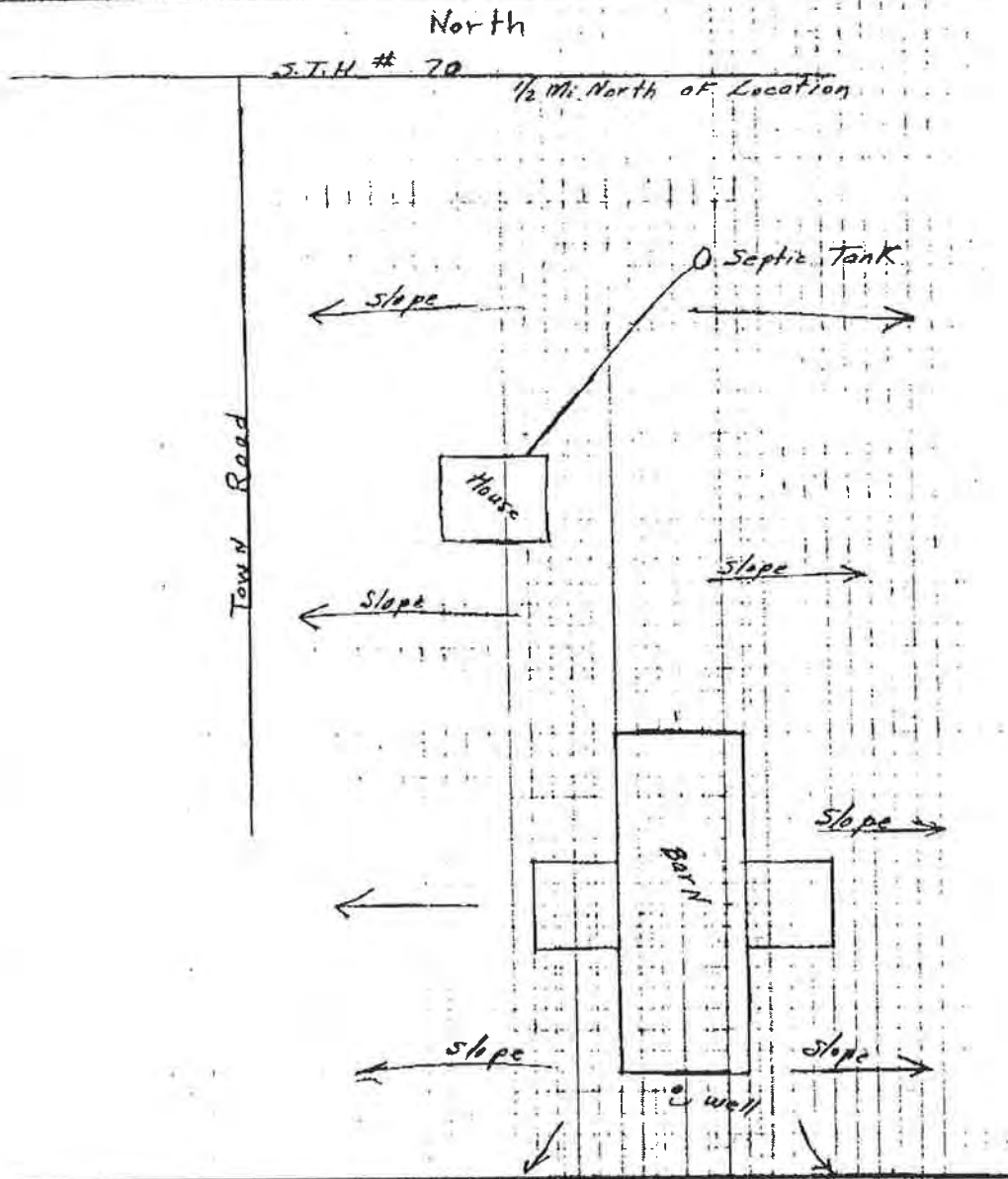
Draw a representative sketch of the premises on which this well is located, showing the location of the well with reference to buildings and possible sources of pollution. Indicate the condition of the surroundings by printing descriptive words like high, low, level, slope, lake, river, swamp, forest, meadow, barnyard, cesspool, privy, sewer, etc., at their respective locations and show distance from the well on the sketch. Also show direction of the compass. See Part III of Code for specimen Diagram.

REMARKS:



Sec. T. R. (E) (W)

(Each division equals 10') (If more or less indicate: \_\_\_\_\_)



Showing in circle the Direction of Compass



Note: Additional copies of this form may be obtained at 5c per copy in lots of 10 or more. Send remittance with order to State Board of Health, Well Drilling Division, Madison.

WELL CONSTRUCTOR'S REPORT  
FORM 3300-15

NOTE

WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

MAY 2, 1975

|                                                                                                          |                                  |                                                                                                                      |                                      |                                        |                                                         |
|----------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|---------------------------------------------------------|
| 1. COUNTY<br><b>Burnett</b>                                                                              |                                  | CHECK ONE<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |                                      | NAME<br><b>Daniels</b>                 |                                                         |
| 2. LOCATION - 1/4 Section<br><input checked="" type="checkbox"/> N.E. 1/4                                |                                  | Section<br><b>21</b>                                                                                                 | Township<br><b>38-N</b>              | Range<br><b>17 W</b>                   | 3. OWNER AT TIME OF DRILLING<br><b>Curtes Fallstrom</b> |
| OR - Grid or street no.                                                                                  |                                  | Street name                                                                                                          |                                      | ADDRESS<br><b>R.R.1</b>                |                                                         |
| AND - If available subdivision name, lot & block no.                                                     |                                  |                                                                                                                      |                                      | POST OFFICE<br><b>Siren Wis. 54840</b> |                                                         |
| 4. Distance in feet from well to nearest:<br>(Record answer in appropriate block)                        |                                  | BUILDING<br>C. I.<br><b>20</b>                                                                                       | SANITARY SEWER<br>C. I.<br><b>30</b> | FLOOR DRAIN<br>C. I.<br><b>30</b>      | FOUNDATION DRAIN<br>SEWER CONNECTED<br><b>XX</b>        |
|                                                                                                          |                                  |                                                                                                                      | TILE<br><b>30</b>                    | TILE<br><b>XX</b>                      | INDEPENDENT<br><b>XX</b>                                |
|                                                                                                          |                                  |                                                                                                                      |                                      |                                        | WASTE WATER DRAIN<br>C. I.<br><b>30</b>                 |
|                                                                                                          |                                  |                                                                                                                      |                                      |                                        | TILE<br><b>XX</b>                                       |
| CLEAR WATER DRAIN<br>C. I.<br><b>XX</b>                                                                  | SEPTIC TANK<br>TILE<br><b>44</b> | PRIVY<br><b>XX</b>                                                                                                   | SEEPAGE PIT<br><b>XX</b>             | ABSORPTION FIELD<br><b>78</b>          | BARN<br><b>XX</b>                                       |
|                                                                                                          |                                  |                                                                                                                      |                                      |                                        | SILO<br><b>XX</b>                                       |
|                                                                                                          |                                  |                                                                                                                      |                                      |                                        | ABANDONED WELL<br><b>XX</b>                             |
|                                                                                                          |                                  |                                                                                                                      |                                      |                                        | SINK HOLE<br><b>XX</b>                                  |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.) |                                  |                                                                                                                      |                                      |                                        |                                                         |

5. Well is intended to supply water for:

**Family Home**

|                                       |                             |           |                |            |          |               |                |           |
|---------------------------------------|-----------------------------|-----------|----------------|------------|----------|---------------|----------------|-----------|
| 6. DRILLHOLE                          |                             |           |                |            |          | 9. FORMATIONS |                |           |
| Dia. (in.)                            | From (ft.)                  | To (ft.)  | Dia. (in.)     | From (ft.) | To (ft.) | Kind          | From (ft.)     | To (ft.)  |
| <b>4</b>                              | <b>Surface</b>              | <b>70</b> |                |            |          | <b>Sand</b>   | <b>Surface</b> | <b>70</b> |
| 7. CASING, LINER, CURBING, AND SCREEN |                             |           |                |            |          |               |                |           |
| Dia. (in.)                            | Kind and Weight             |           | From (ft.)     | To (ft.)   |          |               |                |           |
| <b>4</b>                              | <b>Steel pipe new</b>       |           | <b>Surface</b> | <b>66</b>  |          |               |                |           |
|                                       | <b>Weight 11.00 T&amp;C</b> |           |                |            |          |               |                |           |
|                                       | <b>4 Ft 4 In. screen</b>    |           |                |            |          |               |                |           |
|                                       | <b>below casing</b>         |           |                |            |          |               |                |           |

|                                                    |                   |               |                                                                                                                          |                                                                             |                                                                                                   |
|----------------------------------------------------|-------------------|---------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| 8. GROUT OR OTHER SEALING MATERIAL                 |                   |               | 10. TYPE OF DRILLING MACHINE USED                                                                                        |                                                                             |                                                                                                   |
| Kind                                               | From (ft.)        | To (ft.)      | <input type="checkbox"/> Cable Tool                                                                                      | <input type="checkbox"/> Direct Rotary                                      | <input type="checkbox"/> Reverse Rotary                                                           |
| <b>Drove</b>                                       | <b>Surface</b>    | <b>70</b>     | <input type="checkbox"/> Rotary - air w/drilling mud                                                                     | <input checked="" type="checkbox"/> Rotary - hammer with drilling mud & air | <input type="checkbox"/> Jetting with <input type="checkbox"/> Air <input type="checkbox"/> Water |
| <b>Casing pulled 4 Ft.</b>                         |                   |               | Well construction completed on <b>Feb. 11 19 75</b>                                                                      |                                                                             |                                                                                                   |
| 11. MISCELLANEOUS DATA                             |                   |               | Well is terminated <b>12</b> inches <input checked="" type="checkbox"/> above <input type="checkbox"/> below final grade |                                                                             |                                                                                                   |
| Yield test: <b>2</b>                               | Hrs. at <b>10</b> | GPM <b>43</b> | Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                     |                                                                             |                                                                                                   |
| Depth from surface to normal water level <b>43</b> | ft.               |               | Well sealed watertight upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No               |                                                                             |                                                                                                   |
| Depth to water level when pumping <b>55</b>        | ft.               |               |                                                                                                                          |                                                                             |                                                                                                   |

Water sample sent to **State** laboratory on: **March 3 1975**

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| SIGNATURE<br><i>Hoyas</i> | COMPLETE MAIL ADDRESS<br><b>R.R.1 Bay City, Wis. 54723</b> |
|---------------------------|------------------------------------------------------------|

Please do not write in space below

|                                     |               |               |           |                                             |
|-------------------------------------|---------------|---------------|-----------|---------------------------------------------|
| COLIFORM TEST RESULT<br><b>1134</b> | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS<br><b>232 265</b><br><b>2944040</b> |
|-------------------------------------|---------------|---------------|-----------|---------------------------------------------|



NOTE:

White Copy - Division's Copy  
Green Copy - Driller's Copy  
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT  
Form 3300-15  
Rev. 10-75

AUG 31 1977

|                                                                                                                                                                                                                                                                       |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| 1. COUNTY <u>Burnett</u>                                                                                                                                                                                                                                              |  | CHECK (✓) ONE:<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |                     | Name <u>Daniels</u>                                                                |                                                                                                                                              |
| 2. LOCATION<br>OR - Grid or Street No. <u>SE 1/4</u><br><u>1N 1/2</u>                                                                                                                                                                                                 |  | Section <u>22</u>                                                                                                         | Township <u>38N</u> | Range <u>17W</u>                                                                   | 3. NAME <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING CHECK (✓) ONE<br><u>Richard Strabel</u> |
| AND - If available subdivision name, lot & block No.                                                                                                                                                                                                                  |  |                                                                                                                           |                     |                                                                                    | ADDRESS <u>Swen Wm PPH</u>                                                                                                                   |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block)                                                                                                                                                                                        |  |                                                                                                                           |                     |                                                                                    | POST OFFICE                                                                                                                                  |
| Building <u>5</u>                                                                                                                                                                                                                                                     |  | Sanitary Bldg. Drain<br>C.I. Other                                                                                        |                     | Sanitary Bldg. Sewer<br>C.I. Other                                                 |                                                                                                                                              |
| Floor Drain Connected To:<br>C.I. Sewer Other Sewer                                                                                                                                                                                                                   |  | Storm Bldg. Drain<br>C.I. Other                                                                                           |                     | Storm Bldg. Sewer<br>C.I. Other                                                    |                                                                                                                                              |
| Street Sewer<br>San. Storm                                                                                                                                                                                                                                            |  | Other Sewers<br>C.I. Other                                                                                                |                     | Foundation Drain Connected to:<br>Sewer Clearwater Dr. Sewage Sump Clearwater Sump |                                                                                                                                              |
| Clearwater Sump                                                                                                                                                                                                                                                       |  | Septic Tank                                                                                                               |                     | Holding Tank                                                                       |                                                                                                                                              |
| Sewage Absorption Unit<br>Seepage Pit Seepage Bed Seepage Trench                                                                                                                                                                                                      |  | 100                                                                                                                       |                     |                                                                                    |                                                                                                                                              |
| Privy                                                                                                                                                                                                                                                                 |  | Pet Waste Pit                                                                                                             |                     | Pit: Nonconforming Existing<br>Well Pump Tank                                      |                                                                                                                                              |
| Subsurface Pumproom                                                                                                                                                                                                                                                   |  | Barn Gutter                                                                                                               |                     | Animal Barn Pen                                                                    |                                                                                                                                              |
| Animal Yard                                                                                                                                                                                                                                                           |  | Silo With Pit                                                                                                             |                     | Glass Lined Storage Facility                                                       |                                                                                                                                              |
| Silo w/o Pit                                                                                                                                                                                                                                                          |  | Earthen Silage Storage Trench Or Pit                                                                                      |                     |                                                                                    |                                                                                                                                              |
| Temporary Manure Stack                                                                                                                                                                                                                                                |  | Watertight Liquid Manure Tank                                                                                             |                     | Solid Manure Storage Structure                                                     |                                                                                                                                              |
| Subsurface Gasoline or Oil Tank                                                                                                                                                                                                                                       |  | Waste Pond or Land Disposal Unit (Specify Type)                                                                           |                     | Other (Give Description)                                                           |                                                                                                                                              |
| 5. Well is intended to supply water for: <u>home</u>                                                                                                                                                                                                                  |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| 6. DRILLHOLE                                                                                                                                                                                                                                                          |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Dia. (in.)                                                                                                                                                                                                                                                            |  | From (ft.)                                                                                                                |                     | To (ft.)                                                                           |                                                                                                                                              |
| 8                                                                                                                                                                                                                                                                     |  | Surface                                                                                                                   |                     | 20                                                                                 |                                                                                                                                              |
| 4                                                                                                                                                                                                                                                                     |  | 20                                                                                                                        |                     | 98                                                                                 |                                                                                                                                              |
| 7. CASING, LINER, CURBING AND SCREEN                                                                                                                                                                                                                                  |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Dia. (in.)                                                                                                                                                                                                                                                            |  | Material, Weight, Specification & Method of Assembly                                                                      |                     | From (ft.) To (ft.)                                                                |                                                                                                                                              |
| 4" US Steel 11                                                                                                                                                                                                                                                        |  | A589 CT                                                                                                                   |                     | Surface 95                                                                         |                                                                                                                                              |
| Johnson SS Screen                                                                                                                                                                                                                                                     |  | 95                                                                                                                        |                     | 98                                                                                 |                                                                                                                                              |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                    |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Kind                                                                                                                                                                                                                                                                  |  | From (ft.)                                                                                                                |                     | To (ft.)                                                                           |                                                                                                                                              |
| Clay Slurry                                                                                                                                                                                                                                                           |  | Surface                                                                                                                   |                     | 20                                                                                 |                                                                                                                                              |
| 10. TYPE OF DRILLING MACHINE USED                                                                                                                                                                                                                                     |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| <input checked="" type="checkbox"/> Cable Tool                                                                                                                                                                                                                        |  | <input type="checkbox"/> Rotary-hammer w/drilling mud & air                                                               |                     | <input type="checkbox"/> Jetting with                                              |                                                                                                                                              |
| <input type="checkbox"/> Rotary-air w/drilling mud                                                                                                                                                                                                                    |  | <input type="checkbox"/> Rotary-hammer & air                                                                              |                     | <input type="checkbox"/> Air                                                       |                                                                                                                                              |
| <input type="checkbox"/> Rotary-w/drilling mud                                                                                                                                                                                                                        |  | <input type="checkbox"/> Reverse Rotary                                                                                   |                     | <input type="checkbox"/> Water                                                     |                                                                                                                                              |
| Well construction completed on <u>July 1</u> 19 <u>77</u>                                                                                                                                                                                                             |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Well is terminated <u>15</u> inches <input type="checkbox"/> above final grade <input type="checkbox"/> below                                                                                                                                                         |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                  |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Well sealed watertight upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                            |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Yield Test: <u>14</u>                                                                                                                                                                                                                                                 |  | Hrs. at <u>10</u>                                                                                                         |                     | GPM                                                                                |                                                                                                                                              |
| Depth from surface to normal water level <u>77</u>                                                                                                                                                                                                                    |  | Ft.                                                                                                                       |                     |                                                                                    |                                                                                                                                              |
| Depth of water level when pumping <u>85</u>                                                                                                                                                                                                                           |  | Ft.                                                                                                                       |                     | Stabilized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     |                                                                                                                                              |
| Water sample sent to <u>Madison</u> laboratory on <u>July 25</u> 19 <u>77</u>                                                                                                                                                                                         |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasing, etc., should be given on reverse side. |  |                                                                                                                           |                     |                                                                                    |                                                                                                                                              |
| Signature <u>Walter H. Riley</u>                                                                                                                                                                                                                                      |  | Complete Mail Address <u>Barronett Wm</u>                                                                                 |                     |                                                                                    |                                                                                                                                              |
| 135                                                                                                                                                                                                                                                                   |  | 2944037                                                                                                                   |                     |                                                                                    |                                                                                                                                              |

WELL CONSTRUCTOR'S REPORT  
FORM 3300-15

MAY 2, 1975

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

NOTE  
WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            |                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------|-----------------------------------------------------|
| 1. COUNTY<br><b>Burnett</b>                                                                                                                                                                                                                                                                                                       |                             | CHECK ONE<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |                         | NAME<br><b>Daniels</b>                                     |                                                     |
| 2. LOCATION - 1/4 Section<br><input checked="" type="checkbox"/> NW <b>N.W. 1/4</b>                                                                                                                                                                                                                                               |                             | Section<br><b>22</b>                                                                                                 | Township<br><b>38 N</b> | Range<br><b>17 W</b>                                       | 3. OWNER AT TIME OF DRILLING<br><b>Bruce Taylor</b> |
| OR - Grid or street no.                                                                                                                                                                                                                                                                                                           |                             | Street name                                                                                                          |                         | ADDRESS<br><b>R.R.1</b>                                    |                                                     |
| AND - If available subdivision name, lot & block no.                                                                                                                                                                                                                                                                              |                             | POST OFFICE<br><b>Siren, Wis. 54872</b>                                                                              |                         |                                                            |                                                     |
| 4. Distance in feet from well to nearest:<br>(Record answer in appropriate block)                                                                                                                                                                                                                                                 |                             | BUILDING<br>C. I.                                                                                                    | SANITARY SEWER<br>TILE  | FLOOR DRAIN<br>C. I.                                       | FOUNDATION DRAIN<br>TILE                            |
|                                                                                                                                                                                                                                                                                                                                   |                             | <b>15</b>                                                                                                            | <b>35</b>               | <b>35</b>                                                  | <b>XXX</b>                                          |
|                                                                                                                                                                                                                                                                                                                                   |                             | <b>XXX</b>                                                                                                           | <b>XXX</b>              | <b>35</b>                                                  |                                                     |
| CLEAR WATER DRAIN<br>C. I.                                                                                                                                                                                                                                                                                                        | SEPTIC TANK<br>TILE         | PRIVY                                                                                                                | SEEPAGE PIT             | ABSORPTION FIELD                                           | BARN                                                |
|                                                                                                                                                                                                                                                                                                                                   | <b>52</b>                   | <b>XX</b>                                                                                                            | <b>XX</b>               | <b>75</b>                                                  | <b>XX</b>                                           |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            | <b>XX</b>                                           |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            | <b>XXX</b>                                          |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            | <b>XX</b>                                           |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)                                                                                                                                                                                                                          |                             |                                                                                                                      |                         |                                                            |                                                     |
| 5. Well is intended to supply water for:<br><b>Family Home</b>                                                                                                                                                                                                                                                                    |                             |                                                                                                                      |                         |                                                            |                                                     |
| 6. DRILLHOLE                                                                                                                                                                                                                                                                                                                      |                             |                                                                                                                      |                         | 9. FORMATIONS                                              |                                                     |
| Dia. (in.)                                                                                                                                                                                                                                                                                                                        | From (ft.)                  | To (ft.)                                                                                                             | Dia. (in.)              | From (ft.)                                                 | To (ft.)                                            |
| <b>4</b>                                                                                                                                                                                                                                                                                                                          | <b>Surface</b>              | <b>70</b>                                                                                                            |                         |                                                            |                                                     |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            |                                                     |
| 7. CASING, LINER, CURBING, AND SCREEN                                                                                                                                                                                                                                                                                             |                             |                                                                                                                      |                         |                                                            |                                                     |
| Dia. (in.)                                                                                                                                                                                                                                                                                                                        | Kind and Weight             |                                                                                                                      | From (ft.)              | To (ft.)                                                   |                                                     |
| <b>4</b>                                                                                                                                                                                                                                                                                                                          | <b>Steel pipe new</b>       |                                                                                                                      | <b>Surface</b>          | <b>66</b>                                                  |                                                     |
|                                                                                                                                                                                                                                                                                                                                   | <b>Weight 11.00 T&amp;C</b> |                                                                                                                      |                         |                                                            |                                                     |
|                                                                                                                                                                                                                                                                                                                                   | <b>4 Ft. 4 In. Screen</b>   |                                                                                                                      |                         |                                                            |                                                     |
|                                                                                                                                                                                                                                                                                                                                   | <b>below casing</b>         |                                                                                                                      |                         |                                                            |                                                     |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                                                                                |                             |                                                                                                                      |                         | 10. TYPE OF DRILLING MACHINE USED                          |                                                     |
| Kind                                                                                                                                                                                                                                                                                                                              |                             | From (ft.)                                                                                                           | To (ft.)                |                                                            |                                                     |
| <b>Drove</b>                                                                                                                                                                                                                                                                                                                      |                             | <b>Surface</b>                                                                                                       | <b>70</b>               |                                                            |                                                     |
| <b>Casing pulled 4 Ft.</b>                                                                                                                                                                                                                                                                                                        |                             |                                                                                                                      |                         |                                                            |                                                     |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         |                                                            |                                                     |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                                                                            |                             |                                                                                                                      |                         | 10. TYPE OF DRILLING MACHINE USED                          |                                                     |
| Yield test:                                                                                                                                                                                                                                                                                                                       | <b>2</b>                    | Hrs. at                                                                                                              | <b>10</b>               | GPM                                                        | <b>12</b>                                           |
| Depth from surface to normal water level                                                                                                                                                                                                                                                                                          | <b>35</b>                   |                                                                                                                      |                         | ft.                                                        |                                                     |
| Depth to water level when pumping                                                                                                                                                                                                                                                                                                 | <b>40</b>                   |                                                                                                                      |                         | ft.                                                        |                                                     |
| Water sample sent to                                                                                                                                                                                                                                                                                                              |                             |                                                                                                                      |                         | laboratory on: <b>March 3 19 75</b>                        |                                                     |
| State                                                                                                                                                                                                                                                                                                                             |                             |                                                                                                                      |                         |                                                            |                                                     |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side. |                             |                                                                                                                      |                         |                                                            |                                                     |
| SIGNATURE<br><i>Hoyen Bros. Co. L. Hoyen</i>                                                                                                                                                                                                                                                                                      |                             |                                                                                                                      |                         | COMPLETE MAIL ADDRESS<br><b>R.R.1 Bay City, Wis. 54723</b> |                                                     |
| Registered Well Driller                                                                                                                                                                                                                                                                                                           |                             |                                                                                                                      |                         |                                                            |                                                     |
| Please do not write in space below                                                                                                                                                                                                                                                                                                |                             |                                                                                                                      |                         |                                                            |                                                     |
| COLIFORM TEST RESULT<br><b>1136</b>                                                                                                                                                                                                                                                                                               |                             | GAS - 24 HRS.                                                                                                        |                         | GAS - 48 HRS.                                              |                                                     |
| REV. 3-71                                                                                                                                                                                                                                                                                                                         |                             |                                                                                                                      |                         | CONFIRMED                                                  |                                                     |
|                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                      |                         | REMARKS<br><b>231 P.T.</b><br><b>2149039</b>               |                                                     |



# WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH See Instructions on Reverse Side

1. County Burnette Town ☒ Daniels  
Village ☐  
City ☐ Check one and give name
2. Location SW<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> Sec. 23 Tnp. 38N. R. 17W  
 Name of street and number of premise or Section, Town and Range numbers
3. Owner ☒ or Agent ☐ Otto Kollander  
 Name of individual, partnership or firm
4. Mail Address Siren, Wisconsin  
 Complete address required
5. From well to nearest: Building 3 ft; sewer - ft; drain - ft; septic tank - ft;  
 dry well or filter bed - ft; abandoned well - ft.
6. Well is intended to supply water for: Household

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 4          | 0          | 101      |            |            |          |
|            |            |          |            |            |          |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight              | From (ft.) | To (ft.) |
|------------|------------------------------|------------|----------|
| 4          | 11# steel                    | 1          | 98       |
|            | 2" x 54' Johnson drive point |            |          |
|            | 12 slot                      |            |          |

## 9. GROUT:

| Kind | From (ft.) | To (ft.) |
|------|------------|----------|
|      |            |          |
|      |            |          |

## 11. MISCELLANEOUS DATA:

Yield test: 1 Hrs. at 5 GPM.  
 Depth from surface to water-level: 70 ft.  
 Water-level when pumping: 20 ft.  
 Water sample was sent to the state laboratory at:  
Madison on November 4 1958  
 City

## 10. FORMATIONS:

| Kind                 | From (ft.) | To (ft.) |
|----------------------|------------|----------|
| silty sand           | 0          | 85       |
| very fine sand       | 85         | 90       |
| very fine silty sand | 90         | 97       |
| clean fine sand      | 97         | 101      |
| RECEIVED             |            |          |
| NOV 12 1958          |            |          |
| ENVIRONMENTAL        |            |          |
| SANITATION           |            |          |

Construction of the well was completed on:

November 3, 1958

The well is terminated eight inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐

Signature

Wm. K. Beecroft  
 Registered Well Driller

Beecroft Bros., Clam Falls, Wis.  
 Complete Mail Address

Rec'd

NOV 5 - 1958

No.

Ans'd

Interpretation

**SAFE**

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs.

48 hrs.

Confirm

B. Coli

Examiner

2949047

## WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County

Burnett  
NE, NE sec 24Town ☒  
Village ☐  
City ☐

Check one and

2. Location

Name of street and number of premise or Section, Town and Range numbers

T38 NR7W

3. Owner ☒ or Agent ☐

Name of individual, partnership or firm

Geo McCanley

4. Mail Address

Linen Wis

Complete address required

5. From well to nearest: Building 5 ft; sewer 70 ft; drain ft; septic tank ft;  
dry well or filter bed ft; abandoned well ft.

6. Well is intended to supply water for: Farm use

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 4          | 1          | 170      |            |            |          |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight | From (ft.) | To (ft.) |
|------------|-----------------|------------|----------|
| 4          | Steel           | 1          | 170      |

## 9. GROUT:

| Kind | From (ft.) | To (ft.) |
|------|------------|----------|
|      |            |          |

## 11. MISCELLANEOUS DATA:

Yield test: Hrs. at GPM.

Depth from surface to water-level: 160 ft.

Water-level when pumping: 9 ft.

Water sample was sent to the state laboratory at:

Madison on Oct 31 1955  
City

## 10. FORMATIONS:

| Kind         | From (ft.) | To (ft.) |
|--------------|------------|----------|
| Sandy gravel | 1          | 150      |
| hard T. Pan  | 150        | 160      |
| gravel       | 160        | 170      |

Construction of the well was completed on:

Oct 25 1955

The well is terminated 12 inches

☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes No No

Was the well sealed watertight upon completion?

Yes Yes No

Signature

Wm. Beech  
Registered Well Driller

Please do not write in space below

Complete Mail Address

Olan Falls Wis

Rec'd No.

Ans'd

Interpretation

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs.

48 hrs.

Confirm

B. Coli

Examiner



WELL CONSTRUCTOR'S REPORT  
FORM 3300-15

AUG 7 1975

NOTE  
WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

|                                                                                                          |                     |                                                                                                                      |                         |                      |                                                 |
|----------------------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|-------------------------------------------------|
| 1. COUNTY <b>BURNETT</b>                                                                                 |                     | CHECK ONE<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |                         | NAME <b>DANIELS</b>  |                                                 |
| 2. LOCATION - 1/4 Section <b>NW-NW</b> Section <b>26</b> Township <b>38N</b> Range <b>17W</b>            |                     | 3. OWNER AT TIME OF DRILLING<br><b>KENNETH STONER</b>                                                                |                         |                      |                                                 |
| OR - Grid or street no.                                                                                  |                     | Street name                                                                                                          |                         | ADDRESS              |                                                 |
| AND - If available subdivision name, lot & block no.                                                     |                     | POST OFFICE<br><b>SIREN, WI.</b>                                                                                     |                         |                      |                                                 |
| 4. Distance in feet from well to nearest:<br>(Record answer in appropriate block)                        |                     | BUILDING<br>C. I.                                                                                                    | SANITARY SEWER<br>C. I. | FLOOR DRAIN<br>C. I. | FOUNDATION DRAIN<br>SEWER CONNECTED/INDEPENDENT |
|                                                                                                          |                     | <b>4</b>                                                                                                             | <b>22</b>               |                      |                                                 |
| CLEAR WATER DRAIN<br>C. I.                                                                               | SEPTIC TANK<br>TILE | PRIVY                                                                                                                | SEEPAGE PIT             | ABSORPTION FIELD     | BARN                                            |
|                                                                                                          | <b>54</b>           |                                                                                                                      |                         | <b>75</b>            | <b>110</b>                                      |
|                                                                                                          |                     |                                                                                                                      |                         |                      | <b>60</b>                                       |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.) |                     |                                                                                                                      |                         |                      |                                                 |

5. Well is intended to supply water for: **PRIVATE**

| 6. DRILLHOLE                          |                       |            |               |            |          | 9. FORMATIONS |            |            |
|---------------------------------------|-----------------------|------------|---------------|------------|----------|---------------|------------|------------|
| Dia. (in.)                            | From (ft.)            | To (ft.)   | Dia. (in.)    | From (ft.) | To (ft.) | Kind          | From (ft.) | To (ft.)   |
| <b>4</b>                              | Surface               | <b>102</b> |               |            |          | <b>SAND</b>   | Surface    | <b>102</b> |
| 7. CASING, LINER, CURBING, AND SCREEN |                       |            |               |            |          |               |            |            |
| Dia. (in.)                            | Kind and Weight       |            | From (ft.)    | To (ft.)   |          |               |            |            |
| <b>4</b>                              | <b>11# NEW STEEL</b>  |            | Surface       | <b>99</b>  |          |               |            |            |
|                                       | <b>BLK., P.E.</b>     |            |               |            |          |               |            |            |
| <b>4</b>                              | <b>SMITH SCREEN</b>   |            | <b>99 1/2</b> | <b>102</b> |          |               |            |            |
|                                       | <b>S.S., #15 SLOT</b> |            |               |            |          |               |            |            |

| 8. GROUT OR OTHER SEALING MATERIAL |            |          | 10. TYPE OF DRILLING MACHINE USED                       |                                                                  |                                                                                                   |
|------------------------------------|------------|----------|---------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Kind                               | From (ft.) | To (ft.) | <input checked="" type="checkbox"/> Cable Tool          | <input type="checkbox"/> Direct Rotary                           | <input type="checkbox"/> Reverse Rotary                                                           |
|                                    | Surface    |          | <input type="checkbox"/> Rotary - air w/drilling mud    | <input type="checkbox"/> Rotary - hammer with drilling mud & air | <input type="checkbox"/> Jetting with <input type="checkbox"/> Air <input type="checkbox"/> Water |
|                                    |            |          | Well construction completed on <b>5/22</b> <b>19 75</b> |                                                                  |                                                                                                   |

| 11. MISCELLANEOUS DATA                   |           |     | Well is terminated |        | Well disinfected upon completion          |                                | Well sealed watertight upon completion |  |
|------------------------------------------|-----------|-----|--------------------|--------|-------------------------------------------|--------------------------------|----------------------------------------|--|
| Yield test:                              | Hrs. at   | GPM | <b>8</b>           | inches | <input checked="" type="checkbox"/> above | <input type="checkbox"/> below | final grade                            |  |
|                                          | <b>20</b> |     |                    |        | <input checked="" type="checkbox"/> Yes   | <input type="checkbox"/> No    |                                        |  |
| Depth from surface to normal water level | <b>70</b> | ft. |                    |        | <input checked="" type="checkbox"/> Yes   | <input type="checkbox"/> No    |                                        |  |
| Depth to water level when pumping        | <b>80</b> | ft. |                    |        |                                           |                                |                                        |  |

Water sample sent to **MADISON** laboratory on: **5/29** **19 75**

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE **Wm. K. Beecroft** COMPLETE MAIL ADDRESS **Well Drilling and Pumps**  
**Wm. K. Beecroft & Sons**  
**Rt. 2, Box 109**  
**Frederic, Wisconsin 54837**

1139 Please do not write in space below

|                      |               |               |           |                                       |
|----------------------|---------------|---------------|-----------|---------------------------------------|
| COLIFORM TEST RESULT | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS                               |
|                      |               |               |           | <b>2441048</b> <b>2105</b> <b>240</b> |

County Burnett Twp. 37 Range 10 Sec. 27  
Town of Daniels Section 27 T38N R17W

TO THE WISCONSIN STATE BOARD OF HEALTH,  
 WELL DRILLING DIVISION, MADISON, WIS.

# WELL LOG PREMISES DIAGRAM, and REPORT

For Official Record of the Board

(TO BE USED FOR THAT PURPOSE ONLY)

Owner C. A. Peterson Driller Vernon J. Chell  
 (If a joint ownership give name of responsible official. Also name of each individual holding an interest. Use of concrete above and slacks barrels.)  
 Address Frederic, Wis.  
 Address Grantburg, Wis. (City, village, township, county)  
 Date of Report Sept 23 1938  
 Registration No. 123

Give below the location of the property on which well is drilled.

If incorporated village or city: Name Lot Blk. Street and No.  
 If unincorporated hamlet Name County Twp. Highway  
 If Lake Shore Plat Name of Plat Lake Lot Blk. Bureau  
 If Subdivision Name County Twp. Sec. Lot Blk.  
 If Farm Burnett Daniels 37 Town Road  
 County Twp. Sec. Highway  
 If School County Twp. Sec. District  
 If other public building Kind County Twp. Sec.

## WELL LOG and REPORT

| Kind of casing and liner in feet.<br>Kind of shoe. Indicate grout,<br>screen, seal, etc.             | WELL DIAGRAM<br>Vertical Lines = in. Dia.<br>Horizontal Lines = ft. Depth.<br>Use a red line to show casing | Give depth of formations in feet<br>State if dry or water bearing.                                 | Record of<br>FINAL<br>Pumping Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 in. Black Standard<br>Pipe<br>95 ft.<br>Malleable Iron<br>Drive point<br>Hudson Well<br>Seal used. |                                                                                                             | Sand to 30 ft.<br>Sand & gravel to 50 ft.<br>Water Bearing<br>Hard pan to 90 ft.<br>Sand to 95 ft. | Duration of test<br>Hours <u>10</u><br>Pumping Rate<br>G. P. M. <u>4</u><br>Depth of pump in well<br><u>6.0</u><br>Standing water-level<br>(from surface.)<br>Ft. <u>40</u><br>Water level when pumping<br>Ft. <u>45</u><br>Water. End of test. Check.<br>Clear <input checked="" type="checkbox"/><br>Cloudy <input type="checkbox"/><br>Turbid <input type="checkbox"/><br>Was well sterilized before<br>test?<br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Date _____<br>To which Laboratory was<br>sample sent?<br>Date _____<br>Was the well sealed on<br>completion?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>How high did you leave<br>casing above grade?<br><u>8 in.</u><br>Well was completed<br><u>Sept 7</u> 19 <u>38</u><br>Well Driller:<br><u>V. J. Chell</u><br>Signature.<br>(Be sure to complete the<br>report on the reverse side) |

WGNHS ORIGINAL





WELL CONSTRUCTOR'S REPORT  
Form 3300-15  
Rev. 12-76  
2 197

|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  |                                                                                                                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. COUNTY<br><u>Burnett</u>                                                                                                                                                                                                                                            |  | CHECK (✓) ONE:<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |  | Name<br><u>Daniel</u>                                                                                                                            |  |
| 2. LOCATION<br>OR - Grid or Street No. <u>SW SW</u> <u>28</u><br>Street Name                                                                                                                                                                                           |  | Township <u>38N</u> Range <u>17W</u>                                                                                      |  | 3. NAME <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING CHECK (✓) ONE<br><u>Ervin Meyers</u>        |  |
| AND - If available subdivision name, lot & block No.                                                                                                                                                                                                                   |  | ADDRESS<br><u>Rt 1</u><br>POST OFFICE<br><u>Siren, Wisconsin</u>                                                          |  |                                                                                                                                                  |  |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block)                                                                                                                                                                                         |  | Building <u>4</u>                                                                                                         |  | Sanitary Bldg. Drain C.I. Other                                                                                                                  |  |
|                                                                                                                                                                                                                                                                        |  | Sanitary Bldg. Sewer C.I. Other                                                                                           |  | Floor Drain Connected To: C.I. Sewer Other Sewer                                                                                                 |  |
|                                                                                                                                                                                                                                                                        |  | Storm Bldg. Drain C.I. Other                                                                                              |  | Storm Bldg. Sewer C.I. Other                                                                                                                     |  |
| Street Sewer San. Storm                                                                                                                                                                                                                                                |  | Other Sewers C.I. Other                                                                                                   |  | Foundation Drain Connected to: Sewer Clearwater Dr. Sewage Sump Clearwater Sump                                                                  |  |
|                                                                                                                                                                                                                                                                        |  | Sewage Sump C.I. Other                                                                                                    |  | Clearwater Sump Septic Tank Holding Tank                                                                                                         |  |
| Sewage Absorption Unit: Seepage Pit Seepage Bed Seepage Trench                                                                                                                                                                                                         |  |                                                                                                                           |  |                                                                                                                                                  |  |
| Privy Pet Waste Pit                                                                                                                                                                                                                                                    |  | Pit: Nonconforming Existing well Pump Tank                                                                                |  | Subsurface Pumphoom Nonconforming Existing                                                                                                       |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  | Barn Gutter Animal Barn Pen Animal Yard Silo With Pit Glass Lined Storage Facility Silo w/o Pit Earthen Silage Storage Trench Or Pit             |  |
| Temporary Manure Stack                                                                                                                                                                                                                                                 |  | Watertight Liquid Manure Tank                                                                                             |  | Solid Manure Storage Structure                                                                                                                   |  |
|                                                                                                                                                                                                                                                                        |  | Subsurface Gasoline or Oil Tank                                                                                           |  | Waste Pond or Land Disposal Unit (Specify Type)                                                                                                  |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  | Other (Give Description)                                                                                                                         |  |
| 5. Well is intended to supply water for:<br><u>Home</u>                                                                                                                                                                                                                |  |                                                                                                                           |  | 9. FORMATIONS                                                                                                                                    |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  | Kind From (ft.) To (ft.)                                                                                                                         |  |
| 6. DRILLHOLE                                                                                                                                                                                                                                                           |  |                                                                                                                           |  | <u>Sand &amp; GRAVEL</u>                                                                                                                         |  |
| Dia. (in.) From (ft.) To (ft.) Dia. (in.) From (ft.) To (ft.)                                                                                                                                                                                                          |  |                                                                                                                           |  | Surface <u>93</u>                                                                                                                                |  |
| <u>4</u> <u>Surface</u> <u>93</u>                                                                                                                                                                                                                                      |  |                                                                                                                           |  |                                                                                                                                                  |  |
| 7. CASING, LINER, CURBING AND SCREEN                                                                                                                                                                                                                                   |  |                                                                                                                           |  |                                                                                                                                                  |  |
| Material, Weight, Specification & Method of Assembly                                                                                                                                                                                                                   |  |                                                                                                                           |  | From (ft.) To (ft.)                                                                                                                              |  |
| <u>4</u> <u>10.79 New bln</u> <u>Steel, welded</u>                                                                                                                                                                                                                     |  |                                                                                                                           |  | Surface <u>89</u>                                                                                                                                |  |
| <u>4</u> <u>Screen</u>                                                                                                                                                                                                                                                 |  |                                                                                                                           |  | <u>89</u> <u>93</u>                                                                                                                              |  |
| <u>A-53 Valley Steel</u>                                                                                                                                                                                                                                               |  |                                                                                                                           |  |                                                                                                                                                  |  |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                     |  |                                                                                                                           |  | 10. TYPE OF DRILLING MACHINE USED                                                                                                                |  |
| Kind From (ft.) To (ft.)                                                                                                                                                                                                                                               |  |                                                                                                                           |  | <input checked="" type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary-hammer w/drilling mud & air <input type="checkbox"/> Jetting with |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  | <input type="checkbox"/> Rotary-air w/drilling mud <input type="checkbox"/> Rotary-hammer & air <input type="checkbox"/> Air                     |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                           |  | <input type="checkbox"/> Rotary-w/drilling mud <input type="checkbox"/> Reverse Rotary <input type="checkbox"/> Water                            |  |
| Surface                                                                                                                                                                                                                                                                |  |                                                                                                                           |  |                                                                                                                                                  |  |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                 |  |                                                                                                                           |  | Well construction completed on <u>3-7</u> 19 <u>79</u>                                                                                           |  |
| Yield Test: <u>1/2</u> Hrs. at <u>25</u> GPM                                                                                                                                                                                                                           |  |                                                                                                                           |  | Well is terminated <u>8</u> inches <input checked="" type="checkbox"/> above final grade <input type="checkbox"/> below                          |  |
| Depth from surface to normal water level <u>50</u> Ft.                                                                                                                                                                                                                 |  |                                                                                                                           |  | Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                             |  |
| Depth of water level when pumping <u>95</u> Ft. Stabilized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                         |  |                                                                                                                           |  | Well sealed watertight upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                       |  |
| Water sample sent to <u>Madison</u> laboratory on <u>3-19</u> 19 <u>79</u>                                                                                                                                                                                             |  |                                                                                                                           |  |                                                                                                                                                  |  |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side. |  |                                                                                                                           |  | CLARENCE BEECROFT AND SONS                                                                                                                       |  |
| Signature <u>C. Clarence Beecroft</u>                                                                                                                                                                                                                                  |  |                                                                                                                           |  | Well Drillers<br>Route 2 Box 108<br>Frederic, Wis. 54837                                                                                         |  |
| 1142 Registered Well Driller                                                                                                                                                                                                                                           |  |                                                                                                                           |  | Complete Mail Address                                                                                                                            |  |



OCT 29 1973

WELL CONSTRUCTOR'S REPORT  
FORM 3300-15STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701

## NOTE

WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

|                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------|
| 1. COUNTY <u>BURNETT</u>                                                                                                                                                                                                                                                                                                          |                                           | CHECK ONE<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City |                                                                                                                                                                                                                                                                                                                                 | NAME <u>DANIELS</u>                                              |                        |
| 2. LOCATION - 1/4 Section <u>SE-SW</u> Section <u>29</u> Township <u>38N</u> Range <u>17W</u>                                                                                                                                                                                                                                     |                                           | 3. OWNER AT TIME OF DRILLING<br><u>DAN GOODREMAOT</u>                                                                |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| OR - Grid or street no.                                                                                                                                                                                                                                                                                                           |                                           | Street name                                                                                                          |                                                                                                                                                                                                                                                                                                                                 | ADDRESS<br><u>SIREN</u>                                          |                        |
| AND - If available subdivision name, lot & block no.                                                                                                                                                                                                                                                                              |                                           | POST OFFICE<br><u>WI</u>                                                                                             |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| 4. Distance in feet from well to nearest:                                                                                                                                                                                                                                                                                         |                                           | BUILDING C. I. <u>30</u>                                                                                             |                                                                                                                                                                                                                                                                                                                                 | SANITARY SEWER TILE <u>45</u>                                    |                        |
| (Record answer in appropriate block)                                                                                                                                                                                                                                                                                              |                                           | FLOOR DRAIN C. I. <u>  </u> TILE <u>  </u>                                                                           |                                                                                                                                                                                                                                                                                                                                 | FOUNDATION DRAIN SEWER CONNECTED <u>  </u> INDEPENDENT <u>  </u> |                        |
| CLEAR WATER DRAIN C. I. <u>  </u> TILE <u>  </u>                                                                                                                                                                                                                                                                                  |                                           | SEPTIC TANK <u>70</u>                                                                                                |                                                                                                                                                                                                                                                                                                                                 | PRIVY <u>  </u>                                                  |                        |
| SEEPAGE PIT <u>90</u>                                                                                                                                                                                                                                                                                                             |                                           | ABSORPTION FIELD <u>  </u>                                                                                           |                                                                                                                                                                                                                                                                                                                                 | BARN <u>  </u> SILO <u>  </u>                                    |                        |
| ABANDONED WELL <u>  </u>                                                                                                                                                                                                                                                                                                          |                                           | SINK HOLE <u>  </u>                                                                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)                                                                                                                                                                                                                          |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| 5. Well is intended to supply water for: <u>PRIVATE</u>                                                                                                                                                                                                                                                                           |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| 6. DRILLHOLE                                                                                                                                                                                                                                                                                                                      |                                           |                                                                                                                      | 9. FORMATIONS                                                                                                                                                                                                                                                                                                                   |                                                                  |                        |
| Dia. (in.)                                                                                                                                                                                                                                                                                                                        | From (ft.)                                | To (ft.)                                                                                                             | Dia. (in.)                                                                                                                                                                                                                                                                                                                      | From (ft.)                                                       | To (ft.)               |
| <u>4</u>                                                                                                                                                                                                                                                                                                                          | Surface                                   | <u>80</u>                                                                                                            |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
|                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| 7. CASING, LINER, CURBING, AND SCREEN                                                                                                                                                                                                                                                                                             |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| Dia. (in.)                                                                                                                                                                                                                                                                                                                        | Kind and Weight                           | From (ft.)                                                                                                           | To (ft.)                                                                                                                                                                                                                                                                                                                        |                                                                  |                        |
| <u>4</u>                                                                                                                                                                                                                                                                                                                          | <u>1 1/2" NEW STEEL, BLK., T-C.</u>       | Surface                                                                                                              | <u>78</u>                                                                                                                                                                                                                                                                                                                       |                                                                  |                        |
| <u>4</u>                                                                                                                                                                                                                                                                                                                          | <u>JOHNSON SCREEN, S. STEEL, #18 SLOT</u> | <u>76 3/4</u>                                                                                                        | <u>80</u>                                                                                                                                                                                                                                                                                                                       |                                                                  |                        |
|                                                                                                                                                                                                                                                                                                                                   |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                                                                                |                                           |                                                                                                                      | 10. TYPE OF DRILLING MACHINE USED                                                                                                                                                                                                                                                                                               |                                                                  |                        |
| Kind                                                                                                                                                                                                                                                                                                                              | From (ft.)                                | To (ft.)                                                                                                             | <input checked="" type="checkbox"/> Cable Tool <input type="checkbox"/> Direct Rotary <input type="checkbox"/> Reverse Rotary<br><input type="checkbox"/> Rotary - air w/drilling mud <input type="checkbox"/> Rotary - hammer with drilling mud & air <input type="checkbox"/> Jetting with Air <input type="checkbox"/> Water |                                                                  |                        |
|                                                                                                                                                                                                                                                                                                                                   | Surface                                   |                                                                                                                      | Well construction completed on <u>Sept. 18</u> 19 <u>73</u>                                                                                                                                                                                                                                                                     |                                                                  |                        |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                                                                            |                                           |                                                                                                                      | Well is terminated <u>8</u> inches <input checked="" type="checkbox"/> above <input type="checkbox"/> below final grade                                                                                                                                                                                                         |                                                                  |                        |
| Yield test:                                                                                                                                                                                                                                                                                                                       | Hrs. at <u>20</u>                         | GPM <u>  </u>                                                                                                        | Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                            |                                                                  |                        |
| Depth from surface to normal water level                                                                                                                                                                                                                                                                                          | <u>45</u>                                 | ft.                                                                                                                  | Well sealed watertight upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                      |                                                                  |                        |
| Depth to water level when pumping                                                                                                                                                                                                                                                                                                 | <u>70</u>                                 | ft.                                                                                                                  |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| Water sample sent to <u>MADISON</u>                                                                                                                                                                                                                                                                                               |                                           |                                                                                                                      | laboratory on: <u>Sept. 13 and 24</u> 19 <u>73</u>                                                                                                                                                                                                                                                                              |                                                                  |                        |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side. |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| SIGNATURE <u>Wm. K. Beecroft</u><br>Registered Well Driller                                                                                                                                                                                                                                                                       |                                           |                                                                                                                      | COMPLETE MAIL ADDRESS <u>WM. K. BEECROFT &amp; SONS</u><br><u>Well Drilling and Pumps</u><br><u>Rt. 2, Box 109</u><br><u>Frederic, Wisconsin 54837</u>                                                                                                                                                                          |                                                                  |                        |
| Please do not write in space below                                                                                                                                                                                                                                                                                                |                                           |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                 |                                                                  |                        |
| COLIFORM TEST RESULT                                                                                                                                                                                                                                                                                                              |                                           | GAS - 24 HRS.                                                                                                        | GAS - 48 HRS.                                                                                                                                                                                                                                                                                                                   | CONFIRMED                                                        | REMARKS <u>861 out</u> |

State of Wisconsin  
Department of Natural Resources  
Box 450  
Madison, Wisconsin 53701

JUN 7 1976

NOTE:

White Copy - Division's Copy  
Green Copy - Driller's Copy  
Yellow Copy - Owner's Copy

WELL CONSTRUCTOR'S REPORT  
Form 3300-15  
Rev. 10-75

|                                                                                                                                                                                                                                                                        |  |                                                                                                                                              |  |                                                                           |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|
| 1. COUNTY <u>Burnett</u>                                                                                                                                                                                                                                               |  | CHECK (✓) ONE:<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City                    |  | Name <u>Danals</u>                                                        |  |
| 2. LOCATION<br>1/4 Section <u>28</u> Section <u>38N</u> Township <u>17W</u><br>OR - Grid or Street No. <u>NE, NE</u> Street Name <u>529</u><br>AND - If available subdivision name, lot & block No.                                                                    |  | 3. NAME <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING CHECK (✓) ONE<br><u>Melvin Peterson</u> |  | ADDRESS <u>1112 W 55 St 55419</u><br>POST OFFICE <u>Minneapolis, Minn</u> |  |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block)                                                                                                                                                                                         |  | Building <u>4</u>                                                                                                                            |  | Sanitary Bldg. Drain C.I. Other                                           |  |
| San. Street Sewer                                                                                                                                                                                                                                                      |  | Other Sewers C.I. Other                                                                                                                      |  | Foundation Drain Connected to Sewage Sump C.I. Other                      |  |
| Pet Waste Pit                                                                                                                                                                                                                                                          |  | Pit: Nonconforming Existing Well Pump Tank                                                                                                   |  | Subsurface Improvements Nonconforming Existing                            |  |
| Temporary Manure Stack                                                                                                                                                                                                                                                 |  | Watertight Liquid Manure Tank                                                                                                                |  | Solid Manure Storage Structure                                            |  |
| Subsurface Gasoline or Oil Tank                                                                                                                                                                                                                                        |  | Waste Pond or Land Disposal Unit (Specify Type)                                                                                              |  | Other (Give Description)                                                  |  |
| 5. Well is intended to supply water for: <u>home</u>                                                                                                                                                                                                                   |  | 9. FORMATIONS                                                                                                                                |  |                                                                           |  |
| 6. DRILLHOLE                                                                                                                                                                                                                                                           |  | Kind                                                                                                                                         |  |                                                                           |  |
| Dia. (in.) From (ft.) To (ft.)                                                                                                                                                                                                                                         |  | From (ft.) To (ft.)                                                                                                                          |  |                                                                           |  |
| 8 Surface 15 4 15 73                                                                                                                                                                                                                                                   |  | Clay 15 73<br>sand & gravel                                                                                                                  |  |                                                                           |  |
| 7. CASING, LINER, CURBING AND SCREEN                                                                                                                                                                                                                                   |  | Material, Weight, Specification & Method of Assembly                                                                                         |  |                                                                           |  |
| Dia. (in.) From (ft.) To (ft.)                                                                                                                                                                                                                                         |  | From (ft.) To (ft.)                                                                                                                          |  |                                                                           |  |
| 4 10.79 New blk steel Weld J.S.C. A120                                                                                                                                                                                                                                 |  | Surface 69                                                                                                                                   |  |                                                                           |  |
| 4 screen 69 73                                                                                                                                                                                                                                                         |  | 73                                                                                                                                           |  |                                                                           |  |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                     |  | Type of Drilling Machine Used                                                                                                                |  |                                                                           |  |
| Kind From (ft.) To (ft.)                                                                                                                                                                                                                                               |  | Cable Tool Rotary-hammer w/drilling mud & air Jetting with                                                                                   |  |                                                                           |  |
| drill cuttings Surface 15                                                                                                                                                                                                                                              |  | Rotary-air w/drilling mud Rotary-hammer & air Air                                                                                            |  |                                                                           |  |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                 |  | Rotary-w/drilling mud Reverse Rotary Water                                                                                                   |  |                                                                           |  |
| Yield Test: 1 Hrs. at 30 GPM                                                                                                                                                                                                                                           |  | Well construction completed on 5-25 1976                                                                                                     |  |                                                                           |  |
| Depth from surface to normal water level 20 Ft.                                                                                                                                                                                                                        |  | Well is terminated 8 inches above final grade                                                                                                |  |                                                                           |  |
| Depth of water level when pumping 45 Ft. Stabilized Yes No                                                                                                                                                                                                             |  | Well disinfected upon completion Yes No                                                                                                      |  |                                                                           |  |
| Water sample sent to Madison laboratory on 6-1 1976                                                                                                                                                                                                                    |  | Well sealed watertight upon completion Yes No                                                                                                |  |                                                                           |  |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side. |  | CLARENCE BEECROFT AND SONS 236                                                                                                               |  |                                                                           |  |
| Signature <u>Clarence Beecroft</u> Registered Well Driller                                                                                                                                                                                                             |  | Complete Mail Address<br>Well Drillers 2949044<br>Route 2 Box 108<br>Frederic, Wis. 54837                                                    |  |                                                                           |  |



# WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Burnett Town ☐ Danvers  
 Village ☒ St. John  
 City ☐ Check one and give name
2. Location S.W. 1/4 Sec 30 T. 35 N. R. 17 W.  
 Name of street and number of premise or Section, Town and Range numbers
3. Owner ☒ or Agent ☐ E. W. Dresher  
 Name of individual, partnership or firm
4. Mail Address Granitaburg R. 1 Wis.  
 Complete address required
5. From well to nearest: Building 10 ft; sewer 50 ft; drain 60 ft; septic tank none ft;  
 dry well or filter bed 70 ft; abandoned well none ft.
6. Well is intended to supply water for: Resident

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 8          | 0          | 22       | 4          | 0          | 77       |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight | From (ft.) | To (ft.) |
|------------|-----------------|------------|----------|
| 4          | Std. Pipe       | 1 above    | 77       |

## 9. GROUT:

| Kind                                     | From (ft.) | To (ft.) |
|------------------------------------------|------------|----------|
| <u>Drilled Clay &amp; drill Cuttings</u> | 0          | 22       |

## 11. MISCELLANEOUS DATA:

Yield test: 10 Hrs. at 5 GPM.  
 Depth from surface to water-level: 36 ft.  
 Water-level when pumping: 40 ft.  
 Water sample was sent to the state laboratory at:  
 \_\_\_\_\_ on \_\_\_\_\_ 19\_\_\_\_  
 City

## 10. FORMATIONS:

| Kind                   | From (ft.) | To (ft.) |
|------------------------|------------|----------|
| <u>Top soil</u>        | 0          | 2        |
| <u>Hard pan</u>        | 2          | 10       |
| <u>Clay</u>            | 10         | 15       |
| <u>Clay &amp; sand</u> | 15         | 20       |
| <u>Sand fine</u>       | 20         | 30       |
| <u>Sand fine</u>       | 30         | 45       |
| <u>Clay &amp; sand</u> | 45         | 70       |
| <u>Gravel</u>          | 70         | 77       |

Construction of the well was completed on:

Jan 4 1961

The well is terminated 10 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐

Signature Virgil Chell  
 Registered Well Driller

Frederic A. Wier  
 Complete Mail Address

Please do not write in space below

**RECEIVED**

Rec'd JAN 11 1961 No. 1157

Ans'd \_\_\_\_\_

Interpretation \_\_\_\_\_

**SAFE—BACTERIOLOGICALLY**

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs. JAN 17 1961

48 hrs. \_\_\_\_\_

Confirm **SANITARY ENGINEERING**

B. Coli 6

Examiner \_\_\_\_\_

2948018

118 plot

## INSTRUCTIONS

ALL INFORMATION INDICATED ON THE FACE OF THIS FORM MUST BE GIVEN

PLEASE BE GUIDED BY THE FOLLOWING:

Numbers below correspond to numbers of items of the form on the opposite side.

1. Name of the County and the name of the Town, Village or City. Indicate which is given.
2. If Rural: Number and the  $\frac{1}{4}$  of the Section, the number of the Town North, and the number of the Range East or West.  
If Urban: Name of the Street and the number of the Premise.
3. Name of the Owner. If the name of the owner cannot be given, give instead the name of the Agent. Indicate which is given.
4. Name of the Street and the number of the Premise or the number of the Mail Route, the name of the Post Office and the name of the State.
5. Distance, in feet, from the well to the nearest building and to each source of pollution shown.
6. Indicate: Home, farm, school, tavern, creamery, community, industry, etc.
7. Show the diameter and depth of the initial drillhole or excavation and each reduction in size to bottom. If well was reconstructed, show diameter and depth of original well on first line.
8. Show diameter and kind of casing pipe, liner pipe or curbing and actual position in the well, measured from the surface.
9. Show kind of material (mud or cement) used in sealing the annular space, from and to what depths from the surface. If neither was used indicate "none".
10. Show thickness of each formation and the total depth at the base thereof.
11. Provide the data indicated.

Note: The Well Construction Report (Well Log) may be forwarded with the water sample from a newly constructed or reconstructed well, instead of the report requested by the State Laboratory of Hygiene, on the form which accompanies the sample bottle.

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., may be given here:

No pollution hazards No nearby wells. Screen casing joints. Clay & drill cutting well tarped for grouting. No blasting. No pumprooms or pits. Casing 18" above ground level.

If more space is needed another sheet may be attached.



Rev. 12-74

Rev. 12-76  
NOV 27 1979

Signature \_\_\_\_\_

~~CLARENCE BEECROFT AND SONS~~

**Well Drillers**  
Route 2 Box 108  
Frederic, Wis. 54837

Registered Well Driller

2848006 plot 705

## WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

Wel 6

See Instructions on Reverse Side

1. County Burnett {Town ☒ Danville  
Village ☐  
City ☐ Check one and give name2. Location N.W. 1/4 of Sec 30 T. 38 N. R. 17 W.  
Name of street and number of premise or Section, Town and Range numbers3. Owner ☒ or Agent ☐ Hilda Prueger Drexler  
Name of individual, partnership or firm4. Mail Address Shanaburg Wis.  
Complete address required5. From well to nearest: Building 60 ft; sewer 20 ft; drain 110 ft; septic tank 90 ft;  
dry well or filter bed none ft; abandoned well none ft.

JUN 22 1961

6. Well is intended to supply water for: Home

## 7. DRILLHOLE:

| Dis. (in.) | From (ft.) | To (ft.) | Dis. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 5          | 0          | 22       | 4          | 1          | 49       |

## 8. CASING AND LINER PIPE OR CURBING:

| Dis. (in.) | Kind and Weight | From (ft.) | To (ft.) |
|------------|-----------------|------------|----------|
| 4          | Std. Pipe       | 1          | 49       |

## 9. GROUT:

| Kind                  | From (ft.) | To (ft.) |
|-----------------------|------------|----------|
| Clay & drill Cuttings | 0          | 22       |

## 11. MISCELLANEOUS DATA:

Yield test: 6 Hrs. at 5 GPM.Depth from surface to water-level: 20 ft.Water-level when pumping: 22 ft.

Water sample was sent to the state laboratory at:

Madison on June 14 1961  
City

## 10. FORMATIONS:

## SANITARY ENGINEERING

| Kind        | From (ft.) | To (ft.) |
|-------------|------------|----------|
| Top Soil    | 0          | 3        |
| Clay        | 3          | 10       |
| Sand & Clay | 10         | 18       |
| Sand        | 18         | 30       |
| Sand & Clay | 30         | 35       |
| Sand        | 35         | 40       |
| Gravel      | 40         | 49       |

Construction of the well was completed on:

Jan 20 1961The well is terminated 10 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐Signature Urban Chell & Sons Franklin R. Wis.  
Registered Well Driller Complete Mail Address

Please do not write in space below

Rec'd. JUN 15 1961 No. 20438

Ans'd \_\_\_\_\_

Interpretation \_\_\_\_\_

UNSAFE—BACTERIOLOGICALLY

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs. +

48 hrs. \_\_\_\_\_

Confirm +B. Coli +

Examiner \_\_\_\_\_



APR 12 1979

|                                                                                                                                                                                                                                                                        |  |                                                                                                                                           |  |                                                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------|--|
| 1. COUNTY <u>Burnett</u>                                                                                                                                                                                                                                               |  | CHECK (✓) ONE:<br><input checked="" type="checkbox"/> Town <input type="checkbox"/> Village <input type="checkbox"/> City                 |  | Name <u>Daniels</u>                                                                                  |  |
| 2. LOCATION <u>W2</u> Section <u>31</u> Township <u>38N</u> Range <u>17W</u>                                                                                                                                                                                           |  | 3. NAME <input checked="" type="checkbox"/> OWNER <input type="checkbox"/> AGENT AT TIME OF DRILLING CHECK (✓) ONE<br><u>Ray Wicklund</u> |  |                                                                                                      |  |
| OR - Grid or Street No. Street Name                                                                                                                                                                                                                                    |  | ADDRESS <u>Rt. 1</u>                                                                                                                      |  |                                                                                                      |  |
| AND - If available subdivision name, lot & block No.                                                                                                                                                                                                                   |  | POST OFFICE <u>Grantsburg, Wis.</u>                                                                                                       |  |                                                                                                      |  |
| 4. Distance in feet from well to nearest: (Record answer in appropriate block)                                                                                                                                                                                         |  | Building <u>9</u>                                                                                                                         |  | Sanitary Bldg. Drain C.I. Other                                                                      |  |
|                                                                                                                                                                                                                                                                        |  | Sanitary Bldg. Sewer C.I. Other <u>18</u>                                                                                                 |  | Floor Drain Connected To: C.I. Sewer Other Sewer                                                     |  |
|                                                                                                                                                                                                                                                                        |  | Storm Bldg. Drain C.I. Other                                                                                                              |  | Storm Bldg. Sewer C.I. Other                                                                         |  |
| Street Sewer San. Storm                                                                                                                                                                                                                                                |  | Other Sewers C.I. Other                                                                                                                   |  | Foundation Drain Connected to: Sewer Sewage Sump Clearwater Dr. Clearwater Sump                      |  |
|                                                                                                                                                                                                                                                                        |  | Sewage Sump C.I. Other                                                                                                                    |  | Septic Tank Holding Tank                                                                             |  |
|                                                                                                                                                                                                                                                                        |  | Sewage Absorption Unit Seepage Pit Seepage Bed Seepage Trench <u>78</u>                                                                   |  |                                                                                                      |  |
| Privy Pet Waste Pit                                                                                                                                                                                                                                                    |  | Pit: Nonconforming Existing Well Pump Tank                                                                                                |  | Subsurface Pumproom Nonconforming Existing                                                           |  |
|                                                                                                                                                                                                                                                                        |  | Barn Gutter Animal Barn Pen Animal Yard Silo With Pit Glass Lined Storage Facility Silo w/o Pit Earthen Silage Storage Trench Or Pit      |  |                                                                                                      |  |
| Temporary Manure Stack                                                                                                                                                                                                                                                 |  | Watertight Liquid Manure Tank Solid Manure Storage Structure                                                                              |  | Subsurface Gasoline or Oil Tank Waste Pond or Land Disposal Unit (Specify Type)                      |  |
|                                                                                                                                                                                                                                                                        |  | Other (Give Description) <u>None</u>                                                                                                      |  |                                                                                                      |  |
| 5. Well is intended to supply water for: <u>private residence</u>                                                                                                                                                                                                      |  | 9. FORMATIONS                                                                                                                             |  |                                                                                                      |  |
| 6. DRILLHOLE                                                                                                                                                                                                                                                           |  | Dia. (in.)                                                                                                                                |  | From (ft.) To (ft.)                                                                                  |  |
| Dia. (in.)                                                                                                                                                                                                                                                             |  | From (ft.) To (ft.)                                                                                                                       |  | Kind                                                                                                 |  |
| <u>8</u>                                                                                                                                                                                                                                                               |  | <u>Surface</u> <u>20</u>                                                                                                                  |  | <u>clay</u>                                                                                          |  |
| <u>4</u>                                                                                                                                                                                                                                                               |  | <u>20</u> <u>140</u>                                                                                                                      |  | <u>clay &amp; sand</u>                                                                               |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                                           |  | <u>sand</u>                                                                                          |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                                           |  | <u>gravel + R. clay</u>                                                                              |  |
|                                                                                                                                                                                                                                                                        |  |                                                                                                                                           |  | <u>gravel</u>                                                                                        |  |
| 7. CASING, LINER, CURBING AND SCREEN                                                                                                                                                                                                                                   |  | Material, Weight, Specification & Method of Assembly                                                                                      |  | From (ft.) To (ft.)                                                                                  |  |
| Dia. (in.)                                                                                                                                                                                                                                                             |  | From (ft.) To (ft.)                                                                                                                       |  |                                                                                                      |  |
| <u>4</u>                                                                                                                                                                                                                                                               |  | <u>new std. B.R. T&amp;C</u>                                                                                                              |  | <u>Surface</u> <u>136</u>                                                                            |  |
| <u>4</u>                                                                                                                                                                                                                                                               |  | <u>pipe 1 1/2" / ft.</u>                                                                                                                  |  |                                                                                                      |  |
| <u>4</u>                                                                                                                                                                                                                                                               |  | <u>Johnson S.S.</u>                                                                                                                       |  | <u>136</u> <u>140</u>                                                                                |  |
| <u>4</u>                                                                                                                                                                                                                                                               |  | <u>#18 bit well screen</u>                                                                                                                |  |                                                                                                      |  |
| 8. GROUT OR OTHER SEALING MATERIAL                                                                                                                                                                                                                                     |  | Kind                                                                                                                                      |  | From (ft.) To (ft.)                                                                                  |  |
|                                                                                                                                                                                                                                                                        |  | <u>clay slurry</u>                                                                                                                        |  | <u>Surface</u> <u>20</u>                                                                             |  |
| 11. MISCELLANEOUS DATA                                                                                                                                                                                                                                                 |  | Yield Test: <u>3</u> Hrs. at <u>15</u> GPM                                                                                                |  | Well construction completed on <u>3-30</u> 19 <u>79</u>                                              |  |
| Depth from surface to normal water level <u>27</u> Ft.                                                                                                                                                                                                                 |  | Well is terminated <u>10</u> inches <input type="checkbox"/> above final grade <input type="checkbox"/> below                             |  | Well disinfected upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |
| Depth of water level when pumping <u>35</u> Ft. Stabilized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                         |  | Well sealed watertight upon completion <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                |  |                                                                                                      |  |
| Water sample sent to <u>Madison</u> laboratory on <u>4-8</u> 19 <u>79</u>                                                                                                                                                                                              |  |                                                                                                                                           |  |                                                                                                      |  |
| Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side. |  |                                                                                                                                           |  |                                                                                                      |  |
| Signature <u>Donald Chell</u>                                                                                                                                                                                                                                          |  | Complete Mail Address <u>Rt. 3 Frederic, Wis. 54837</u>                                                                                   |  |                                                                                                      |  |

Registered Well Driller

2848008

**WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH**  
See Instructions on Reverse Side

OCT 6 1947

1. County Burnett Town Daniels  
 E<sup>2</sup>, SW, Sec. 32 City Daniels  
 2. Location S.E. of S.E. 1/4 Sec. 35 T. 38 N. R. 17 W. T38N  
 3. Owner or Agent Clarence Moline  
 4. Address Siren  
 5. From well to nearest: Building 60 ft; sewer none ft; drain 75 ft; septic tank none ft;  
 dry well or filter bed none ft; abandoned well 300 ft.  
 6. Well is intended to supply water for: Dairy Farm

**7. DRILLHOLE OR EXCAVATION:**

| Dia. (in.)  | From (ft.) | To (ft.) |
|-------------|------------|----------|
| <u>none</u> |            |          |
|             |            |          |
|             |            |          |

**8. CASING AND LINER PIPE OR CURBING:**

| Dia. (in.) | Kind                   | From (ft.) | To (ft.)  |
|------------|------------------------|------------|-----------|
| <u>4"</u>  | <u>Std. Black Pipe</u> | <u>0</u>   | <u>74</u> |
|            |                        |            |           |
|            |                        |            |           |

**9. GROUT:**

| Kind        | From (ft.) | To (ft.) |
|-------------|------------|----------|
| <u>none</u> |            |          |
|             |            |          |
|             |            |          |

**10. FORMATIONS:**

| Kind                         | Thick-ness (ft.) | Total Depth (ft.) |
|------------------------------|------------------|-------------------|
| <u>Sandy Clay</u>            | <u>2</u>         | <u>2</u>          |
| <u>Sand</u>                  | <u>30</u>        | <u>32</u>         |
| <u>Gravel</u>                | <u>18</u>        | <u>50</u>         |
| <u>Clay &amp; sand</u>       | <u>20</u>        | <u>70</u>         |
| <u>Gravel</u>                | <u>4</u>         | <u>74</u>         |
| <u>gravel bottom</u>         |                  |                   |
| <u>much iron near bottom</u> |                  |                   |
|                              |                  |                   |
|                              |                  |                   |

**11. MISCELLANEOUS DATA:**

Yield test: 5 Hrs. at 4 GPM.

Depth from surface to water: 15 ft.

Water-level when pumping: 30 ft.

Water sample sent to laboratory at

Superior on July 20 1946

Signature

V.A. Chell  
Registered Well Driller

Construction of the well was completed on

July 19 1946

The well is terminated 12 inches (above) (below) the permanent grade.

Was the well disinfected upon completion?

Yes X No

Was the well sealed watertight upon completion?

Yes X No

Frederic Wis  
Complete Mail Address



## WELL CONSTRUCTOR'S REPORT

STATE OF WISCONSIN

## DEPARTMENT OF RESOURCE DEVELOPMENT

Well 6

1. COUNTY Burnett CHECK ONE ☒ Town ☐ Village ☐ City NAME Daniels

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)  
NE 1/4 Sec. 31 T38N R17W NW Sec. 32

3. OWNER AT TIME OF DRILLING Duane Anderson

4. OWNER'S COMPLETE MAIL ADDRESS Siren, Wis.

5. Distance in feet from well to nearest: BUILDING C.I. TILE FLOOR DRAIN C.I. TILE FOUNDATION DRAIN SEWER CONNECTED INDEPENDENT WASTE WATER DRAIN C.I. TILE  
(Record answer in appropriate block)  
6 40 None None None

CLEAR WATER DRAIN C.I. TILE SEPTIC TANK PRIVY SEEPAGE PIT ABSORPTION FIELD BARN SILO ABANDONED WELL SINK HOLE  
None 50 None 80 90 200 200 None None

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)  
None

6. Well is intended to supply water for: Farm house

7. DRILLHOLE

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 8          | Surface    | 20       |            |            |          |
| 4          | 20         | 81       |            |            |          |

8. CASING, LINER, CURBING, AND SCREEN

| Dia. (in.) | Kind and Weight                              | From (ft.) | To (ft.) |
|------------|----------------------------------------------|------------|----------|
| 4          | Std. Blk. Pipe 11#/ft.                       | Surface    | 78       |
| 4          | Johnson Stainless Steel #18 slot well screen | 78         | 81       |

9. GROUT OR OTHER SEALING MATERIAL

| Kind        | From (ft.) | To (ft.) |
|-------------|------------|----------|
| clay slurry | Surface    | 20       |

10. FORMATIONS

| Kind              | From (ft.) | To (ft.) |
|-------------------|------------|----------|
| Red clay + gravel | Surface    | 20       |
| Red clay + sand   | 20         | 35       |
| Red clay + gravel | 35         | 72       |
| gravel            | 72         | 81       |

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 18 GPM

Depth from surface to normal water level 25 ft.

Depth to water level when pumping 30 ft.

Water sample sent to State Lab. of Hygiene - Madison laboratory on: Sept. 16 1968

Well construction completed on Sept. 10 1968

Well is terminated 15 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Ronald Chell COMPLETE MAIL ADDRESS Rt. 3 Frederic, Wis. 54837  
Registered Well Driller

Please do not write in space below

| COLIFORM TEST RESULT | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS |
|----------------------|---------------|---------------|-----------|---------|
| 1150                 |               |               |           |         |

2848007

706  
1/2

## WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

Well 6

See Instructions on Reverse Side

RECEIVED

1. County BURNETT Town ☒ DANIELS  
 Village ☐ City ☐ Check one and give name  
 2. Location SE 1/4 SEC. 28 T. 17 N. R. 17 W. 138 N  
 Name of street and number of premise or Section, Town and Range numbers  
 3. Owner ☒ or Agent ☐ FRED CARLSON  
 Name of individual, partnership or firm  
 4. Mail Address SIREN R.F.D.  
 Complete address required  
 5. From well to nearest: Building 6 ft; sewer 25 ft; drain 60 ft; septic tank 70 ft;  
 dry well or filter bed 70 ft; abandoned well none ft.

RECEIVED

RECEIVED

SEP 18 1962

6. Well is intended to supply water for: RESIDENT

## 7. DRILLHOLE:

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 4          | 0          | 22       | 4          | 0          | 66       |

## 8. CASING AND LINER PIPE OR CURBING:

| Dia. (in.) | Kind and Weight | From (ft.) | To (ft.) |
|------------|-----------------|------------|----------|
| 4          | STD. PIPE       | Below      | 66       |

## 9. GROUT:

| Kind                  | From (ft.) | To (ft.) |
|-----------------------|------------|----------|
| CLAY & DRILL CUTTINGS | 0          | 22       |

## 11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 5 GPM.Depth from surface to water-level: 4.5 ft.Water-level when pumping: 4.5 ft.

Water sample was sent to the state laboratory at:

Madison on Aug 29 1962  
City

## 10. FORMATIONS:

## ENGINEER

| Kind        | From (ft.) | To (ft.) |
|-------------|------------|----------|
| TOP SOIL    | 0          | 3        |
| GRAVEL      | 3          | 8        |
| SAND        | 8          | 20       |
| GRAVEL      | 20         | 30       |
| Clay        | 30         | 40       |
| CLAY & SAND | 40         | 45       |
| SAND        | 45         | 60       |
| GRAVEL      | 60         | 66       |

Construction of the well was completed on:

JUNE 26 1962The well is terminated 15 inches  
☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion?

Yes ☒ No ☐

Was the well sealed watertight upon completion?

Yes ☒ No ☐

Signature

Vivian Chell  
Registered Well Driller

Please do not write in space below

Complete Mail Address

Madison Wis. Bl.

Rec'd

AUG 30 1962No. 32926

Ans'd

Interpretation

SAFE—BACTERIOLOGICALLY

10 ml 10 ml 10 ml 10 ml 10 ml

Gas—24 hrs.

48 hrs.

Confirm

B. Coli

Examiner



## WELL CONSTRUCTOR'S REPORT

Well-6

SEP 10 1971

STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES  
Box 450  
Madison, Wisconsin 53701WHITE COPY - DIVISION'S COPY  
GREEN COPY - DRILLER'S COPY  
YELLOW COPY - OWNER'S COPY

1. COUNTY Burnett CHECK ONE ☒ Town ☐ Village ☐ City NAME Daniels

2. LOCATION (Number and Street or 1/4 section, section, township and range. Also give subdivision name, lot and block numbers when available.)  
NW 1/4 Sec. 35 T38N R17W

3. OWNER AT TIME OF DRILLING Robert Thompson

4. OWNER'S COMPLETE MAIL ADDRESS Siren, Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

|          |                |             |                  |                   |
|----------|----------------|-------------|------------------|-------------------|
| BUILDING | SANITARY SEWER | FLOOR DRAIN | FOUNDATION DRAIN | WASTE WATER DRAIN |
| C.I.     | C.I.           | C.I.        | SEWER CONNECTED  | INDEPENDENT       |
| 10       | 14             | None        | None             | None              |

|                   |             |       |             |                  |      |       |                |           |
|-------------------|-------------|-------|-------------|------------------|------|-------|----------------|-----------|
| CLEAR WATER DRAIN | SEPTIC TANK | PRIVY | SEEPAGE PIT | ABSORPTION FIELD | BARN | SILLO | ABANDONED WELL | SINK HOLE |
| C.I.              | C.I.        | C.I.  | C.I.        | C.I.             | C.I. | C.I.  | C.I.           | C.I.      |
| None              | 38          | None  | None        | 65               | 200  | 200   | None           | None      |

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)  
River 300'

6. Well is intended to supply water for: Private residence

7. DRILLHOLE

| Dia. (in.) | From (ft.) | To (ft.) | Dia. (in.) | From (ft.) | To (ft.) |
|------------|------------|----------|------------|------------|----------|
| 8          | Surface    | 20       |            |            |          |
| 4          | 20         | 46       |            |            |          |

8. CASING, LINER, CURBING, AND SCREEN

| Dia. (in.) | Kind and Weight    | From (ft.) | To (ft.) |
|------------|--------------------|------------|----------|
| 4          | New Std. B.R. Pipe | Surface    | 43       |
| 4          | 11# ft. 72C        | 43         | 46       |
| 4          | Johnson SS.        | 43         | 46       |
|            | 18 dot well screen |            |          |

10. FORMATIONS

| Kind              | From (ft.) | To (ft.) |
|-------------------|------------|----------|
| Sand              | Surface    | 4        |
| gravel & boulders | 4          | 9        |
| gravel & clay     | 9          | 28       |
| Sand              | 28         | 38       |
| gravel            | 38         | 46       |

9. GROUT OR OTHER SEALING MATERIAL

| Kind        | From (ft.) | To (ft.) |
|-------------|------------|----------|
| clay slurry | Surface    | 20       |

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 14 GPM

Depth from surface to normal water level 24 ft.

Depth to water level when pumping 28 ft.

Water sample sent to State Lab. of Hygiene-Madison laboratory on: Sept. 9 1971

Well construction completed on Sept. 1 1971

Well is terminated 11 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE Ronald Chell COMPLETE MAIL ADDRESS 1743 Frederic, Wis 54837

Registered Well Driller

Please do not write in space below

|                      |               |               |           |                   |
|----------------------|---------------|---------------|-----------|-------------------|
| COLIFORM TEST RESULT | GAS - 24 HRS. | GAS - 48 HRS. | CONFIRMED | REMARKS           |
| 1152                 |               |               |           | 2844004 804 12/01 |

## **APPENDIX C**

### **WDNR SOIL BORING LOGS (FORM 4400-122)**



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

Page 1 of 1

|                                                                                                                                                       |                 |                                                     |                                 |                                                                                                                                       |                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRS #03-07-000151 |                                 | Boring Number GP1                                                                                                                     |                                                              |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                                                     | Date Drilling Started<br>8/8/16 | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe                                  |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name                                    | Final Static Water Level        | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" <span style="float: right;">1</span> |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                     | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                                              |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                  | Civil Town/City/or Village Town of Daniels                                                                                            |                                                              |

| Sample |      |                                 |                         | Blow Counts | Depth In Feet                                | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S.                                                                            | Graphic                                                                            | Well        | PID/FID      | Soil Properties     |                 |                     |       |  | RQD/<br>Comments |  |
|--------|------|---------------------------------|-------------------------|-------------|----------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|--------------|---------------------|-----------------|---------------------|-------|--|------------------|--|
| Number | Type | Length Att. &<br>Recovered (in) | Compressive<br>Strength |             |                                              |                                                                      |                                                                                     |                                                                                    |             |              | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |  |                  |  |
| 1      |      | 36 in                           |                         | 1           | Fill<br>Miscellaneous FILL                   |                                                                      |                                                                                     |   |             | 754<br>ppm   |                     | M               |                     |       |  |                  |  |
|        |      |                                 |                         | 2           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 3           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
| 2      |      |                                 |                         | 4           | Clay<br>Grey/black silty clay                |                                                                      | CL                                                                                  |  |             | 123.7<br>ppm |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 5           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 6           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
| 3      |      |                                 |                         | 7           |                                              |                                                                      |                                                                                     |                                                                                    | 11.7<br>ppm |              | W                   |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 8           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 9           |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 10          |                                              |                                                                      |                                                                                     |                                                                                    |             | 1.8<br>ppm   |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 11          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 12          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 13          |                                              |                                                                      |                                                                                     |                                                                                    | 2.9<br>ppm  |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 14          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 15          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 16          | Sand<br>Brown fine sand<br>-Wet<br>EOB @ 15' | SM                                                                   |  |                                                                                    | 4.0<br>ppm  |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 17          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 18          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 19          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         | 20          |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |
|        |      |                                 |                         |             |                                              |                                                                      |                                                                                     |                                                                                    |             |              |                     |                 |                     |       |  |                  |  |

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

|               |                                                                     |
|---------------|---------------------------------------------------------------------|
| Signature<br> | Firm<br>REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|---------------|---------------------------------------------------------------------|

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



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

Page 1 of 1

|                                                                                                                                        |                 |                                                     |                          |                                                                                                                                       |                           |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                               |                 | License/Permit/Monitoring Number BRRS #03-07-000151 |                          | Boring Number GP2                                                                                                                     |                           |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                         |                 | Date Drilling Started<br>8/8/16                     |                          | Date Drilling Completed<br>8/8/16                                                                                                     |                           |
| Drilling Method<br>Geoprobe                                                                                                            |                 |                                                     |                          |                                                                                                                                       |                           |
| WI Unique Well No.                                                                                                                     | DNR Well ID No. | Common Well Name                                    | Final Static Water Level | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" 2 |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> |                 |                                                     | Lat                      | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                           |
| State Plane                                                                                                                            |                 |                                                     | Long                     |                                                                                                                                       |                           |
| Facility ID 807049540                                                                                                                  |                 | County Burnett                                      | County Code 07           | Civil Town/City/or Village Town of Daniels                                                                                            |                           |

| Sample |      | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID     | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|-------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type |             |               |                                                                      |          |         |      |             | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 48 in       | 1             | Fill<br>Miscellaneous fill                                           |          |         |      |             |                         | M                   |                 |                     |       |                  |
|        |      |             | 2             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
| 2      |      | 60 in       | 3             | Sand<br>Brown/black fine sand                                        | SM       |         |      | 1265<br>ppm |                         |                     |                 |                     |       |                  |
|        |      |             | 4             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 5             | Clay<br>Grey clay w/ orange mottling                                 |          |         |      | 1294<br>ppm |                         |                     |                 |                     |       |                  |
|        |      |             | 6             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
| 3      |      | 60 in       | 7             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 8             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 9             |                                                                      | CL       |         |      | 817<br>ppm  |                         |                     |                 |                     |       |                  |
|        |      |             | 10            |                                                                      |          |         |      | 23.5<br>ppm |                         |                     |                 |                     |       |                  |
|        |      |             | 11            |                                                                      |          |         |      |             |                         | W                   |                 |                     |       |                  |
|        |      |             | 12            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 13            | Sand<br>Brown fine sand                                              | SM       |         |      | 7.4<br>ppm  |                         |                     |                 |                     |       |                  |
|        |      |             | 14            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 15            | EOB @ 15'bls                                                         |          |         |      | 22.6<br>ppm |                         |                     |                 |                     |       |                  |
|        |      |             | 16            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 17            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 18            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 19            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |      |             | 20            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |

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

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| Signature <i>Jeff Black</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------|------------------------------------------------------------------|

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

Page 1 of 1

|                                                                                                                                                       |                 |                                                     |                                 |                                                                                                                                       |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRS #03-07-000151 |                                 | Boring Number GP3                                                                                                                     |                             |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                                                     | Date Drilling Started<br>8/8/16 | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name                                    | Final Static Water Level        | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" 3   |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                     | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                             |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                  | Civil Town/City/or Village Town of Daniels                                                                                            |                             |

| Sample |       | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID     | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|-------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|-------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type  |             |               |                                                                      |          |         |      |             | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      | 60 in |             | 1             | Fill<br>Miscellaneous fill                                           |          |         |      |             |                         | M-W                 |                 |                     |       |                  |
|        |       |             | 2             | Sand<br>Black fine sand                                              | SM       |         |      | 1495<br>ppm |                         |                     |                 |                     |       |                  |
|        |       |             | 3             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
| 2      | 40 in |             | 4             | Organic matter<br>Woody organic material                             |          |         |      |             |                         | M                   |                 |                     |       |                  |
|        |       |             | 5             |                                                                      |          |         |      | 1322<br>ppm |                         |                     |                 |                     |       |                  |
|        |       |             | 6             |                                                                      | OL       |         |      | 231<br>ppm  |                         |                     |                 |                     |       |                  |
| 3      |       |             | 7             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 8             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 9             |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 10            | Clay<br>Grey dry clay                                                |          |         |      | 28.5<br>ppm |                         | W                   |                 |                     |       |                  |
|        |       |             | 11            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 12            |                                                                      | CL       |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 13            |                                                                      |          |         |      | 0.6<br>ppm  |                         |                     |                 |                     |       |                  |
|        |       |             | 14            |                                                                      |          |         |      | 1.0<br>ppm  |                         |                     |                 |                     |       |                  |
|        |       |             | 15            | Sand<br>Brown fine sand                                              | SM       |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 16            | EOB @ 15'                                                            |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 17            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 18            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 19            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |
|        |       |             | 20            |                                                                      |          |         |      |             |                         |                     |                 |                     |       |                  |

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

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Signature <i>Jetty Black</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|------------------------------|------------------------------------------------------------------|

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

Page 1 of 1

|                                                                                                                                                                            |                        |                         |                                                             |                                        |                       |                                                                                                                                              |                                                   |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------|
| <b>Facility/Project Name</b> Burnett County - Former Hedlund DX                                                                                                            |                        |                         | <b>License/Permit/Monitoring Number</b> BRRS # 03-07-000151 |                                        |                       | <b>Boring Number</b> GP4a                                                                                                                    |                                                   |                                    |
| <b>Boring Drilled By: Name of crew chief (first, last) and Firm</b><br>Gestra (Mitch)                                                                                      |                        |                         |                                                             | <b>Date Drilling Started</b><br>8/8/16 |                       | <b>Date Drilling Completed</b><br>8/8/16                                                                                                     |                                                   | <b>Drilling Method</b><br>Geoprobe |
| <b>WI Unique Well No.</b>                                                                                                                                                  | <b>DNR Well ID No.</b> | <b>Common Well Name</b> |                                                             | <b>Final Static Water Level</b>        |                       | <b>Surface Elevation</b><br>0                                                                                                                |                                                   | <b>Borehole Diameter</b><br>2" 1/4 |
| <b>Local Grid Origin</b> <input type="checkbox"/> (estimated) <input type="checkbox"/> or <b>Boring Location</b> <input checked="" type="checkbox"/><br><b>State Plane</b> |                        |                         |                                                             | <b>Lat</b><br><b>Long</b>              |                       | <b>Local Grid Location</b><br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                                   |                                    |
| <b>Facility ID</b> 807049540                                                                                                                                               |                        |                         | <b>County</b> Burnett                                       |                                        | <b>County Code</b> 07 |                                                                                                                                              | <b>Civil Town/City/or Village</b> Town of Daniels |                                    |

| Sample |      |                                 | Blow Counts | Depth In Feet              | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit         | U.S.C.S.     | Graphic                                                                                                                                                                 | Well | PID/FID    | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|----------------------------|------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) |             |                            |                                                                              |              |                                                                                                                                                                         |      |            | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 18 in                           |             | 1<br>2<br>3<br>4           | Fill<br>Gravelly fill<br><br>Silt<br>Black sandy silt and trace small stones | GP<br><br>SM | <br> |      | 0.3<br>ppm |                         | M-W                 |                 |                     |       |                  |
| 2      |      | NA                              |             | 5<br>6<br>7<br>8<br>9      | No Recovery                                                                  |              |                                                                                                                                                                         |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 10<br>11<br>12<br>13<br>14 | EOB @ 10' bls                                                                |              |                                                                                                                                                                         |      |            |                         |                     |                 |                     |       |                  |

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

|                                    |                                                                         |
|------------------------------------|-------------------------------------------------------------------------|
| <b>Signature</b> <i>Jeff Blase</i> | <b>Firm</b> REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|------------------------------------|-------------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                  |                                  |                                                                                                                                       |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 |                  | License/Permit/Monitoring Number |                                                                                                                                       | Boring Number GP4b          |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                  | Date Drilling Started<br>8/8/16  | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name | Final Static Water Level         | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" '4B |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                  | Lat<br>Long                      | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                             |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett   | County Code 07                   | Civil Town/City/or Village Town of Daniels                                                                                            |                             |

| Sample |      |                                 | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic                                                                              | Well | PID/FID    | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|------|------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) |             |               |                                                                      |          |                                                                                      |      |            | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 36 in                           |             | 1             | Fill<br>Gravelly fill                                                | GP       |   |      | 1.8<br>ppm |                         | M                   |                 |                     |       |                  |
|        |      |                                 |             | 2             | Silt<br>Black sandy silt                                             | SM       |  |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 3             |                                                                      |          |                                                                                      |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 4             |                                                                      |          |                                                                                      |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 5             | EOB @ 5'<br>Concrete refusal                                         |          |                                                                                      |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 6             |                                                                      |          |                                                                                      |      |            |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 7             |                                                                      |          |                                                                                      |      |            |                         |                     |                 |                     |       |                  |

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

Signature

*John Blado*

Firm

REI Engineering, Inc.  
4080 North 20th Avenue, Wausau, WI

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

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|                                                                                                                                                       |                 |                  |                                                    |                                                                                                                                       |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 |                  | License/Permit/Monitoring Number BRRTS # 807049540 |                                                                                                                                       | Boring Number GP5           |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                  | Date Drilling Started<br>8/8/16                    | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name | Final Static Water Level                           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" 75  |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                  | Lat<br>Long                                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                             |

Facility ID 807049540 County Burnett County Code 07 Civil Town/City/or Village Town of Daniels

| Sample |      |                                 |                         | Blow Counts | Depth In Feet                 | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S.                                                                            | Graphic | Well     | PID/FID | Soil Properties     |                 |                     |       |  | RQD/<br>Comments |
|--------|------|---------------------------------|-------------------------|-------------|-------------------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|----------|---------|---------------------|-----------------|---------------------|-------|--|------------------|
| Number | Type | Length Att. &<br>Recovered (in) | Compressive<br>Strength |             |                               |                                                                      |                                                                                     |         |          |         | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |  |                  |
| 1      |      | 36 in                           |                         | 1           | Fill<br>Gravelly fill         | GP                                                                   |    |         | 649 ppm  | M       |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 2           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 3           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
| 2      |      | 36 in                           |                         | 4           | Sand<br>Silty sand - wet      | SM                                                                   |   |         | 1217 ppm | W       |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 5           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 6           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
| 3      |      | 60 in                           |                         | 7           | Sand<br>Fine sand - saturated | CH                                                                   |  |         | 51.5 ppm |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 8           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 9           |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 10          | Clay<br>Native grey clay      |                                                                      |  |         | 226 ppm  |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 11          |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 12          |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 13          |                               |                                                                      |  |         | 15.1 ppm |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 14          |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 15          |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 16          | EOB @ 15'bls                  |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |
|        |      |                                 |                         | 17          |                               |                                                                      |                                                                                     |         |          |         |                     |                 |                     |       |  |                  |

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

Signature

*Jeffrey Blasko*

Firm

REI Engineering, Inc.  
4080 North 20th Avenue, Wausau, WI

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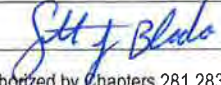
Route To: Watershed/Wastewater ☐ Waste Management ☐  
Remediation/Redevelopment ☒ Other ☐

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|                                                                                                                                                       |                 |                                                     |                                 |                                                                                                                                       |                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRS #03-07-000151 |                                 | Boring Number GP6A                                                                                                                    |                               |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                                                     | Date Drilling Started<br>8/8/16 | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe   |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>GP6A                            | Final Static Water Level        | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2 in '6A |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                     | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                               |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                  | Civil Town/City/or Village Town of Daniels                                                                                            |                               |

| Sample |      |                                 | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic                                                                            | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|------------------------------------------------------------------------------------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) |             |               |                                                                      |          |                                                                                    |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
|        |      |                                 |             |               | Concrete fill                                                        |          |  |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 1             |                                                                      |          |                                                                                    |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 2             |                                                                      |          |                                                                                    |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 3             | EOB @ 3'bls<br>All fill - odor @ bottom                              |          |                                                                                    |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 4             |                                                                      |          |                                                                                    |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 5             |                                                                      |          |                                                                                    |      |         |                         |                     |                 |                     |       |                  |

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

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Signature  | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

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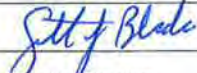
Route To: Watershed/Wastewater ☐ Waste Management ☐  
Remediation/Redevelopment ☒ Other ☐

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|                                                                                                                                                       |                 |                                                      |                                 |                                                                                                                                       |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRTS #03-07-000151 |                                 | Boring Number GP6b                                                                                                                    |                             |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                                                      | Date Drilling Started<br>8/8/16 | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name                                     | Final Static Water Level        | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" '6b |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                      | Lat<br>Long                     | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                             |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                       | County Code 07                  | Civil Town/City/or Village Town of Daniels                                                                                            |                             |

| Sample |      |                                 | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic                                                                              | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |  |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|--------------------------------------------------------------------------------------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|--|
| Number | Type | Length Att. &<br>Recovered (in) |             |               |                                                                      |          |                                                                                      |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |  |
| 1      |      | 36                              |             | 1             | Fill<br>Gravelly fill                                                | GP       |    |      |         |                         | M                   |                 |                     |       |                  |  |
|        |      |                                 |             | 2             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 3             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
| 2      | SS   |                                 |             | 4             | Clay<br>Gray clay<br>-strong odor                                    | CL       |   |      | 1220    |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 5             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 6             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
| 3      | SS   | 60                              |             | 7             |                                                                      |          |                                                                                      |      | 190     |                         | W                   |                 |                     |       |                  |  |
|        |      |                                 |             | 8             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 9             |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 10            | Sand<br>Fine sand                                                    | SM       |  |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 11            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 12            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 13            | Clay<br>Gray clay                                                    | CL       |  |      | 4.0     |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 14            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 15            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 16            | Sand<br>Fine sand                                                    | SM       |  |      | 3.6     |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 17            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 18            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 19            | EOB @ 15'                                                            |          |                                                                                      |      | 18.2    |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 20            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |
|        |      |                                 |             | 21            |                                                                      |          |                                                                                      |      |         |                         |                     |                 |                     |       |                  |  |

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

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Signature  | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                      |                                 |                                                                                                                                       |                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRS # 03-07-000151 |                                 | Boring Number GP7                                                                                                                     |                             |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch)                                                                        |                 |                                                      | Date Drilling Started<br>8/8/16 | Date Drilling Completed<br>8/8/16                                                                                                     | Drilling Method<br>Geoprobe |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name                                     | Final Static Water Level        | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>2" 7   |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                      | Lat<br>Long                     | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                             |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                       | County Code 07                  | Civil Town/City/or Village Town of Daniels                                                                                            |                             |

| Sample |      | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type |             |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 36 in       | 1             | Fill<br>Miscellaneous Fill                                           | GP       |         |      | 90.2    |                         | M-W                 |                 |                     |       |                  |
|        |      |             | 2             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 3             | Clay<br>Black/grey clay                                              |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 4             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 5             | Clay<br>Grey mottled clay                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
| 2      |      | 60 in       | 6             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 7             |                                                                      |          |         |      | 79.2    |                         |                     |                 |                     |       |                  |
|        |      |             | 8             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 9             |                                                                      | CL       |         |      | 8.9     |                         |                     |                 |                     |       |                  |
|        |      |             | 10            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 11            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 3      |      | 60 in       | 12            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 13            |                                                                      |          |         |      | 13.8    |                         |                     |                 |                     |       |                  |
|        |      |             | 14            |                                                                      |          |         |      | 16.2    |                         |                     |                 |                     |       |                  |
|        |      |             | 15            | Sand<br>Brown fine sand                                              | SM       |         |      | 55.7    |                         |                     |                 |                     |       |                  |
|        |      |             | 16            | EOB @ 15'bls                                                         |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Signature <i>Jeff Blader</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                        |                 |                                                     |                                    |                                                                                                                                       |                                      |
|------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                               |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-2                                                                                                                    |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                   |                 |                                                     | Date Drilling Started<br>9/13/2016 | Date Drilling Completed<br>9/13/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                     | DNR Well ID No. | Common Well Name<br>MW-2                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" V-2       |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location MW-2<br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                  |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |      |                                 | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well                                                                                 | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|--------------------------------------------------------------------------------------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) |             |               |                                                                      |          |         |                                                                                      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
|        |      |                                 |             | 1             | Blind drilled to 20'                                                 |          |         |  |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 2           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 3           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 4           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 5           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 6           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 7           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 8           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 9           |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 10          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 11          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 12          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 13          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 14          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 15          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 16          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 17          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 18          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 19          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 20          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 21          |               | EOB<br>Well set @ 20' BLS                                            |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 | 22          |               |                                                                      |          |         |                                                                                      |         |                         |                     |                 |                     |       |                  |

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

|                                 |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| Signature <i>Scott J. Black</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|---------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                      |                                    |                                                                                                                                       |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRTS #03-07-000151 |                                    | Boring Number MW-3                                                                                                                    |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                                                  |                 |                                                      | Date Drilling Started<br>9/13/2016 | Date Drilling Completed<br>9/13/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-3                             | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" N-3       |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                      | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |

Facility ID 807049540 County Burnett County Code 07 Civil Town/City/or Village Town of Daniels

| Sample |      |                                 |             | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | Soil Properties |                         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|-----------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) | Blow Counts |               |                                                                      |          |         |      | PID/FID         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 10"                             |             | 1             | Miscellaneous Fill<br>Strong odor                                    |          |         |      | 1808            |                         | M                   |                 |                     |       |                  |
| 2      |      | 18"                             |             | 2             | Silt<br>Brown/black silt with trace fine sand                        |          |         |      | 1480            |                         |                     |                 |                     |       |                  |
| 3      |      | 0                               |             | 3             |                                                                      | SM       |         |      |                 |                         |                     |                 |                     |       |                  |
| 4      |      | 18"                             |             | 4             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 5      |      | 3"                              |             | 5             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 6      |      | 12"                             |             | 6             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 7      |      | 18"                             |             | 7             | Sandy clay                                                           | SC       |         |      | 548             |                         |                     |                 |                     |       |                  |
| 8      |      | 12"                             |             | 8             | Hard clay                                                            |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 9      |      |                                 |             | 9             | Clay<br>Gray clay with trace fine sands - wet                        |          |         |      | 216             |                         | W                   |                 |                     |       |                  |
| 10     |      |                                 |             | 10            |                                                                      | CL       |         |      |                 |                         |                     |                 |                     |       |                  |
| 11     |      |                                 |             | 11            |                                                                      |          |         |      | 208             |                         |                     |                 |                     |       |                  |
| 12     |      |                                 |             | 12            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 13     |      |                                 |             | 13            |                                                                      |          |         |      | 118             |                         |                     |                 |                     |       |                  |
| 14     |      |                                 |             | 14            | Sand<br>Brown fine sand - wet                                        | SM       |         |      | 62              |                         |                     |                 |                     |       |                  |
| 15     |      |                                 |             | 15            | EOB<br>Well set @ 15' BLS                                            |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 16     |      |                                 |             | 16            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 17     |      |                                 |             | 17            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 18     |      |                                 |             | 18            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 19     |      |                                 |             | 19            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 20     |      |                                 |             | 20            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |

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

Signature *Scott J. Blase* Firm REI Engineering, Inc.  
4080 North 20th Avenue, Wausau, WI

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

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|                                                                                                                                        |                 |                                                     |                                    |                                                                                                                                       |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                               |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-4                                                                                                                    |                                                                    |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                                   |                 |                                                     | Date Drilling Started<br>9/13/2016 | Date Drilling Completed<br>9/13/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger                               |
| WI Unique Well No.                                                                                                                     | DNR Well ID No. | Common Well Name<br>MW-4                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" <span style="float: right;">N-4*</span> |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> |                 |                                                     | Lat                                | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                                                    |
| State Plane                                                                                                                            |                 | Long                                                |                                    |                                                                                                                                       |                                                                    |
| Facility ID 807049540                                                                                                                  |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                                                    |

| Sample |      | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type |             |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      | 14"  |             | 1             | Fill<br>Miscellaneous fill with woody debris                         |          |         |      | 1460    |                         | M                   |                 |                     |       |                  |
| 2      | 14"  |             | 2             | Gravel/sand<br>Gravelly coarse sand                                  | GP       |         |      | 450     |                         |                     |                 |                     |       |                  |
|        |      |             | 3             | Sand<br>White fine sand                                              | SM       |         |      |         |                         |                     |                 |                     |       |                  |
| 3      | 14"  |             | 4             | Organic matter<br>Woody debris                                       | GP       |         |      | 952     |                         |                     |                 |                     |       |                  |
|        |      |             | 5             | Gravel/sand<br>Gravelly coarse sand                                  | SM       |         |      |         |                         |                     |                 |                     |       |                  |
| 4      | 18"  |             | 6             | Sand<br>Dark fine sand                                               |          |         |      | 226     |                         | W                   |                 |                     |       |                  |
|        |      |             | 7             | Clay<br>Hard clay-wet                                                | CL       |         |      | 212     |                         |                     |                 |                     |       |                  |
| 5      | 18"  |             | 8             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 6      | 16"  |             | 9             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 10            | Sand<br>Dark black sand with clay                                    | SC       |         |      | 46      |                         |                     |                 |                     |       |                  |
| 7      | 18"  |             | 11            | Clay<br>Grey hard clay                                               | CL       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 12            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 8      | 14"  |             | 13            | Sand<br>Fine brown sand - Saturated                                  | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 14            | EOB<br>Well set @ 15' BLS                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 15            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 16            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 18            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 19            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 20            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| Signature <i>Scott J. Bladen</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|----------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-5                                                                                                                    |                                        |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                                                  |                 |                                                     | Date Drilling Started<br>9/13/2016 | Date Drilling Completed<br>9/13/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger   |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-5                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" <i>N-5*</i> |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                        |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                        |

| Sample |      |                                 | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |  | P 200 | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|--|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) |             |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index |  |       |                  |
|        |      |                                 |             | 1             | Blind drilled to 15'                                                 |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 2             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 3             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 4             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 5             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 6             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 7             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 8             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 9             |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 10            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 11            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 12            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 13            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 14            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 15            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 16            | EOB<br>Well set @ 15' BLS                                            |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 18            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 19            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |
|        |      |                                 |             | 20            |                                                                      |          |         |      |         |                         |                     |                 |                     |  |       |                  |

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

|                                 |                                                                  |
|---------------------------------|------------------------------------------------------------------|
| Signature <i>Scott J. Blach</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|---------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                        |                 |                                                      |                                    |                                                                                                                                       |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                               |                 | License/Permit/Monitoring Number BRRTS #03-07-000151 |                                    | Boring Number MW-6                                                                                                                    |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                                   |                 |                                                      | Date Drilling Started<br>9/13/2016 | Date Drilling Completed<br>9/13/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                     | DNR Well ID No. | Common Well Name<br>MW-6                             | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" N-6*      |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/> |                 |                                                      | Lat                                | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                                  |                 | County Burnett                                       | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |      |                                 |             | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | Soil Properties |                         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|-----------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) | Blow Counts |               |                                                                      |          |         |      | PID/FID         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 12"                             |             | 1             | MISCELLANEOUS FILL                                                   |          |         |      | 0.2             |                         | M                   |                 |                     |       |                  |
| 2      |      | 16"                             |             | 2             | Sand<br>Grey clayey fine sand                                        | SC       |         |      | 0.4             |                         |                     |                 |                     |       |                  |
| 3      |      | 16"                             |             | 3             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 4      |      | 18"                             |             | 4             | Clay<br>Hard grey clay                                               |          |         |      | 1.8             |                         |                     |                 |                     |       |                  |
| 5      |      | 18"                             |             | 5             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 6      |      | 18"                             |             | 6             |                                                                      |          |         |      | 18.5            |                         |                     |                 |                     |       |                  |
| 7      |      | 18"                             |             | 7             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 8      |      | 18"                             |             | 8             |                                                                      | CL       |         |      | 18.2            |                         |                     |                 |                     |       |                  |
| 9      |      | 18"                             |             | 9             |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 10     |      | 18"                             |             | 10            |                                                                      |          |         |      | 9.1             |                         |                     |                 |                     |       |                  |
| 11     |      | 18"                             |             | 11            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 12     |      | 18"                             |             | 12            |                                                                      |          |         |      | 0.6             |                         | W                   |                 |                     |       |                  |
| 13     |      | 18"                             |             | 13            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 14     |      | 18"                             |             | 14            | Sand                                                                 | SP       |         |      |                 |                         |                     |                 |                     |       |                  |
| 15     |      | 18"                             |             | 15            | Saturated coarse brown sand                                          |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 16     |      |                                 |             | 16            | EOB<br>Well set @ 15' BLS                                            |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 17     |      |                                 |             | 17            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 18     |      |                                 |             | 18            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 19     |      |                                 |             | 19            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
| 20     |      |                                 |             | 20            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |

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

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| Signature <i>Jeff Bleck</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-7                                                                                                                    |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra (Mitch & Joe)                                                                  |                 |                                                     | Date Drilling Started<br>9/14/2016 | Date Drilling Completed<br>9/14/2016                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-7                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" V-7       |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |      | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | Soil Properties |                         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|-----------------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type |             |               |                                                                      |          |         |      | PID/FID         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 12"         | 1             | Sand<br>Brown medium-coarse sand (Fill)                              | SP       |         |      | 0.0             |                         | M                   |                 |                     |       |                  |
| 2      |      | 18"         | 3             | Sandy clay<br>Grey/black                                             | SC       |         |      | 0.0             |                         |                     |                 |                     |       |                  |
| 3      |      | 10"         | 4             | Clay<br>Hard grey clay                                               |          |         |      | 0.0             |                         |                     |                 |                     |       |                  |
| 4      |      | 18"         | 5             |                                                                      |          |         |      | 0.0             |                         |                     |                 |                     |       |                  |
| 5      |      | 18"         | 7             |                                                                      | CL       |         |      | 0.0             |                         |                     |                 |                     |       |                  |
| 6      |      | 18"         | 9             |                                                                      |          |         |      | 0.0             |                         |                     |                 |                     |       |                  |
| 7      |      | 12"         | 11            | Sandy clay<br>Saturated                                              | SC       |         |      | 0.0             |                         | W                   |                 |                     |       |                  |
| 8      |      | 18"         | 13            | Sand<br>Saturated brown coarse sand                                  | SP       |         |      | 0.0             |                         |                     |                 |                     |       |                  |
|        |      |             | 14            | EOB<br>Well set @ 15' BLS                                            |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 15            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 16            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 17            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 18            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 19            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |
|        |      |             | 20            |                                                                      |          |         |      |                 |                         |                     |                 |                     |       |                  |

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

Signature

*John J. Black*

Firm

REI Engineering, Inc.

4080 North 20th Avenue, Wausau, WI

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

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Facility/Project Name Burnett County - Former Hediund DX                                                                                              |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-8                                                                                                                    |                                               |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra Engineering, Inc. (Mitch)                                                      |                 |                                                     | Date Drilling Started<br>1/11/2017 | Date Drilling Completed<br>1/11/2017                                                                                                  | Drilling Method<br>Hollow Stem Auger          |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-8                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" <small>N-8</small> |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                               |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                               |

| Sample |      |                                 |             | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) | Blow Counts |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      |                                 |             | 1             | Gravel fill                                                          |          |         |      |         |                         | M                   |                 |                     |       |                  |
|        |      |                                 |             | 2             | Sand<br>Fine-medium brown silty sand                                 | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 3             | Clay<br>Grey clay                                                    |          |         |      |         |                         |                     |                 |                     |       |                  |
| 2      |      |                                 |             | 4             | -Wet @ 4' BLS                                                        |          |         |      |         |                         | W                   |                 |                     |       |                  |
|        |      |                                 |             | 5             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 6             |                                                                      | CL       |         |      |         |                         |                     |                 |                     |       |                  |
| 3      |      |                                 |             | 7             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 8             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 9             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 10            | Sand<br>Fine-medium brown silty sand                                 |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 11            | -Saturated                                                           |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 12            |                                                                      | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 13            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 14            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 15            | Clay<br>Grey clay                                                    | CL       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 16            | EOB<br>Well set @ 15' BLS                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 18            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 19            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 20            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                                |                                                                  |
|--------------------------------|------------------------------------------------------------------|
| Signature <i>Scott J. Blum</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|--------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-9                                                                                                                    |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra Engineering, Inc. (Mitch)                                                      |                 |                                                     | Date Drilling Started<br>1/11/2017 | Date Drilling Completed<br>1/11/2017                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-9                            | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" V-9       |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |       | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|-------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type  |             |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      | 44 in |             | 1             | Gravel fill                                                          |          |         |      |         |                         | M                   |                 |                     |       |                  |
|        |       |             | 2             | Sand<br>Brown silty sand (fine-medium)                               | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 3             | Clay<br>Grey clay                                                    |          |         |      |         |                         |                     |                 |                     |       |                  |
| 2      | 40 in |             | 4             | -Wet @ 4' BLS                                                        |          |         |      |         |                         | W                   |                 |                     |       |                  |
|        |       |             | 5             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 6             |                                                                      | CL       |         |      |         |                         |                     |                 |                     |       |                  |
| 3      | 44 in |             | 7             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 8             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 9             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 10            | Sand<br>Fine-medium brown silty sand                                 |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 11            | -Saturated                                                           | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 12            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 13            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 14            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 15            | Clay<br>Grey clay                                                    | CL       |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 16            | EOB<br>Well set @ 15' BLS                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 18            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 19            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |       |             | 20            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Signature  | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

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

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRRS #03-07-000151 |                                    | Boring Number MW-10                                                                                                                   |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra Engineering, Inc. (Mitch)                                                      |                 |                                                     | Date Drilling Started<br>1/12/2017 | Date Drilling Completed<br>1/12/2017                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-10                           | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" V-10      |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |      | Blow Counts | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type |             |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 42"         | 1             | Sand<br>Fine-medium brown sand                                       | SW       |         |      |         |                         | M                   |                 |                     |       |                  |
|        |      |             | 2             | Organic Matter<br>Black organic matter                               |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 3             | Clay<br>Grey silty clay                                              |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 4             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 5             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 2      |      | 36"         | 6             | Clay<br>Grey/black silty clay with organic matter/wood               |          |         |      |         |                         | M-W                 |                 |                     |       |                  |
|        |      |             | 7             | Clay<br>Grey clay                                                    |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 8             |                                                                      | CL       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 9             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 10            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 3      |      | 24"         | 11            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 12            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 13            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 14            | Sand<br>Fine-medium brown silty sand<br>-wet                         | SM       |         |      |         |                         | W                   |                 |                     |       |                  |
|        |      |             | 15            | EOB<br>Well set @ 15' BLS                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 16            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 17            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 18            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 19            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |             | 20            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Signature <i>John Blum</i> | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|----------------------------|------------------------------------------------------------------|

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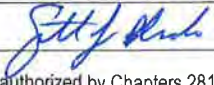
Route To: Watershed/Wastewater ☐ Waste Management ☐  
Remediation/Redevelopment ☒ Other ☐

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|                                                                                                                                                       |                 |                                                     |                                    |                                                                                                                                       |                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Facility/Project Name Burnett County - Former Hedlund DX                                                                                              |                 | License/Permit/Monitoring Number BRTS #03-07-000151 |                                    | Boring Number MW-11                                                                                                                   |                                      |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br>Gestra Engineering, Inc. (Mitch)                                                      |                 |                                                     | Date Drilling Started<br>1/12/2017 | Date Drilling Completed<br>1/12/2017                                                                                                  | Drilling Method<br>Hollow Stem Auger |
| WI Unique Well No.                                                                                                                                    | DNR Well ID No. | Common Well Name<br>MW-11                           | Final Static Water Level           | Surface Elevation<br>0                                                                                                                | Borehole Diameter<br>8.25" V-11      |
| Local Grid Origin <input type="checkbox"/> (estimated) <input type="checkbox"/> or Boring Location <input checked="" type="checkbox"/><br>State Plane |                 |                                                     | Lat<br>Long                        | Local Grid Location<br>N <input type="checkbox"/> E <input type="checkbox"/><br>S <input type="checkbox"/> W <input type="checkbox"/> |                                      |
| Facility ID 807049540                                                                                                                                 |                 | County Burnett                                      | County Code 07                     | Civil Town/City/or Village Town of Daniels                                                                                            |                                      |

| Sample |      |                                 |             | Depth In Feet | Soil/ Rock Description<br>And Geologic Origin For<br>Each Major Unit | U.S.C.S. | Graphic | Well | PID/FID | Soil Properties         |                     |                 |                     |       | RQD/<br>Comments |
|--------|------|---------------------------------|-------------|---------------|----------------------------------------------------------------------|----------|---------|------|---------|-------------------------|---------------------|-----------------|---------------------|-------|------------------|
| Number | Type | Length Att. &<br>Recovered (in) | Blow Counts |               |                                                                      |          |         |      |         | Compressive<br>Strength | Moisture<br>Content | Liquid<br>Limit | Plasticity<br>Index | P 200 |                  |
| 1      |      | 36"                             |             | 1             | Fill<br>Brown silty sand (fine-medium) with gravel                   |          |         |      |         |                         | M                   |                 |                     |       |                  |
|        |      |                                 |             | 2             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 3             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 4             |                                                                      | SM       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 5             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 2      |      | 42"                             |             | 6             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 7             |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 8             | Organic matter                                                       |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 9             | Woody/organic matter with petroleum odor                             |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 10            | Clay                                                                 |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 11            | Grey silty clay                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
| 3      |      | 36"                             |             | 12            |                                                                      | CL       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 13            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 14            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 15            | Clay                                                                 |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 16            | Grey clay                                                            |          |         |      |         |                         |                     |                 |                     |       |                  |
| 4      |      | 60"                             |             | 17            | Sand                                                                 |          |         |      |         |                         | W                   |                 |                     |       |                  |
|        |      |                                 |             | 18            | Brown sand (fine-coarse)                                             | SW       |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 19            | -wet                                                                 |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 20            | EOB                                                                  |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 21            | Well set @ 20' BLS                                                   |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 22            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |
|        |      |                                 |             | 23            |                                                                      |          |         |      |         |                         |                     |                 |                     |       |                  |

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

|                                                                                               |                                                                  |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Signature  | Firm REI Engineering, Inc.<br>4080 North 20th Avenue, Wausau, WI |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------|

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

## **APPENDIX D**

### **WDNR MONITORING WELL CONSTRUCTION FORMS (FORM 4400-133A)**



Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                   |  |                                                                                                                                                                                                                   |  |                                                                             |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|--|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                        |  | <b>Local Grid Location of Well</b><br>Feet S. Feet W. Feet N. Feet E.                                                                                                                                             |  | <b>Well Name</b><br>MW-2                                                    |  |
| <b>Facility License Permit or Monitoring Number</b>                                                                               |  | <b>Grid Origin Location</b>                                                                                                                                                                                       |  | <b>Wis. Unique Well Number</b> <b>DNR Well Number</b>                       |  |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 |  | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W                                                                                                          |  | <b>Date Well Installed</b><br>9/13/16                                       |  |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft.                                                                         |  | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |  | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |  |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No                |  |                                                                                                                                                                                                                   |  |                                                                             |  |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

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

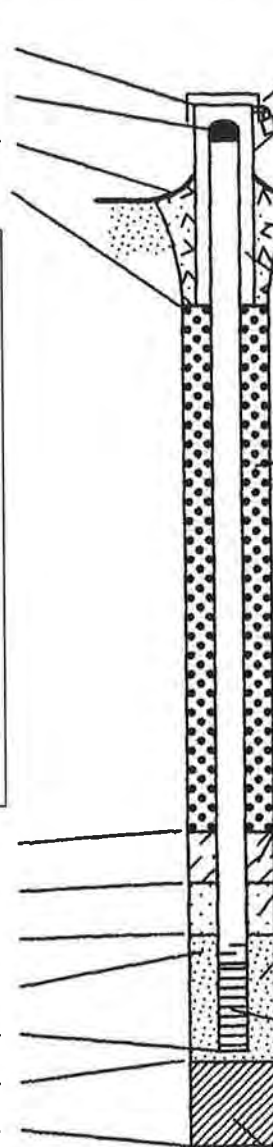
15. Drilling fluid used: Water ☐ 02 Air ☐ 01  
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 4.44 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 6.44 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 8.44 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 18.44 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 18.44 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 18.44 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. \_\_\_\_\_ lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ lbs/gal mud weight Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. \_\_\_\_\_ Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.656 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.936 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.



Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                   |                                                                                                                                                                                                                   |                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                        | <b>Local Grid Location of Well</b><br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | <b>Well Name</b><br>MW-3                                                    |
| <b>Facility License Permit or Monitoring Number</b>                                                                               | <b>Grid Origin Location</b>                                                                                                                                                                                       | <b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____           |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W                                                                                                          | <b>Date Well Installed</b><br>9/13/16                                       |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft. _____                                                                   | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No                |                                                                                                                                                                                                                   |                                                                             |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 1.96 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 2.96 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 3.96 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 13.96 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.96 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 13.96 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe:  
Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. Bentonite-sand slurry ☐ 35  
c. Bentonite slurry ☐ 31  
d. Bentonite-cement grout ☐ 50  
e. Volume added for any of the above \_\_\_\_\_ ft<sup>3</sup>  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. Bentonite pellets ☒ 32  
c. Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature \_\_\_\_\_

Firm \_\_\_\_\_

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                   |                                                                                                                                                                                                                   |                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                        | <b>Local Grid Location of Well</b><br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | <b>Well Name</b><br>MW-4                                                    |
| <b>Facility License Permit or Monitoring Number</b>                                                                               | <b>Grid Origin Location</b>                                                                                                                                                                                       | <b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____           |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W                                                                                                          | <b>Date Well Installed</b><br>9/13/16                                       |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft. _____                                                                   | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No                |                                                                                                                                                                                                                   |                                                                             |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.00 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 2.32 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.32 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 4.32 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 14.32 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 14.32 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 14.32 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. \_\_\_\_\_ Lbs/gal mud weight \_\_\_\_\_ Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ Lbs/gal mud weight \_\_\_\_\_ Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite \_\_\_\_\_ Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. \_\_\_\_\_ Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature \_\_\_\_\_

Firm \_\_\_\_\_

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                   |                                                                                                                                                                                                                   |                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                        | <b>Local Grid Location of Well</b><br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | <b>Well Name</b><br>MW-5                                                    |
| <b>Facility License Permit or Monitoring Number</b>                                                                               | <b>Grid Origin Location</b>                                                                                                                                                                                       | <b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____           |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W                                                                                                          | <b>Date Well Installed</b><br>9/13/16                                       |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft. _____                                                                   | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No                |                                                                                                                                                                                                                   |                                                                             |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 3.00 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 4.00 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 5.00 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 15.00 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 15.00 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 15.00 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe:  
Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. \_\_\_\_\_ Lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ Lbs/gal mud weight Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. \_\_\_\_\_ Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                   |                                                                                                                                                                                                                   |                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                        | <b>Local Grid Location of Well</b><br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | <b>Well Name</b><br>MW-6                                                    |
| <b>Facility License Permit or Monitoring Number</b>                                                                               | <b>Grid Origin Location</b>                                                                                                                                                                                       | <b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____           |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E                                                                                                                                                | <b>Date Well Installed</b><br>9/13/16                                       |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft. _____                                                                   | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No                |                                                                                                                                                                                                                   |                                                                             |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.00 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 1.76 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 2.26 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 2.76 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 12.76 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 12.76 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 12.76 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. Lbs/gal mud weight \_\_\_\_\_ Bentonite-sand slurry ☐ 35  
c. Lbs/gal mud weight \_\_\_\_\_ Bentonite slurry ☐ 31  
d. %Bentonite \_\_\_\_\_ Bentonite-cement grout ☐ 50  
e. ft<sup>3</sup> Volume added for any of the above \_\_\_\_\_  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.444 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature \_\_\_\_\_

Firm \_\_\_\_\_

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                                  |                                                                                                                                                                                                                   |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>Facility/Project Name</b><br>Hedlund DX                                                                                       | <b>Local Grid Location of Well</b><br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | <b>Well Name</b><br>MW-7                                                    |
| <b>Facility License Permit or Monitoring Number</b>                                                                              | <b>Grid Origin Location</b>                                                                                                                                                                                       | <b>Wis. Unique Well Number</b> _____ <b>DNR Well Number</b> _____           |
| <b>Type of Well</b> Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 2 | <b>Section Location of Waste/Source</b> <input type="checkbox"/> E <input checked="" type="checkbox"/> W                                                                                                          | <b>Date Well Installed</b><br>9/14/16                                       |
| <b>Distance Well Is From Waste/Source Boundary</b><br>Ft. _____                                                                  | <b>Location of Well Relative to Waste/Source</b><br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Well Installed By (Person's Name and Firm)</b><br>Gestra<br>Mitch Panfil |
| <b>Is Well A Point of Enforcement Std. Application</b><br><input type="checkbox"/> Yes <input type="checkbox"/> No               |                                                                                                                                                                                                                   |                                                                             |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL

B. Well casing, top elevation \_\_\_\_\_ ft. MSL

C. Land surface elevation \_\_\_\_\_ ft. MSL

D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

|                                  |                             |                             |                             |                             |                             |
|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| GP <input type="checkbox"/>      | GM <input type="checkbox"/> | GC <input type="checkbox"/> | GW <input type="checkbox"/> | SW <input type="checkbox"/> | SP <input type="checkbox"/> |
| SM <input type="checkbox"/>      | SC <input type="checkbox"/> | ML <input type="checkbox"/> | MH <input type="checkbox"/> | CL <input type="checkbox"/> | CH <input type="checkbox"/> |
| Bedrock <input type="checkbox"/> |                             |                             |                             |                             |                             |

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.

F. Fine sand, top \_\_\_\_\_ ft. MSL or 2.55 ft.

G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.55 ft.

H. Screen joint, top \_\_\_\_\_ ft. MSL or 4.55 ft.

I. Well bottom \_\_\_\_\_ ft. MSL or 14.55 ft.

J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 14.55 ft.

K. Borehole, bottom \_\_\_\_\_ ft. MSL or 14.55 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No

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

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

4. Material between well casing and protective pipe:  
Bentonite ☒ 30  
Annular space seal ☐  
Other ☐

5. Annular space seal:  
a. Granular Bentonite ☐ 33  
b. \_\_\_\_\_ lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ lbs/gal mud weight Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08

6. Bentonite seal:  
a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. \_\_\_\_\_ Other ☐

7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>

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

10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.

11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                            |                                                                                                                                                                                                            |                                                             |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Facility/Project Name<br><b>Hedlund DX</b>                                                                                 | Local Grid Location of Well<br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | Well Name<br><b>MW-11</b>                                   |
| Facility License Permit or Monitoring Number                                                                               | Grid Origin Location                                                                                                                                                                                       | Wis. Unique Well Number _____ DNR Well Number _____         |
| Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 12 | Section Location of Waste/Source <input type="checkbox"/> E                                                                                                                                                | Date Well Installed<br><b>1-12-17</b>                       |
| Distance Well Is From Waste/Source Boundary<br>Ft. _____                                                                   | NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 <input checked="" type="checkbox"/> W                                                                                                                          | Well Installed By (Person's Name and Firm)<br><b>Gestra</b> |
| Is Well A Point of Enforcement Std. Application<br><input type="checkbox"/> Yes <input type="checkbox"/> No                | Location of Well Relative to Waste/Source<br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | <b>Mitch Panfil</b>                                         |

|                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> | <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe:<br/>a. Inside diameter: _____ 9 in.<br/>b. Length: _____ 1 ft.<br/>c. Material: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> 04<br/>Other <input type="checkbox"/></p> <p>d. Additional protection? <input type="checkbox"/> Yes <input type="checkbox"/> No<br/>If yes, describe: _____</p> <p>3. Surface seal: <input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> 30<br/><input type="checkbox"/> Concrete <input checked="" type="checkbox"/> 01<br/>Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe:<br/><input type="checkbox"/> Bentonite <input checked="" type="checkbox"/> 30<br/>Annular space seal <input type="checkbox"/><br/>Other <input type="checkbox"/></p> <p>5. Annular space seal:<br/>a. Granular Bentonite <input type="checkbox"/> 33<br/>b. _____ Lbs/gal mud weight Bentonite-sand slurry <input type="checkbox"/> 35<br/>c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31<br/>d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50<br/>e. _____ ft<sup>3</sup> Volume added for any of the above<br/>f. How installed: Tremie <input type="checkbox"/> 01<br/>Tremie pumped <input type="checkbox"/> 02<br/>Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal:<br/>a. Bentonite Granules <input type="checkbox"/> 33<br/>b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32<br/>c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material Manufacturer, product name and mesh size<br/>a. #15 Red Flint<br/>b. Volume added _____ 0.328 ft<sup>3</sup></p> <p>8. Filter pack material: Manufacturer, product name and mesh size<br/>a. #40 Red Flint<br/>b. Volume added _____ 3.608 ft<sup>3</sup></p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23<br/>Flush threaded PVC schedule 80 <input type="checkbox"/> 24<br/>Other <input type="checkbox"/></p> <p>10. Screen material: PVC<br/>a. Screen type: Factory cut <input checked="" type="checkbox"/> 11<br/>Continuous slot <input type="checkbox"/> 01<br/>Other <input type="checkbox"/><br/>b. Manufacturer <b>U.S. Filter</b><br/>c. Slot size: _____ in.<br/>d. Slotted length: _____ 10 ft.</p> <p>11. Backfill material (below filter Pack): None <input checked="" type="checkbox"/> 14<br/>Other <input type="checkbox"/></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

12. USCS Classification of soil near screen:

|                             |                             |                             |                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| GP <input type="checkbox"/> | GM <input type="checkbox"/> | GC <input type="checkbox"/> | GW <input type="checkbox"/> | SW <input type="checkbox"/> | SP <input type="checkbox"/> |
| SM <input type="checkbox"/> | SC <input type="checkbox"/> | ML <input type="checkbox"/> | MH <input type="checkbox"/> | CL <input type="checkbox"/> | CH <input type="checkbox"/> |

Bedrock ☐

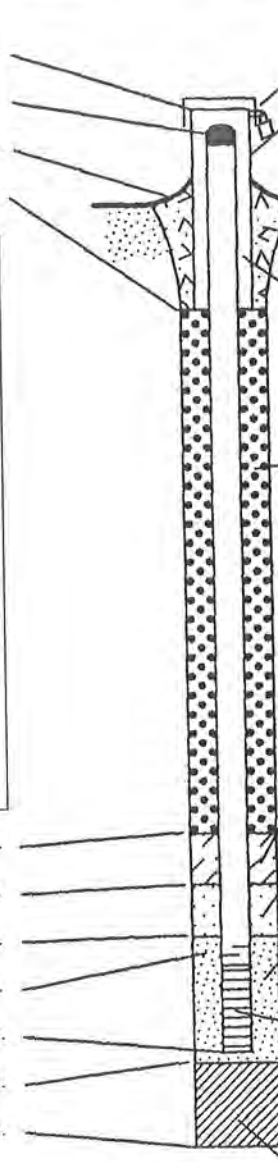
13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis): \_\_\_\_\_

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <p>E. Bentonite seal, top _____ ft. MSL or 1.0 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 5.45 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 7.45 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 9.45 ft.</p> <p>I. Well bottom _____ ft. MSL or 19.45 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 19.45 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 19.45 ft.</p> <p>L. Borehole, diameter 8 in.</p> <p>M. O.D. well casing 2.1 in.</p> <p>N. I.D. well casing 1.9 in.</p> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

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

Signature

Firm

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4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                              |                                                                                                                                                                                                            |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Facility/Project Name<br><b>Hedlund DX</b>                                                                                   | Local Grid Location of Well<br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | Well Name<br><b>MW-8</b>                                                           |
| Facility License Permit or Monitoring Number                                                                                 | Grid Origin Location                                                                                                                                                                                       | Wis. Unique Well Number _____ DNR Well Number _____                                |
| Type of Well<br>Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 2 | Section Location of Waste/Source <input type="checkbox"/> E                                                                                                                                                | Date Well Installed<br><b>1-11-17</b>                                              |
| Distance Well Is From Waste/Source Boundary<br>Ft. _____                                                                     | NW 1/4 of NW 1/4 of Sec. 19, T. 38 N, R. 17 <input checked="" type="checkbox"/> W                                                                                                                          | Well Installed By (Person's Name and Firm)<br><b>Gestra</b><br><b>Mitch Panfil</b> |
| Is Well A Point of Enforcement Std. Application<br><input type="checkbox"/> Yes <input type="checkbox"/> No                  | Location of Well Relative to Waste/Source<br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |                                                                                    |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_\_\_ ft. MSL  
C. Land surface elevation \_\_\_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

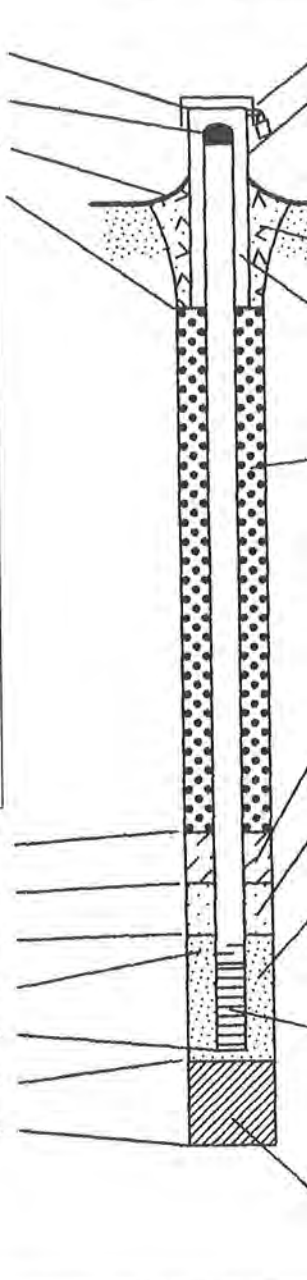
14. Drilling method used Rotary ☐ 50  
Hollow Stem Auger ☒ 41  
Other ☐

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 1.0 ft.  
F. Fine sand, top \_\_\_\_\_ ft. MSL or 2.65 ft.  
G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.15 ft.  
H. Screen joint, top \_\_\_\_\_ ft. MSL or 3.65 ft.  
I. Well bottom \_\_\_\_\_ ft. MSL or 13.65 ft.  
J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 13.65 ft.  
K. Borehole, bottom \_\_\_\_\_ ft. MSL or 13.65 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: 9 in.  
b. Length: 1 ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal: a. Granular Bentonite ☐ 33  
b. Lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. Lbs/gal mud weight Bentonite slurry ☐ 31  
d. % Bentonite Bentonite-cement grout ☐ 50  
e. ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal: a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter pack): None ☒ 14  
Other ☐

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                          |                                                                                                                                                                                                            |                                                      |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Facility/Project Name<br>Hedlund DX                                                                                      | Local Grid Location of Well<br>Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___                                                                                                                             | Well Name<br>MW-9                                    |
| Facility License Permit or Monitoring Number                                                                             | Grid Origin Location                                                                                                                                                                                       | Wis. Unique Well Number DNR Well Number              |
| Type of Well Water Table Observation Well <input checked="" type="checkbox"/> H<br>Piezometer <input type="checkbox"/> 2 | Section Location of Waste/Source <input type="checkbox"/> E                                                                                                                                                | Date Well Installed<br>1-11-17                       |
| Distance Well Is From Waste/Source Boundary<br>Ft. ___                                                                   | NW 1/4 of NW 1/4 of Sec. 19, T. 38 N. R. 17 <input checked="" type="checkbox"/> W                                                                                                                          | Well Installed By (Person's Name and Firm)<br>Gestra |
| Is Well A Point of Enforcement Std. Application<br><input type="checkbox"/> Yes <input type="checkbox"/> No              | Location of Well Relative to Waste/Source<br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | Mitch Panfil                                         |

A. Protective pipe, top elevation \_\_\_ ft. MSL  
B. Well casing, top elevation \_\_\_ ft. MSL  
C. Land surface elevation \_\_\_ ft. MSL  
D. Surface seal, bottom .5 ft. MSL or \_\_\_ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐  
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐  
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

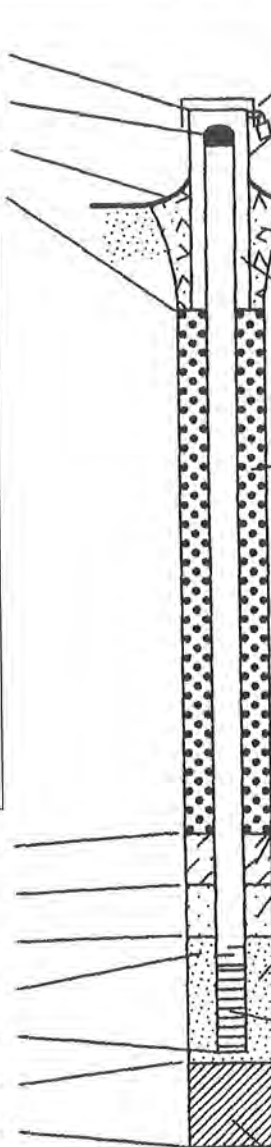
14. Drilling method used Rotary ☐ 50  
Hollow Stem Auger ☒ 41  
Other ☐

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

E. Bentonite seal, top \_\_\_ ft. MSL or 1.0 ft.  
F. Fine sand, top \_\_\_ ft. MSL or 3.75 ft.  
G. Filter pack, top \_\_\_ ft. MSL or 4.25 ft.  
H. Screen joint, top \_\_\_ ft. MSL or 4.85 ft.  
I. Well bottom \_\_\_ ft. MSL or 14.85 ft.  
J. Filter pack, bottom \_\_\_ ft. MSL or 14.85 ft.  
K. Borehole, bottom \_\_\_ ft. MSL or 14.85 ft.  
L. Borehole, diameter 8 in.  
M. O.D. well casing 2.1 in.  
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No  
2. Protective cover pipe:  
a. Inside diameter: 9 in.  
b. Length: 1 ft.  
c. Material: Steel ☒ 04  
Other ☐  
d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_  
3. Surface seal: Bentonite ☐ 30  
Concrete ☒ 01  
Other ☐  
4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐  
5. Annular space seal: a. Granular Bentonite ☐ 33  
b. Lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. Lbs/gal mud weight Bentonite slurry ☐ 31  
d. %Bentonite Bentonite-cement grout ☐ 50  
e. ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08  
6. Bentonite seal: a. Bentonite Granules ☐ 33  
b. 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. Other ☐  
7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>  
8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>  
9. Well casing: Flush threaded PVC schedule 40 ☒ 23  
Flush threaded PVC schedule 80 ☐ 24  
Other ☐  
10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: 10 in.  
d. Slotted length: 10 ft.  
11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐  
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

|                                                                                                                           |                                                                                                                                                                                                            |                                                      |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Facility/Project Name<br>Hedlund DX                                                                                       | Local Grid Location of Well<br>Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____                                                                                                                     | Well Name<br>MW-10                                   |
| Facility License Permit or Monitoring Number                                                                              | Grid Origin Location                                                                                                                                                                                       | Wis. Unique Well Number _____ DNR Well Number _____  |
| Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11<br>Piezometer <input type="checkbox"/> 2 | Section Location of Waste/Source <input type="checkbox"/> E                                                                                                                                                | Date Well Installed<br>1-12-17                       |
| Distance Well Is From Waste/Source Boundary<br>Ft. _____                                                                  | NW 1/4 of NW 1/4 of Sec. 19 T. 38 N. R. 17 <input checked="" type="checkbox"/> W                                                                                                                           | Well Installed By (Person's Name and Firm)<br>Gestra |
| Is Well A Point of Enforcement Std. Application<br><input type="checkbox"/> Yes <input type="checkbox"/> No               | Location of Well Relative to Waste/Source<br>u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient<br>d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | Mitch Panfil                                         |

A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL

B. Well casing, top elevation \_\_\_\_\_ ft. MSL

C. Land surface elevation \_\_\_\_\_ ft. MSL

D. Surface seal, bottom .5 ft. MSL or \_\_\_\_\_ ft.

12. USCS Classification of soil near screen:

|                                  |                             |                             |                             |                             |                             |
|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| GP <input type="checkbox"/>      | GM <input type="checkbox"/> | GC <input type="checkbox"/> | GW <input type="checkbox"/> | SW <input type="checkbox"/> | SP <input type="checkbox"/> |
| SM <input type="checkbox"/>      | SC <input type="checkbox"/> | ML <input type="checkbox"/> | MH <input type="checkbox"/> | CL <input type="checkbox"/> | CH <input type="checkbox"/> |
| Bedrock <input type="checkbox"/> |                             |                             |                             |                             |                             |

13. Sieve analysis attached? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No  
Describe \_\_\_\_\_

17. Source of water (attach analysis):  
\_\_\_\_\_

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:  
a. Inside diameter: \_\_\_\_\_ in.  
b. Length: \_\_\_\_\_ ft.  
c. Material: Steel ☒ 04  
Other ☐

d. Additional protection? ☐ Yes ☐ No  
If yes, describe: \_\_\_\_\_

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

4. Material between well casing and protective pipe: Bentonite ☒ 30  
Annular space seal ☐  
Other ☐

5. Annular space seal: a. Granular Bentonite ☐ 33  
b. \_\_\_\_\_ lbs/gal mud weight Bentonite-sand slurry ☐ 35  
c. \_\_\_\_\_ lbs/gal mud weight Bentonite slurry ☐ 31  
d. \_\_\_\_\_ % Bentonite Bentonite-cement grout ☐ 50  
e. \_\_\_\_\_ ft<sup>3</sup> Volume added for any of the above  
f. How installed: Tremie ☐ 01  
Tremie pumped ☐ 02  
Gravity ☒ 08

6. Bentonite seal: a. Bentonite Granules ☐ 33  
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32  
c. \_\_\_\_\_ Other ☐

7. Fine sand material Manufacturer, product name and mesh size  
a. #15 Red Flint  
b. Volume added 0.328 ft<sup>3</sup>

8. Filter pack material: Manufacturer, product name and mesh size  
a. #40 Red Flint  
b. Volume added 3.608 ft<sup>3</sup>

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

10. Screen material: PVC  
a. Screen type: Factory cut ☒ 11  
Continuous slot ☐ 01  
Other ☐  
b. Manufacturer U.S. Filter  
c. Slot size: \_\_\_\_\_ in.  
d. Slotted length: \_\_\_\_\_ ft.

11. Backfill material (below filter Pack): None ☒ 14  
Other ☐

E. Bentonite seal, top \_\_\_\_\_ ft. MSL or 0.0 ft.

F. Fine sand, top \_\_\_\_\_ ft. MSL or 3.09 ft.

G. Filter pack, top \_\_\_\_\_ ft. MSL or 3.69 ft.

H. Screen joint, top \_\_\_\_\_ ft. MSL or 4.29 ft.

I. Well bottom \_\_\_\_\_ ft. MSL or 14.29 ft.

J. Filter pack, bottom \_\_\_\_\_ ft. MSL or 14.29 ft.

K. Borehole, bottom \_\_\_\_\_ ft. MSL or 14.29 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.

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

Signature

Firm

REI Engineering, Inc.  
4080 N. 20th Ave.  
Wausau, WI 54401

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## **APPENDIX E**

### **WDNR MONITORING WELL DEVELOPMENT FORMS (FORM 4400-133B)**



|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW1        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 42 min.

4. Depth of well (from top of Casing) 16.16 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.77 gal.

7. Volume of water removed from well 20 gal.

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

9. Source of water added

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

Before Development

After Development

11. Depth to Water  
(from top of well casing)

a. 5.87 ft.

dry ft.

Data

b. 9/15/16

9/15/16

mm/dd/yy

☐ p.m.

☐ p.m.

Time

c. 10:20

☒ a.m.

11:22

☒ a.m.

12. Sediment in well bottom

6 inches

0 inches

13. Water clarity

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 10 gallons

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

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW2        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 77 min.

4. Depth of well (from top of Casing) 18.44 ft.

5. Inside diameter of well 2.07 in.

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

7. Volume of water removed from well 90 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing a. 2.48 ft.

5.32 ft.

Data mm/dd/yy b. 9/15/16

9/15/16

Time c. 11:27 ☐ p.m. ☐ a.m.

☐ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 10 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials:

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW3        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 46 min.

4. Depth of well (from top of Casing) 13.96 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.85 gal.

7. Volume of water removed from well 35 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 1.74 ft.

dry ft.

Data b. 9/15/16  
mm/dd/yy

9/15/16

Time c. 1:14 ☒ p.m. ☐ a.m.

☐ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 10 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.



|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW4        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 15 min.

4. Depth of well (from top of Casing) 14.32 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.84 gal.

7. Volume of water removed from well 15 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water  
(from top of well casing)

a. 2.18 ft.

dry ft.

Data

b. 9/15/16

9/15/16

mm/dd/yy

☒ p.m.

☒ p.m.

Time

c. 2:48

☐ a.m.

3:03

☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

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

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW5        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 46 min.

4. Depth of well (from top of Casing) 14.78 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.9 gal.

7. Volume of water removed from well 65 gal.

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

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing a. 2.46 ft.

7.61 ft.

Data mm/dd/yy b. 9/15/16

9/15/16

Time c. 4:26 ☒ p.m. ☐ a.m.

☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 20 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials:

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW6        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 29 min.

4. Depth of well (from top of Casing) 12.76 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.6 gal.

7. Volume of water removed from well 28 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water  
(from top of well casing)

a. 2.50 ft.

dry ft.

Data

b. 9/15/16

9/15/16

mm/dd/yy

☒ p.m.

☒ p.m.

Time

c. 6.31

☐ a.m.

7:00

☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

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

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge

Signature:

Print Initials:

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW7        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 58 min.

4. Depth of well (from top of Casing) 14.55 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 10.2 gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing a. 0.97 ft

10.52 ft.

Data mm/dd/yy b. 9/21/16

9/21/16

Time c. 8:17 ☐ p.m. ☒ a.m.

☐ p.m. ☒ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear at 10 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials: DNL

Firm: REI Engineering, Inc.



|                                               |                     |                         |
|-----------------------------------------------|---------------------|-------------------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW8        |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number |
|                                               |                     | DNR Well Number         |

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

2. Well development method

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

3. Time spent developing well 32 min.

4. Depth of well (from top of Casing) 13.75 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 9.2 gal.

7. Volume of water removed from well 40 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 4.59 ft.

4.90 ft.

Data mm/dd/yy b. 1-12-17

1-12-17

Time c. 8:28 ☐ p.m. ☒ a.m.

8:50 ☐ p.m. ☒ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 20 gallons

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

14. Total suspended solids mg/l mg/l

15. COD mg/l mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials:

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW9        |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 32 min.

4. Depth of well (from top of Casing) 14.85 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 11.01 gal.

7. Volume of water removed from well 45 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing)

a. 3.35 ft.

4.55 ft.

Data

mm/dd/yy

b. 1-12-17

1-12-17

Time

c. 9:28

☐ p.m.

☒ a.m.

☐ p.m.

9:50 ☒ a.m.

12. Sediment in well bottom

6 inches

0 inches

13. Water clarity

Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 40 gallons

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

14. Total suspended solids

mg/l

mg/l

15. COD

mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials:

Firm: REI Engineering, Inc.

|                                               |                     |                         |
|-----------------------------------------------|---------------------|-------------------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW10       |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number |
|                                               |                     | DNR Well Number         |

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

2. Well development method

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

3. Time spent developing well 28 min.

4. Depth of well (from top of Casing) 17.45 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 11.03 gal.

7. Volume of water removed from well 65 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing a. 5.83 ft.

7.22 ft.

Data mm/dd/yy b. 1-12-17

1-12-17

Time c. 12:15 ☒ p.m.

☐ a.m.

12:43

☒ p.m.

☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 30 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials: DWL

Firm: REI Engineering, Inc.

|                                               |                     |                         |                 |
|-----------------------------------------------|---------------------|-------------------------|-----------------|
| Facility/Project Name<br>Hedlund DX           | County Name<br>Polk | Well Name<br>MW11       |                 |
| Facility Licence, Permit or Monitoring Number | County Code<br>48   | Wis. Unique Well Number | DNR Well Number |

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

2. Well development method

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

3. Time spent developing well 20 min.

4. Depth of well (from top of Casing) 19.57 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 16.1 gal.

7. Volume of water removed from well 30 gal.

8. Volume of water added (If any) 0 gal.

9. Source of water added

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

Before Development

After Development

11. Depth to Water

(from top of well casing) a. 2.63 ft.

3.36 ft.

Data mm/dd/yy b. 1-12-17

1-12-17

Time c. 4:55 ☒ p.m. ☐ a.m.

5:15 ☒ p.m. ☐ a.m.

12. Sediment in well bottom 6 inches

0 inches

13. Water clarity Clear ☐ 10  
Turbid ☒ 15  
(Describe)

Clear ☒ 10  
Turbid ☐ 15  
(Describe)

Clear at 20 gallons

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

14. Total suspended solids mg/l

mg/l

15. COD mg/l

mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.  
4020 N 20th Ave.  
Wausau, WI 54401

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

Signature:

Print Initials:

Firm: REI Engineering, Inc.



## **APPENDIX F**

### **WDNR BOREHOLE ABANDONMENT FORMS (FORM 3300-5)**



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

|                                                             |                                           |                                         |                                               |                                                               |
|-------------------------------------------------------------|-------------------------------------------|-----------------------------------------|-----------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Verification Only of Fill and Seal | Route to DNR Bureau:                      | <input type="checkbox"/> Drinking Water | <input type="checkbox"/> Watershed/Wastewater | <input checked="" type="checkbox"/> Remediation/Redevelopment |
|                                                             | <input type="checkbox"/> Waste Management | <input type="checkbox"/> Other: _____   |                                               |                                                               |

| 1. Well Location Information                                                                                              |  |                                                                            |  | 2. Facility / Owner Information                                                                                                                                                        |  |                                                        |                   |
|---------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|-------------------|
| County<br>Burnett                                                                                                         |  | WI Unique Well # of Removed Well<br>GP1                                    |  | Hicap #                                                                                                                                                                                |  | Facility Name<br>Hedlund DX                            |                   |
| Latitude / Longitude (see instructions)<br>N<br>W                                                                         |  | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM |  | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001                                                                   |  | Facility ID (FID or PWS)<br>807049540                  |                   |
| 1/4 NW 1/4 NW<br>or Gov't Lot #                                                                                           |  | Section<br>19                                                              |  | Township<br>38 N                                                                                                                                                                       |  | Range<br>17 E<br><input checked="" type="checkbox"/> W |                   |
| Well Street Address<br>10557 State Highway 70                                                                             |  |                                                                            |  | Original Well Owner<br>Burnett County                                                                                                                                                  |  |                                                        |                   |
| Well City, Village or Town<br>Town of Daniels                                                                             |  |                                                                            |  | Present Well Owner<br>Burnett County                                                                                                                                                   |  |                                                        |                   |
| Subdivision Name                                                                                                          |  |                                                                            |  | Mailing Address of Present Owner<br>10557 State Highway 70                                                                                                                             |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | City of Present Owner<br>Town of Daniels                                                                                                                                               |  | State<br>WI                                            | ZIP Code<br>54840 |
| Reason for Removal from Service<br>Temporary Borehole                                                                     |  | WI Unique Well # of Replacement Well<br>GP1                                |  | 4. Pump, Liner, Screen, Casing & Sealing Material                                                                                                                                      |  |                                                        |                   |
| <input type="checkbox"/> Monitoring Well                                                                                  |  | Original Construction Date (mm/dd/yyyy)<br>8/8/16                          |  | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                              |  |                                                        |                   |
| <input type="checkbox"/> Water Well                                                                                       |  | If a Well Construction Report is available, please attach.                 |  | Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                     |  |                                                        |                   |
| <input checked="" type="checkbox"/> Borehole / Drillhole                                                                  |  |                                                                            |  | Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                  |  |                                                        |                   |
| Construction Type:                                                                                                        |  |                                                                            |  | Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                       |  |                                                        |                   |
| <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug                 |  |                                                                            |  | Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                 |  |                                                        |                   |
| <input checked="" type="checkbox"/> Other (specify): Geoprobe                                                             |  |                                                                            |  | Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                     |  |                                                        |                   |
| Formation Type:                                                                                                           |  |                                                                            |  | Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                                 |  |                                                        |                   |
| <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock                             |  |                                                                            |  | Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                                   |  |                                                        |                   |
| Total Well Depth From Ground Surface (ft.)<br>15'                                                                         |  | Casing Diameter (in.)<br>2"                                                |  | If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                            |  |                                                        |                   |
| Lower Drillhole Diameter (in.)                                                                                            |  | Casing Depth (ft.)                                                         |  | If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |                                                        |                   |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |  | Depth to Water (feet)                                                      |  | Required Method of Placing Sealing Material                                                                                                                                            |  |                                                        |                   |
| If yes, to what depth (feet)?                                                                                             |  |                                                                            |  | <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped                                                                                         |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____                                                                |  |                                                        |                   |
| 5. Material Used to Fill Well / Drillhole                                                                                 |  |                                                                            |  | Sealing Materials                                                                                                                                                                      |  |                                                        |                   |
| Granular bentonite                                                                                                        |  |                                                                            |  | <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete                                                                                                           |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips                                                                                         |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | For Monitoring Wells and Monitoring Well Boreholes Only:                                                                                                                               |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout                                                                                             |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry                                                                                |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight                                                                                            |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  | Surface 15' 1/2 Bag                                                                                                                                                                    |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  |                                                                                                                                                                                        |  |                                                        |                   |
|                                                                                                                           |  |                                                                            |  |                                                                                                                                                                                        |  |                                                        |                   |
| 6. Comments                                                                                                               |  |                                                                            |  |                                                                                                                                                                                        |  |                                                        |                   |
| 7. Supervision of Work                                                                                                    |  |                                                                            |  |                                                                                                                                                                                        |  |                                                        |                   |
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering                                     |  | License #                                                                  |  | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br>8/8/16                                                                                                                       |  | DNR Use Only                                           |                   |
| Street or Route<br>4080 N. 20th Avenue                                                                                    |  | Telephone Number<br>(715) 675-9784                                         |  | Date Received                                                                                                                                                                          |  | Noted By                                               |                   |
| City<br>Wausau                                                                                                            |  | State<br>WI                                                                |  | ZIP Code<br>54401                                                                                                                                                                      |  | Comments                                               |                   |
|                                                                                                                           |  |                                                                            |  | Signature of Person Doing Work                                                                                                                                                         |  | Date Signed<br>3-26-17                                 |                   |



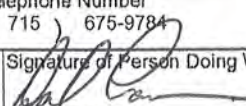
# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

|                                                                    |                                                                                      |                                                                                                                                                         |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> <b>Verification Only of Fill and Seal</b> | <b>Route to DNR Bureau:</b>                                                          |                                                                                                                                                         |
|                                                                    | <input type="checkbox"/> Drinking Water<br><input type="checkbox"/> Waste Management | <input type="checkbox"/> Watershed/Wastewater<br><input checked="" type="checkbox"/> Remediation/Redevelopment<br><input type="checkbox"/> Other: _____ |

| 1. Well Location Information                                                                                              |  |                                                                                                  |  | 2. Facility / Owner Information                                                                                      |  |                                                                                                                        |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|
| County<br>Burnett                                                                                                         |  | WI Unique Well # of Removed Well<br>GP2                                                          |  | Hicap #                                                                                                              |  | Facility Name<br>Hedlund DX                                                                                            |  |
| Latitude / Longitude (see instructions)<br>N _____<br>W _____                                                             |  | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM                       |  | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |  | Facility ID (FID or PWS)<br>807049540                                                                                  |  |
| 1/4 / 1/4 NW    1/4 NW<br>or Gov't Lot #                                                                                  |  | Section<br>19                                                                                    |  | Township<br>38 N                                                                                                     |  | Range<br>17 <input type="checkbox"/> E<br><input checked="" type="checkbox"/> W                                        |  |
| Well Street Address<br>10557 State Highway 70                                                                             |  |                                                                                                  |  | Original Well Owner<br>Burnett County                                                                                |  |                                                                                                                        |  |
| Well City, Village or Town<br>Town of Daniels                                                                             |  |                                                                                                  |  | Present Well Owner<br>Burnett County                                                                                 |  |                                                                                                                        |  |
| Subdivision Name                                                                                                          |  |                                                                                                  |  | Mailing Address of Present Owner<br>10557 State Highway 70                                                           |  |                                                                                                                        |  |
| Reason for Removal from Service<br>Temporary Borehole                                                                     |  |                                                                                                  |  | City of Present Owner<br>Town of Daniels                                                                             |  |                                                                                                                        |  |
| WI Unique Well # of Replacement Well<br>GP2                                                                               |  |                                                                                                  |  | State<br>WI                                                                                                          |  | ZIP Code<br>54840                                                                                                      |  |
| 3. Filled & Sealed Well / Drillhole / Borehole Information                                                                |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Monitoring Well                                                                                  |  | Original Construction Date (mm/dd/yyyy)<br>8/8/16                                                |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Water Well                                                                                       |  | If a Well Construction Report is available, please attach.                                       |  |                                                                                                                      |  |                                                                                                                        |  |
| <input checked="" type="checkbox"/> Borehole / Drillhole                                                                  |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| Construction Type:                                                                                                        |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Drilled                                                                                          |  | <input type="checkbox"/> Driven (Sandpoint)                                                      |  | <input type="checkbox"/> Dug                                                                                         |  |                                                                                                                        |  |
| <input checked="" type="checkbox"/> Other (specify): Geoprobe                                                             |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| Formation Type:                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input checked="" type="checkbox"/> Unconsolidated Formation                                                              |  | <input type="checkbox"/> Bedrock                                                                 |  |                                                                                                                      |  |                                                                                                                        |  |
| Total Well Depth From Ground Surface (ft.)<br>15'                                                                         |  | Casing Diameter (in.)<br>2"                                                                      |  |                                                                                                                      |  |                                                                                                                        |  |
| Lower Drillhole Diameter (in.)                                                                                            |  | Casing Depth (ft.)                                                                               |  |                                                                                                                      |  |                                                                                                                        |  |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| If yes, to what depth (feet)?                                                                                             |  | Depth to Water (feet)                                                                            |  |                                                                                                                      |  |                                                                                                                        |  |
| 4. Pump, Liner, Screen, Casing & Sealing Material                                                                         |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| Pump and piping removed?                                                                                                  |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Liner(s) removed?                                                                                                         |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Liner(s) perforated?                                                                                                      |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Screen removed?                                                                                                           |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Casing left in place?                                                                                                     |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Was casing cut off below surface?                                                                                         |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Did sealing material rise to surface?                                                                                     |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Did material settle after 24 hours?                                                                                       |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| If yes, was hole retopped?                                                                                                |  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| If bentonite chips were used, were they hydrated with water from a known safe source?                                     |  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  |                                                                                                                      |  |                                                                                                                        |  |
| Required Method of Placing Sealing Material                                                                               |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Conductor Pipe-Gravity                                                                           |  | <input type="checkbox"/> Conductor Pipe-Pumped                                                   |  |                                                                                                                      |  |                                                                                                                        |  |
| <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)                                                   |  | <input type="checkbox"/> Other (Explain): _____                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| Sealing Materials                                                                                                         |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Neat Cement Grout                                                                                |  | <input type="checkbox"/> Concrete                                                                |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Sand-Cement (Concrete) Grout                                                                     |  | <input type="checkbox"/> Bentonite Chips                                                         |  |                                                                                                                      |  |                                                                                                                        |  |
| For Monitoring Wells and Monitoring Well Boreholes Only:                                                                  |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| <input type="checkbox"/> Bentonite Chips                                                                                  |  | <input type="checkbox"/> Bentonite - Cement Grout                                                |  |                                                                                                                      |  |                                                                                                                        |  |
| <input checked="" type="checkbox"/> Granular Bentonite                                                                    |  | <input type="checkbox"/> Bentonite - Sand Slurry                                                 |  |                                                                                                                      |  |                                                                                                                        |  |
| 5. Material Used to Fill Well / Drillhole                                                                                 |  |                                                                                                  |  | DNR Use Only                                                                                                         |  |                                                                                                                        |  |
| From (ft.)                                                                                                                |  | To (ft.)                                                                                         |  | No. Yards, Sacks Sealant or Volume (circle one)                                                                      |  | Mix Ratio or Mud Weight                                                                                                |  |
| Granular bentonite                                                                                                        |  | Surface                                                                                          |  | 15'                                                                                                                  |  | 1/2 Bag                                                                                                                |  |
|                                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
|                                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| 6. Comments                                                                                                               |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
|                                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
|                                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  |                                                                                                                        |  |
| 7. Supervision of Work                                                                                                    |  |                                                                                                  |  | DNR Use Only                                                                                                         |  |                                                                                                                        |  |
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering                                     |  | License #                                                                                        |  | Date of Filling & Sealing or Verification (mm/dd/yyyy)<br>8/8/16                                                     |  | Date Received                                                                                                          |  |
| Street or Route<br>4080 N. 20th Avenue                                                                                    |  | Telephone Number<br>( 715 ) 675-9784                                                             |  | Comments                                                                                                             |  | Noted By                                                                                                               |  |
| City<br>Wausau                                                                                                            |  | State<br>WI                                                                                      |  | ZIP Code<br>54401                                                                                                    |  | Signature of Person Doing Work<br> |  |
|                                                                                                                           |  |                                                                                                  |  |                                                                                                                      |  | Date Signed<br>3-28-17                                                                                                 |  |



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

☐ Verification Only of Fill and Seal

### Route to DNR Bureau:

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

| 1. Well Location Information                                                                                                                                                                     |  |                                                                            |                                                                  | 2. Facility / Owner Information                                                                                      |               |                                                                                                                                                                                           |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| County<br>Burnett                                                                                                                                                                                |  | WI Unique Well # of<br>Removed Well<br>GP3                                 |                                                                  | Hicap #                                                                                                              |               | Facility Name<br>Hedlund DX                                                                                                                                                               |                   |
| Latitude / Longitude (see instructions)<br>N<br>W                                                                                                                                                |  | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM |                                                                  | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |               | Facility ID (FID or PWS)<br>807049540                                                                                                                                                     |                   |
| 1/4 NW<br>or Gov't Lot #                                                                                                                                                                         |  | Section<br>19                                                              |                                                                  | Township<br>38 N                                                                                                     |               | Range<br>17 E<br><input checked="" type="checkbox"/> W                                                                                                                                    |                   |
| Well Street Address<br>10557 State Highway 70                                                                                                                                                    |  |                                                                            |                                                                  | Original Well Owner<br>Burnett County                                                                                |               |                                                                                                                                                                                           |                   |
| Well City, Village or Town<br>Town of Daniels                                                                                                                                                    |  |                                                                            |                                                                  | Present Well Owner<br>Burnett County                                                                                 |               |                                                                                                                                                                                           |                   |
| Subdivision Name                                                                                                                                                                                 |  |                                                                            |                                                                  | Mailing Address of Present Owner<br>10557 State Highway 70                                                           |               |                                                                                                                                                                                           |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  | City of Present Owner<br>Town of Daniels                                                                             |               | State<br>WI                                                                                                                                                                               | ZIP Code<br>54840 |
| Reason for Removal from Service<br>Temporary Borehole                                                                                                                                            |  |                                                                            |                                                                  | WI Unique Well # of Replacement Well<br>GP3                                                                          |               |                                                                                                                                                                                           |                   |
| <b>3. Filled &amp; Sealed Well / Drillhole / Borehole Information</b>                                                                                                                            |  |                                                                            |                                                                  | <b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>                                                         |               |                                                                                                                                                                                           |                   |
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole                                                      |  | Original Construction Date (mm/dd/yyyy)<br>8/8/16                          |                                                                  | If a Well Construction Report is available,<br>please attach.                                                        |               | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                 |                   |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): Geoprobe |  |                                                                            |                                                                  |                                                                                                                      |               | Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                        |                   |
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock                                                                                 |  |                                                                            |                                                                  |                                                                                                                      |               | Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                     |                   |
| Total Well Depth From Ground Surface (ft.)<br>15'                                                                                                                                                |  | Casing Diameter (in.)<br>2"                                                |                                                                  |                                                                                                                      |               | Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                          |                   |
| Lower Drillhole Diameter (in.)                                                                                                                                                                   |  | Casing Depth (ft.)                                                         |                                                                  |                                                                                                                      |               | Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                    |                   |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown                                                                        |  | If yes, to what depth (feet)?                                              |                                                                  | Depth to Water (feet)                                                                                                |               | Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                        |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                                    |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                                      |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                               |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | If bentonite chips were used, were they hydrated<br>with water from a known safe source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | Required Method of Placing Sealing Material                                                                                                                                               |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped                                                                                            |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):                                                                         |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | Sealing Materials                                                                                                                                                                         |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete                                                                                                              |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips                                                                                            |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | For Monitoring Wells and Monitoring Well Boreholes Only:                                                                                                                                  |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout                                                                                                |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               | <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry                                                                                   |                   |
| <b>5. Material Used to Fill Well / Drillhole</b>                                                                                                                                                 |  |                                                                            |                                                                  | <b>6. Comments</b>                                                                                                   |               |                                                                                                                                                                                           |                   |
| Granular bentonite                                                                                                                                                                               |  | From (ft.)<br>Surface                                                      | To (ft.)<br>15'                                                  | No. Yards, Sacks Sealant or<br>Volume (circle one)<br>1/2 Bag                                                        |               | Mix Ratio or<br>Mud Weight                                                                                                                                                                |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               |                                                                                                                                                                                           |                   |
|                                                                                                                                                                                                  |  |                                                                            |                                                                  |                                                                                                                      |               |                                                                                                                                                                                           |                   |
| <b>7. Supervision of Work</b>                                                                                                                                                                    |  |                                                                            |                                                                  | <b>DNR Use Only</b>                                                                                                  |               |                                                                                                                                                                                           |                   |
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering                                                                                                            |  | License #                                                                  | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16 |                                                                                                                      | Date Received |                                                                                                                                                                                           | Noted By          |
| Street or Route<br>4080 N. 20th Avenue                                                                                                                                                           |  | Telephone Number<br>( 715 ) 675-9784                                       |                                                                  | Comments                                                                                                             |               |                                                                                                                                                                                           |                   |
| City<br>Wausau                                                                                                                                                                                   |  | State<br>WI                                                                | ZIP Code<br>54401                                                | Signature of Person Doing Work                                                                                       |               | Date Signed<br>3-28-17                                                                                                                                                                    |                   |



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

## Verification Only of Fill and Seal

### Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

| 1. Well Location Information                                                                                                                                                                     |             |                                                                            |                                                                 | 2. Facility / Owner Information                                                                                                                                                                                                                                   |                        |                                                        |                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------------------|-------------------|
| County<br>Burnett                                                                                                                                                                                |             | WI Unique Well # of Removed Well<br>GP4A                                   |                                                                 | Facility Name<br>Hedlund DX                                                                                                                                                                                                                                       |                        | Facility ID (FID or PWS)<br>807049540                  |                   |
| Latitude / Longitude (see instructions)<br>N _____<br>W _____                                                                                                                                    |             | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM |                                                                 | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001                                                                                                                                              |                        | License/Permit/Monitoring #                            |                   |
| 1/4 NW 1/4 NW<br>or Gov't Lot #                                                                                                                                                                  |             | Section<br>19                                                              |                                                                 | Township<br>38 N                                                                                                                                                                                                                                                  |                        | Range<br>17 E<br><input checked="" type="checkbox"/> W |                   |
| Well Street Address<br>10557 State Highway 70                                                                                                                                                    |             |                                                                            |                                                                 | Original Well Owner<br>Burnett County                                                                                                                                                                                                                             |                        |                                                        |                   |
| Well City, Village or Town<br>Town of Daniels                                                                                                                                                    |             |                                                                            |                                                                 | Present Well Owner<br>Burnett County                                                                                                                                                                                                                              |                        |                                                        |                   |
| Subdivision Name                                                                                                                                                                                 |             |                                                                            |                                                                 | Mailing Address of Present Owner<br>10557 State Highway 70                                                                                                                                                                                                        |                        |                                                        |                   |
|                                                                                                                                                                                                  |             |                                                                            |                                                                 | City of Present Owner<br>Town of Daniels                                                                                                                                                                                                                          |                        | State<br>WI                                            | ZIP Code<br>54840 |
| 3. Filled & Sealed Well / Drillhole / Borehole Information                                                                                                                                       |             |                                                                            |                                                                 | 4. Pump, Liner, Screen, Casing & Sealing Material                                                                                                                                                                                                                 |                        |                                                        |                   |
| Reason for Removal from Service<br>Temporary Borehole                                                                                                                                            |             | WI Unique Well # of Replacement Well<br>GP4A                               |                                                                 | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                         |                        |                                                        |                   |
| <input type="checkbox"/> Monitoring Well                                                                                                                                                         |             | Original Construction Date (mm/dd/yyyy)<br>8/8/16                          |                                                                 | Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                |                        |                                                        |                   |
| <input type="checkbox"/> Water Well                                                                                                                                                              |             | If a Well Construction Report is available, please attach.                 |                                                                 | Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                             |                        |                                                        |                   |
| <input checked="" type="checkbox"/> Borehole / Drillhole                                                                                                                                         |             |                                                                            |                                                                 | Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                  |                        |                                                        |                   |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): Geoprobe |             |                                                                            |                                                                 | Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                            |                        |                                                        |                   |
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock                                                                                 |             |                                                                            |                                                                 | Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                |                        |                                                        |                   |
| Total Well Depth From Ground Surface (ft.)<br>10'                                                                                                                                                |             | Casing Diameter (in.)<br>2"                                                |                                                                 | Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                                                                                                            |                        |                                                        |                   |
| Lower Drillhole Diameter (in.)                                                                                                                                                                   |             | Casing Depth (ft.)                                                         |                                                                 | Did material settle after 24 hours?<br>If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                |                        |                                                        |                   |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown                                                                        |             |                                                                            |                                                                 | If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                                                            |                        |                                                        |                   |
| If yes, to what depth (feet)?                                                                                                                                                                    |             |                                                                            |                                                                 | Depth to Water (feet)                                                                                                                                                                                                                                             |                        |                                                        |                   |
| 5. Material Used to Fill Well / Drillhole                                                                                                                                                        |             |                                                                            |                                                                 | Required Method of Placing Sealing Material                                                                                                                                                                                                                       |                        |                                                        |                   |
| Granular bentonite                                                                                                                                                                               |             |                                                                            |                                                                 | <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped                                                                                                                                                                    |                        |                                                        |                   |
|                                                                                                                                                                                                  |             |                                                                            |                                                                 | <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):                                                                                                                                                 |                        |                                                        |                   |
|                                                                                                                                                                                                  |             |                                                                            |                                                                 | Sealing Materials<br><input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete<br><input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips                                                               |                        |                                                        |                   |
|                                                                                                                                                                                                  |             |                                                                            |                                                                 | For Monitoring Wells and Monitoring Well Boreholes Only:<br><input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout<br><input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry |                        |                                                        |                   |
| 6. Comments                                                                                                                                                                                      |             |                                                                            |                                                                 |                                                                                                                                                                                                                                                                   |                        |                                                        |                   |
| 7. Supervision of Work                                                                                                                                                                           |             |                                                                            |                                                                 | DNR Use Only                                                                                                                                                                                                                                                      |                        |                                                        |                   |
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering                                                                                                            |             | License #                                                                  | Date of Filing & Sealing or Verification (mm/dd/yyyy)<br>8/8/16 | Date Received                                                                                                                                                                                                                                                     |                        | Noted By                                               |                   |
| Street or Route<br>4080 N. 20th Avenue                                                                                                                                                           |             | Telephone Number<br>( 715 ) 675-9784                                       |                                                                 | Comments                                                                                                                                                                                                                                                          |                        |                                                        |                   |
| City<br>Wausau                                                                                                                                                                                   | State<br>WI | ZIP Code<br>54401                                                          | Signature of Person Doing Work<br>                              |                                                                                                                                                                                                                                                                   | Date Signed<br>3-26-17 |                                                        |                   |



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

☐ Verification Only of Fill and Seal

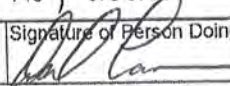
## Route to DNR Bureau:

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

| 1. Well Location Information                                                                                              |          |                                                                         |                         | 2. Facility / Owner Information                                                                                                                                                                                                                                                                                                             |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------|--|------------|----------|-------------------------------------------------|-------------------------|---------|----|---------|--|--|--|--|--|
| County<br>Burnett                                                                                                         |          | WI Unique Well # of Removed Well<br>GP4B                                |                         | Hicap #                                                                                                                                                                                                                                                                                                                                     |  | Facility Name<br>Hedlund DX                                                  |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Latitude / Longitude (see instructions)<br>_____ N _____ W                                                                |          | Format Code<br><input type="checkbox"/> DD <input type="checkbox"/> DDM |                         | Method Code<br><input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001                                                                                                                                                                                                                              |  | Facility ID (FID or PWS)<br>807049540                                        |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| 1/4 1/4 NW 1/4 NW<br>or Gov't Lot #                                                                                       |          | Section<br>19                                                           |                         | Township<br>38 N                                                                                                                                                                                                                                                                                                                            |  | Range<br>17 E <input type="checkbox"/> W <input checked="" type="checkbox"/> |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Well Street Address<br>10557 State Highway 70                                                                             |          |                                                                         |                         | Original Well Owner<br>Burnett County                                                                                                                                                                                                                                                                                                       |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Well City, Village or Town<br>Town of Daniels                                                                             |          |                                                                         |                         | Present Well Owner<br>Burnett County                                                                                                                                                                                                                                                                                                        |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Subdivision Name                                                                                                          |          |                                                                         |                         | Mailing Address of Present Owner<br>10557 State Highway 70                                                                                                                                                                                                                                                                                  |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | City of Present Owner<br>Town of Daniels                                                                                                                                                                                                                                                                                                    |  | State<br>WI                                                                  |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         |                                                                                                                                                                                                                                                                                                                                             |  | ZIP Code<br>54840                                                            |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Reason for Removal from Service<br>Temporary Borehole                                                                     |          | WI Unique Well # of Replacement Well<br>GP4B                            |                         | 4. Pump, Liner, Screen, Casing & Sealing Material                                                                                                                                                                                                                                                                                           |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input type="checkbox"/> Monitoring Well                                                                                  |          | Original Construction Date (mm/dd/yyyy)<br>8/8/16                       |                         | Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                   |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input type="checkbox"/> Water Well                                                                                       |          | If a Well Construction Report is available, please attach.              |                         | Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                          |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input checked="" type="checkbox"/> Borehole / Drillhole                                                                  |          |                                                                         |                         | Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                       |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Construction Type:                                                                                                        |          |                                                                         |                         | Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                            |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug                 |          |                                                                         |                         | Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                      |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input checked="" type="checkbox"/> Other (specify): Geoprobe                                                             |          |                                                                         |                         | Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                          |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Formation Type:                                                                                                           |          |                                                                         |                         | Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A                                                                                                                                                                                                      |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock                             |          |                                                                         |                         | Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                                                                                                                                                                                        |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Total Well Depth From Ground Surface (ft.)<br>5'                                                                          |          | Casing Diameter (in.)<br>2"                                             |                         | If yes, was hole relapped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A                                                                                                                                                                                                                 |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Lower Drillhole Diameter (in.)                                                                                            |          | Casing Depth (ft.)                                                      |                         | If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A                                                                                                                                                      |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |          | Depth to Water (feet)                                                   |                         | Required Method of Placing Sealing Material                                                                                                                                                                                                                                                                                                 |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| If yes, to what depth (feet)?                                                                                             |          |                                                                         |                         | <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped                                                                                                                                                                                                                                              |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____                                                                                                                                                                                                                     |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| 5. Material Used to Fill Well / Drillhole                                                                                 |          |                                                                         |                         | Sealing Materials                                                                                                                                                                                                                                                                                                                           |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Granular bentonite                                                                                                        |          |                                                                         |                         | <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete                                                                                                                                                                                                                                                                |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite Chips                                                                                                                                                                                                                                              |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | For Monitoring Wells and Monitoring Well Boreholes Only:                                                                                                                                                                                                                                                                                    |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout                                                                                                                                                                                                                                                  |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | <input checked="" type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry                                                                                                                                                                                                                                     |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>From (ft.)</th> <th>To (ft.)</th> <th>No. Yards, Sacks Sealant or Volume (circle one)</th> <th>Mix Ratio or Mud Weight</th> </tr> <tr> <td>Surface</td> <td>5'</td> <td>1/5 Bag</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> |  |                                                                              |  | From (ft.) | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight | Surface | 5' | 1/5 Bag |  |  |  |  |  |
| From (ft.)                                                                                                                | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one)                         | Mix Ratio or Mud Weight |                                                                                                                                                                                                                                                                                                                                             |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
| Surface                                                                                                                   | 5'       | 1/5 Bag                                                                 |                         |                                                                                                                                                                                                                                                                                                                                             |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |
|                                                                                                                           |          |                                                                         |                         |                                                                                                                                                                                                                                                                                                                                             |  |                                                                              |  |            |          |                                                 |                         |         |    |         |  |  |  |  |  |

## 6. Comments

## 7. Supervision of Work

| Supervision of Work                                                                   |             |                                      |                                                                                                                        | DNR Use Only           |          |
|---------------------------------------------------------------------------------------|-------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------|----------|
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering |             | License #                            | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16                                                       | Date Received          | Noted By |
| Street or Route<br>4080 N. 20th Avenue                                                |             | Telephone Number<br>( 715 ) 675-9784 |                                                                                                                        | Comments               |          |
| City<br>Wausau                                                                        | State<br>WI | ZIP Code<br>54401                    | Signature of Person Doing Work<br> | Date Signed<br>3-26-17 |          |



## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

☐ Verification Only of Fill and Seal

Route to DNR Bureau:

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

### 1. Well Location Information

|                                                   |                                                                            |                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| County<br>Burnett                                 | WI Unique Well # of<br>Removed Well<br>GP5                                 | Hicap #                                                                                                              |
| Latitude / Longitude (see instructions)<br>N<br>W | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |
| 1/4 1/4 NW<br>or Gov't Lot #                      | Section<br>19                                                              | Township<br>38 N                                                                                                     |
| Well Street Address<br>10557 State Highway 70     | Range<br>17                                                                | End<br><input type="checkbox"/> E<br><input checked="" type="checkbox"/> W                                           |
| Well City, Village or Town<br>Town of Daniels     | Well ZIP Code<br>54840                                                     |                                                                                                                      |
| Subdivision Name                                  | Lot #                                                                      |                                                                                                                      |

### 2. Facility / Owner Information

|                                                            |             |                   |
|------------------------------------------------------------|-------------|-------------------|
| Facility Name<br>Hedlund DX                                |             |                   |
| Facility ID (FID or PWS)<br>807049540                      |             |                   |
| License/Permit/Monitoring #                                |             |                   |
| Original Well Owner<br>Burnett County                      |             |                   |
| Present Well Owner<br>Burnett County                       |             |                   |
| Mailing Address of Present Owner<br>10557 State Highway 70 |             |                   |
| City of Present Owner<br>Town of Daniels                   | State<br>WI | ZIP Code<br>54840 |

Reason for Removal from Service  
Temporary Borehole

WI Unique Well # of Replacement Well  
GP5

### 3. Filled & Sealed Well / Drillhole / Borehole Information

|                                                                                                                                                                                                  |                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole                                                      | Original Construction Date (mm/dd/yyyy)<br>8/8/16 |
| If a Well Construction Report is available,<br>please attach.                                                                                                                                    |                                                   |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): Geoprobe |                                                   |

|                                                                                                                  |                             |
|------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Formation Type:<br><input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock |                             |
| Total Well Depth From Ground Surface (ft.)<br>15'                                                                | Casing Diameter (in.)<br>2" |
| Lower Drillhole Diameter (in.)                                                                                   | Casing Depth (ft.)          |

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

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

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

|                                                                                          |                                                                                                  |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Pump and piping removed?                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) removed?                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Liner(s) perforated?                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Screen removed?                                                                          | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Casing left in place?                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Was casing cut off below surface?                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| Did sealing material rise to surface?                                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| Did material settle after 24 hours?                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| If yes, was hole relapped?                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |
| If bentonite chips were used, were they hydrated<br>with water from a known safe source? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |

#### Required Method of Placing Sealing Material

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

#### Sealing Materials

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

#### For Monitoring Wells and Monitoring Well Boreholes Only:

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

### 5. Material Used to Fill Well / Drillhole

| From (ft.) | To (ft.) | No. Yards, Sacks Sealant or<br>Volume (circle one) | Mix Ratio or<br>Mud Weight |
|------------|----------|----------------------------------------------------|----------------------------|
| Surface    | 15'      | 1/2 Bag                                            |                            |

### 6. Comments

### 7. Supervision of Work

|                                                                                       |                                      |                                                                  |                                    |                        |
|---------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------|------------------------------------|------------------------|
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering | License #                            | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16 | DNR Use Only                       |                        |
| Street or Route<br>4080 N. 20th Avenue                                                | Telephone Number<br>( 715 ) 675-9784 | Comments                                                         | Date Received                      | Noted By               |
| City<br>Wausau                                                                        | State<br>WI                          | ZIP Code<br>54401                                                | Signature of Person Doing Work<br> | Date Signed<br>8-28-17 |



## Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

☐ Verification Only of Fill and Seal

**Route to DNR Bureau:**

☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

### 1. Well Location Information

|                                                   |                                                                            |                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| County<br>Burnett                                 | WI Unique Well # of<br>Removed Well<br>GP6A                                | Hicap #                                                                                                              |
| Latitude / Longitude (see instructions)<br>N<br>W | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |
| 1/4 1/4 NW<br>or Gov't Lot #                      | Section<br>19                                                              | Township<br>38 N                                                                                                     |
| Well Street Address<br>10557 State Highway 70     | Range<br>17                                                                | Original Well Owner<br>Burnett County                                                                                |
| Well City, Village or Town<br>Town of Daniels     | Well ZIP Code<br>54840                                                     | Present Well Owner<br>Burnett County                                                                                 |
| Subdivision Name                                  | Lot #                                                                      | Mailing Address of Present Owner<br>10557 State Highway 70                                                           |

### 2. Facility / Owner Information

|                                                            |             |                   |
|------------------------------------------------------------|-------------|-------------------|
| Facility Name<br>Hedlund DX                                |             |                   |
| Facility ID (FID or PWS)<br>807049540                      |             |                   |
| License/Permit/Monitoring #                                |             |                   |
| Original Well Owner<br>Burnett County                      |             |                   |
| Present Well Owner<br>Burnett County                       |             |                   |
| Mailing Address of Present Owner<br>10557 State Highway 70 |             |                   |
| City of Present Owner<br>Town of Daniels                   | State<br>WI | ZIP Code<br>54840 |

Reason for Removal from Service  
Temporary Borehole

WI Unique Well # of Replacement Well  
GP6A

### 3. Filled & Sealed Well / Drillhole / Borehole Information

|                                                                                                                                                                                                  |                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Monitoring Well                                                                                                                                                         | Original Construction Date (mm/dd/yyyy)<br>8/8/16             |
| <input type="checkbox"/> Water Well                                                                                                                                                              | If a Well Construction Report is available,<br>please attach. |
| <input checked="" type="checkbox"/> Borehole / Drillhole                                                                                                                                         |                                                               |
| Construction Type:<br><input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug<br><input checked="" type="checkbox"/> Other (specify): Geoprobe |                                                               |

Formation Type:  
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)  
3'

Casing Diameter (in.)  
2"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

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

#### Required Method of Placing Sealing Material

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

#### Sealing Materials

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

#### For Monitoring Wells and Monitoring Well Boreholes Only:

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

### 5. Material Used to Fill Well / Drillhole

|                    | From (ft.) | To (ft.) | No. Yards, Sacks Sealant or<br>Volume (circle one) | Mix Ratio or<br>Mud Weight |
|--------------------|------------|----------|----------------------------------------------------|----------------------------|
| Granular bentonite | Surface    | 3'       | 1/8 Bag                                            |                            |

### 6. Comments

### 7. Supervision of Work

|                                                                                       |                                      |                                                                  |                                |                        |
|---------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------|--------------------------------|------------------------|
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering | License #                            | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16 | DNR Use Only                   |                        |
| Street or Route<br>4080 N. 20th Avenue                                                | Telephone Number<br>( 715 ) 675-9784 | Comments                                                         | Date Received                  | Noted By               |
| City<br>Wausau                                                                        | State<br>WI                          | ZIP Code<br>54401                                                | Signature of Person Doing Work | Date Signed<br>3-26-17 |



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

## Verification Only of Fill and Seal

### Route to DNR Bureau:

- ☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment  
☐ Waste Management ☐ Other: \_\_\_\_\_

## 1. Well Location Information

|                                                   |                                                                            |                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| County<br>Burnett                                 | WI Unique Well # of<br>Removed Well<br>GP6B                                | Hicap #                                                                                                              |
| Latitude / Longitude (see instructions)<br>N<br>W | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |
| 1/4 / 1/4 NW<br>or Gov't Lot #                    | Section<br>19                                                              | Township<br>38 N                                                                                                     |
| Well Street Address<br>10557 State Highway 70     | Range<br>17                                                                | <input type="checkbox"/> E<br><input checked="" type="checkbox"/> W                                                  |
| Well City, Village or Town<br>Town of Daniels     | Well ZIP Code<br>54840                                                     |                                                                                                                      |
| Subdivision Name                                  | Lot #                                                                      |                                                                                                                      |

## 2. Facility / Owner Information

|                                                            |             |                   |
|------------------------------------------------------------|-------------|-------------------|
| Facility Name<br>Hedlund DX                                |             |                   |
| Facility ID (FID or PWS)<br>807049540                      |             |                   |
| License/Permit/Monitoring #                                |             |                   |
| Original Well Owner<br>Burnett County                      |             |                   |
| Present Well Owner<br>Burnett County                       |             |                   |
| Mailing Address of Present Owner<br>10557 State Highway 70 |             |                   |
| City of Present Owner<br>Town of Daniels                   | State<br>WI | ZIP Code<br>54840 |

|                                                       |                                              |
|-------------------------------------------------------|----------------------------------------------|
| Reason for Removal from Service<br>Temporary Borehole | WI Unique Well # of Replacement Well<br>GP6B |
|-------------------------------------------------------|----------------------------------------------|

## 3. Filled & Sealed Well / Drillhole / Borehole Information

|                                                                                                                                             |                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole | Original Construction Date (mm/dd/yyyy)<br>8/8/16<br>If a Well Construction Report is available,<br>please attach. |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|

### Construction Type:

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

### Formation Type:

- ☒ Unconsolidated Formation ☐ Bedrock

|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| Total Well Depth From Ground Surface (ft.)<br>15' | Casing Diameter (in.)<br>2" |
| Lower Drillhole Diameter (in.)                    | Casing Depth (ft.)          |

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

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

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

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

### Required Method of Placing Sealing Material

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

### Sealing Materials

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

### For Monitoring Wells and Monitoring Well Boreholes Only:

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

## 5. Material Used to Fill Well / Drillhole

|                    | From (ft.) | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
|--------------------|------------|----------|-------------------------------------------------|-------------------------|
| Granular bentonite | Surface    | 15'      | 1/2 Bag                                         |                         |

## 6. Comments

## 7. Supervision of Work

|                                                                                       |                                      |                                                                  |                                |                        |
|---------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------------------|--------------------------------|------------------------|
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering | License #                            | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16 | DNR Use Only                   |                        |
| Street or Route<br>4080 N. 20th Avenue                                                | Telephone Number<br>( 715 ) 675-9784 | Comments                                                         | Date Received                  | Noted By               |
| City<br>Wausau                                                                        | State<br>WI                          | ZIP Code<br>54401                                                | Signature of Person Doing Work | Date Signed<br>3-28-17 |



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Page 1 of 2

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

☐ Verification Only of Fill and Seal

### Route to DNR Bureau:

☐ Drinking Water  
☐ Waste Management

☐ Watershed/Wastewater  
☐ Other: \_\_\_\_\_

☒ Remediation/Redevelopment

## 1. Well Location Information

|                                                   |                                                                            |                                                                                                                      |
|---------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| County<br>Burnett                                 | WI Unique Well # of<br>Removed Well<br>GP7                                 | Hicap #                                                                                                              |
| Latitude / Longitude (see instructions)<br>N<br>W | Format Code<br><input type="checkbox"/> DD<br><input type="checkbox"/> DDM | Method Code<br><input type="checkbox"/> GPS008<br><input type="checkbox"/> SCR002<br><input type="checkbox"/> OTH001 |
| 1/4 1/4 NW<br>or Gov't Lot #                      | Section<br>19                                                              | Township<br>38 N                                                                                                     |
| Well Street Address<br>10557 State Highway 70     | Range<br>17                                                                | Original Well Owner<br>Burnett County                                                                                |
| Well City, Village or Town<br>Town of Daniels     | Well ZIP Code<br>54840                                                     | Present Well Owner<br>Burnett County                                                                                 |
| Subdivision Name                                  | Lot #                                                                      | Mailing Address of Present Owner<br>10557 State Highway 70                                                           |

## 2. Facility / Owner Information

|                                                            |             |                   |
|------------------------------------------------------------|-------------|-------------------|
| Facility Name<br>Hedlund DX                                |             |                   |
| Facility ID (FID or PWS)<br>807049540                      |             |                   |
| License/Permit/Monitoring #                                |             |                   |
| Original Well Owner<br>Burnett County                      |             |                   |
| Present Well Owner<br>Burnett County                       |             |                   |
| Mailing Address of Present Owner<br>10557 State Highway 70 |             |                   |
| City of Present Owner<br>Town of Daniels                   | State<br>WI | ZIP Code<br>54840 |

Reason for Removal from Service  
Temporary Borehole

## 3. Filled & Sealed Well / Drillhole / Borehole Information

|                                                                                                                                             |                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Monitoring Well<br><input type="checkbox"/> Water Well<br><input checked="" type="checkbox"/> Borehole / Drillhole | WI Unique Well # of Replacement Well<br>GP7                   |
| Original Construction Date (mm/dd/yyyy)<br>8/8/16                                                                                           | If a Well Construction Report is available,<br>please attach. |

### Construction Type:

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

### Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)  
15'

Casing Diameter (in.)  
2"

Lower Drillhole Diameter (in.)

Casing Depth (ft.)

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

If yes, to what depth (feet)?

Depth to Water (feet)

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

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

### Required Method of Placing Sealing Material

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

### Sealing Materials

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

### For Monitoring Wells and Monitoring Well Boreholes Only:

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

## 5. Material Used to Fill Well / Drillhole

| From (ft.) | To (ft.) | No. Yards, Sacks Sealant or Volume (circle one) | Mix Ratio or Mud Weight |
|------------|----------|-------------------------------------------------|-------------------------|
| Surface    | 15'      | 1/2 Bag                                         |                         |

## 6. Comments

## 7. Supervision of Work

|                                                                                       |                |                                                                  |                   |               |
|---------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------|-------------------|---------------|
| Name of Person or Firm Doing Filling & Sealing<br>Gestra Engineering, REI Engineering | License #      | Date of Filling & Sealing or Verification<br>(mm/dd/yyyy) 8/8/16 | DNR Use Only      |               |
| Street or Route<br>4080 N. 20th Avenue                                                | City<br>Wausau | State<br>WI                                                      | ZIP Code<br>54401 | Date Received |
| Telephone Number<br>( 715 ) 675-9784                                                  |                |                                                                  | Noted By          |               |
| Signature of Person Doing Work                                                        |                |                                                                  | Comments          |               |
| Date Signed<br>3-28-17                                                                |                |                                                                  |                   |               |

## **APPENDIX G**

### **METHODS AND PROCEDURES**



# **METHODS AND PROCEDURES**

## **FOR**

### **GEOPROBE SOIL SAMPLING**

The Geoprobe unit hydraulically advances threaded, two-inch diameter, four-foot long, steel rod sections into the subsurface. A four-foot sampler, consisting of a drive shoe, a steel tube with a clean acetate liner, and a drive-head retractable piston, is attached to the leading Geoprobe rod. The sampler is driven down to the top of the interval to be sampled. The stop-pin is removed to release the drive head piston, which retracts as the sampler is advanced. When the sampler has been advanced four feet, the rods are retracted from the hole and the soil in the acetate liner is recovered. The acetate liner is split open and the soil is visually and manually classified by the field geologist/technician in accordance with **ASTM:D2488-84**. Logs of the borings are filled out indicating the depth and identification of the various strata, water level information, and pertinent information regarding the method of maintaining and advancing the borings.

Immediately after identification, the soil is quickly divided into two portions. One portion is prepared for potential laboratory analysis. The other portion is placed into a clean one-quart Ziploc bag for field screening. See the section "Soil Headspace Analysis" for field screening procedures.

#### **HEADSPACE ANALYSIS**

The soils were screened with a Mini-RAE photoionization detector (PID) equipped with an 10.6 eV lamp. The detector was calibrated in instrument units for Total Organic Vapors using an isobutylene standard. The soil sample, sealed in a Ziploc bag, was shaken vigorously to promote volatilization of the contaminant into the headspace of the bag. The sample was allowed to rest for at least ten minutes and then shaken again before screening. When ambient temperatures were below 60 degrees F, soil samples were allowed to warm for a minimum of 10 minutes in a heated environment prior to headspace development. The Ziploc bag was punctured with the PID probe and the resulting meter reading was recorded.



### **SAMPLING AND CHAIN OF CUSTODY**

Soil samples for laboratory analysis were collected into laboratory prepared vials. Each vial was labeled and placed directly into a cooler pending delivery to the laboratory. Latex gloves were worn during all sample collection procedures.

An entry on a Chain of Custody log was completed as each sample was collected. The Chain of Custody included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples. The Chain of Custody log was sent to the laboratory with each cooler of samples.

### **DECONTAMINATION**

Sampling equipment was decontaminated prior to sampling. Steel rod sections were washed after every sample collected.

# **METHODS AND PROCEDURES**

## **FOR**

### **SOIL SAMPLING USING HOLLOW STEM AUGERS**

Soil sampling was done in accordance with **ASTM:D1586-84**. Using this procedure, a 2 inch **OD**, 2 foot long split barrel sampler was driven into the soil by a 140 pound weight falling 30 inches. After an initial set of 6 inches, the number of blows required to drive the sampler an additional 12 inches is known as the penetration resistance or N value. The N value is an index of the relative density of cohesionless soils and the consistency of cohesive soils.

As the samples were obtained in the field, they were visually and manually classified by the field geologist/technician in accordance with **ASTM:D2488-84**. Representative portions of the samples were returned to the laboratory for further examination and for verification of the field classification. Logs of the borings were filled out indicating the depth and identification of the various strata, the N value, water level information and pertinent information regarding the method of maintaining and advancing the borings.

Soil samples recovered by the split spoon were divided into two portions. One portion was prepared for laboratory analysis. The other portion was placed into a clean one quart Ziploc bag. A headspace analysis was then conducted on this latter portion.

#### **HEADSPACE ANALYSIS**

The soils were scanned with a RAE photoionization detector equipped with a 10.6 eV lamp and calibrated for direct reading in units of Total Organic Vapors using an isobutylene standard. A Ziploc bag was filled two-thirds of the volume with the sample. The bags were sealed and shaken vigorously before headspace development. Headspace development is allowing the sample to rest for at least ten minutes before scanning. When ambient temperatures were below 60 degrees F, soil samples were allowed to warm for a minimum of 10 minutes in a heated

environment prior to headspace development. The Ziploc bag was punctured with the probe and a reading was taken.

#### **SAMPLING AND CHAIN OF CUSTODY**

Soil samples were collected from a spilt barrel sampler and placed in laboratory prepared glass vials and placed directly into a cooler pending delivery to the laboratory. Latex gloves were worn during all sample collection procedures.

Upon completion of a sample, a chain of custody log was initiated. The chain of custody record included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples.

#### **SURVEYING**

Grade elevations of borings were surveyed to the nearest 0.1 foot and were tied to a USGS benchmark.

#### **DECONTAMINATION**

Sampling equipment were decontaminated prior to sampling. Augers were steam cleaned on plastic and split spoons were cleaned after every sample taken.

# **METHODS AND PROCEDURES**

## **FOR**

### **MONITORING WELL INSTALLATION AND GROUNDWATER**

### **SAMPLING**

The water table monitoring wells consist of pipe joint threaded, two inch by ten feet long schedule 40 PVC (#10 slot) with 2 inch schedule 40 PVC riser. After the screen and riser pipe were set, a sand filter pack was placed around the screen to a depth 3 feet above the top of the screen, capped by a 2 foot fine sand layer, covered with a bentonite seal, annular space seal and surface seal. A protective casing did enclose the PVC riser pipe.

Monitoring wells were installed in accordance with Wisconsin Administrative Code NR 141 regulations. The WDNR "Monitoring Well Construction Form 4400-113A" were completed in accordance with NR 144 and NR 147.

The wells were developed by bailing or pumping to establish a reliable intercept with the surrounding formation. At least ten well volumes were removed or bailed until the wells were sediment free. If the well was bailed dry, a minimum of 3 volumes were taken. The WDNR "Monitoring Well Development Form 4400-113B" was completed for each well.

#### **WATER LEVEL**

Groundwater level measurements were obtained by using an electronic measuring device which indicated when a probe is in contact by lowering the probe into the well until the instrument indicated that the water surface has been encountered, and the distance from the top of the well to the probe was measured. All measurements were reported to the nearest 0.01 foot.



### **SAMPLING AND CHAIN OF CUSTODY**

Water samples were collected using disposable bottom loading plastic bailers. Prior to sampling, the wells were purged. At least 4 well volumes were removed before sampling to ensure collection of a representative sample. If the well was purged dry, it was allowed to recharge and then it was sampled.

Samples were taken from the middle section of the bailer and placed in laboratory prepared bottles. Samples were labeled and placed in a cooler to be preserved at approximately 4 degrees C. Samples were accompanied by Chain of Custody records.

Upon completion of a sample, a chain of custody log was initiated. The chain of custody record included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples.

### **SURVEYING**

Grade elevations of monitoring wells were surveyed to the nearest 0.1 foot and top of riser elevations were surveyed to the nearest 0.01 for monitoring wells. Elevations were tied to a USGS benchmark.

### **DECONTAMINATION**

Sampling equipment was decontaminated prior to sampling. The water level measuring device was washed before it was placed into each well using distilled water and Alconox cleaning detergent. Latex gloves were worn during all sample collection procedures and were changed between the collection of each of the water samples from each monitoring well.

## **APPENDIX H**

### **INVESTIGATIVE WASTE DISPOSAL**



---

**LINCOLN COUNTY LANDFILL 715-536-9636**  
Site: N4750 Landfill Lane, Merrill, WI 54452  
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452  
**OPERATING HOURS:**  
Monday-Friday  
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm  
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm  
1st and 3rd Sat. 8:00 am - Noon

DATE: 1/19/2017  
Time In: 10:14 AM

TICKET #: 224697      Vehicle #:  
Time Out: 10:23 AM

BILL TO: R.E.I.  
HAULER: R.E.I.

JOB : 17 - 3 B - RE #7367axuc Hedlund DX, Falun  
PO# : REI job #7367axuc

\$23.00 ton exempt (CON31)      1.12 tn  
Gross: 10320      Tare: 8080      Net Weight: 2240

Scale Notes:

Charge Transaction

**HAVE A NICE DAY!**

Customer Signature \_\_\_\_\_  
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.  
Reprinted Ticket    Ticket Edited

**LINCOLN COUNTY LANDFILL 715-536-9636**

Site: N4750 Landfill Lane, Merrill, WI 54452

Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452

**OPERATING HOURS:**

Monday-Friday

SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm

WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm

1st and 3rd Sat. 8:00 am - Noon

DATE: 9/19/2016  
Time In: 03:01 PM

TICKET #: 219686  
Time Out: 03:01 PM

Vehicle #:

BILL TO: R.E.I.  
HAULER: R.E.I.

JOB : 16 - 59 B - REI #7367 Hedlund DX, Falun  
PO# : REI job #7367

\$23.00 ton exempt (CON31) 2.95 tn  
Gross: 27600 Tare: 21700

Net Weight: 5900

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_  
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.



**LINCOLN COUNTY LANDFILL 715-536-9636**  
Site: N4750 Landfill Lane, Merrill, WI 54452  
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452  
**OPERATING HOURS:**  
Monday-Friday  
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm  
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm  
1st and 3rd Sat. 8:00 am - Noon

DATE: 8/25/2016  
Time In: 12:13 PM

TICKET #: 218461      Vehicle #:  
Time Out: 12:13 PM

BILL TO: R.E.I.  
HAULER: R.E.I.

JOB : 16 - 59 B - REI #7367 Hedlund DX, Falun  
PO# : REI job #7367

PEFCA DRUMS (PECFA)      1 un  
Gross: 1      Tare: 0      Net Weight: 1

Scale Notes:

Charge Transaction

HAVE A NICE DAY!

Customer Signature \_\_\_\_\_  
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

## **APPENDIX I**

### **SOIL AND GROUNDWATER ANALYTICAL REPORTS**



August 16, 2016

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

RE: Project: 7367 HEDLUND DX  
Pace Project No.: 40136674

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 40136674001 | MW1       | Water  | 08/08/16 06:00 | 08/12/16 08:50 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

---

| Lab ID      | Sample ID | Method     | Analysts | Analytes Reported |
|-------------|-----------|------------|----------|-------------------|
| 40136674001 | MW1       | WI MOD GRO | PMS      | 10                |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

**Sample: MW1**      **Lab ID: 40136674001**      Collected: 08/08/16 06:00      Received: 08/12/16 08:50      Matrix: Water

| Parameters                                     | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|------------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO |         |       |        |      |    |          |                |             |      |
| Benzene                                        | <0.40   | ug/L  | 1.0    | 0.40 | 1  |          | 08/15/16 18:44 | 71-43-2     |      |
| Ethylbenzene                                   | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 08/15/16 18:44 | 100-41-4    |      |
| Methyl-tert-butyl ether                        | <0.48   | ug/L  | 1.0    | 0.48 | 1  |          | 08/15/16 18:44 | 1634-04-4   |      |
| Naphthalene                                    | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 08/15/16 18:44 | 91-20-3     |      |
| Toluene                                        | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 08/15/16 18:44 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                         | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 08/15/16 18:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                         | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 08/15/16 18:44 | 108-67-8    |      |
| m&p-Xylene                                     | <0.80   | ug/L  | 2.0    | 0.80 | 1  |          | 08/15/16 18:44 | 179601-23-1 |      |
| o-Xylene                                       | <0.45   | ug/L  | 1.0    | 0.45 | 1  |          | 08/15/16 18:44 | 95-47-6     |      |
| <b>Surrogates</b>                              |         |       |        |      |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                     | 104     | %     | 80-120 |      | 1  |          | 08/15/16 18:44 | 98-08-8     |      |

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX  
Pace Project No.: 40136674

|                         |             |                       |                 |
|-------------------------|-------------|-----------------------|-----------------|
| QC Batch:               | 232262      | Analysis Method:      | WI MOD GRO      |
| QC Batch Method:        | WI MOD GRO  | Analysis Description: | WIGRO GCV Water |
| Associated Lab Samples: | 40136674001 |                       |                 |

METHOD BLANK: 1377678 Matrix: Water  
Associated Lab Samples: 40136674001

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 08/15/16 10:36 |            |
| 1,3,5-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 08/15/16 10:36 |            |
| Benzene                    | ug/L  | <0.40        | 1.0             | 08/15/16 10:36 |            |
| Ethylbenzene               | ug/L  | <0.39        | 1.0             | 08/15/16 10:36 |            |
| m&p-Xylene                 | ug/L  | <0.80        | 2.0             | 08/15/16 10:36 |            |
| Methyl-tert-butyl ether    | ug/L  | <0.48        | 1.0             | 08/15/16 10:36 |            |
| Naphthalene                | ug/L  | <0.42        | 1.0             | 08/15/16 10:36 |            |
| o-Xylene                   | ug/L  | <0.45        | 1.0             | 08/15/16 10:36 |            |
| Toluene                    | ug/L  | <0.39        | 1.0             | 08/15/16 10:36 |            |
| a,a,a-Trifluorotoluene (S) | %     | 105          | 80-120          | 08/15/16 10:36 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1377679

| LABORATORY CONTROL SAMPLE & LCSD: 1377679 |       |             | 1377680    |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 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          | 19.7       | 19.1        | 99        | 96         | 80-120       | 3   | 20      |            |
| 1,3,5-Trimethylbenzene                    | ug/L  | 20          | 19.1       | 18.7        | 95        | 93         | 80-120       | 2   | 20      |            |
| Benzene                                   | ug/L  | 20          | 20.3       | 20.3        | 101       | 101        | 80-120       | 0   | 20      |            |
| Ethylbenzene                              | ug/L  | 20          | 19.4       | 19.3        | 97        | 96         | 80-120       | 1   | 20      |            |
| m&p-Xylene                                | ug/L  | 40          | 38.5       | 38.4        | 96        | 96         | 80-120       | 0   | 20      |            |
| Methyl-tert-butyl ether                   | ug/L  | 20          | 20.4       | 19.9        | 102       | 99         | 80-120       | 3   | 20      |            |
| Naphthalene                               | ug/L  | 20          | 19.5       | 18.8        | 98        | 94         | 80-120       | 4   | 20      |            |
| o-Xylene                                  | ug/L  | 20          | 19.7       | 19.7        | 99        | 99         | 80-120       | 0   | 20      |            |
| Toluene                                   | ug/L  | 20          | 20.0       | 19.9        | 100       | 99         | 80-120       | 1   | 20      |            |
| a,a,a-Trifluorotoluene (S)                | %     |             |            |             | 103       | 104        | 80-120       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869

| Parameter               | Units | 1377870            |                |                 |           |            |          |           |              |     |         |
|-------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|
|                         |       | 40136648001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD |
| 1,2,4-Trimethylbenzene  | ug/L  | <0.42              | 20             | 20              | 18.9      | 18.5       | 94       | 93        | 48-177       | 2   | 20      |
| 1,3,5-Trimethylbenzene  | ug/L  | <0.42              | 20             | 20              | 17.4      | 17.2       | 87       | 86        | 73-145       | 1   | 20      |
| Benzene                 | ug/L  | <0.40              | 20             | 20              | 21.9      | 21.7       | 109      | 108       | 74-139       | 1   | 20      |
| Ethylbenzene            | ug/L  | <0.39              | 20             | 20              | 21.2      | 20.7       | 106      | 103       | 74-140       | 2   | 20      |
| m&p-Xylene              | ug/L  | <0.80              | 40             | 40              | 39.5      | 38.8       | 99       | 97        | 55-165       | 2   | 20      |
| Methyl-tert-butyl ether | ug/L  | <0.48              | 20             | 20              | 21.8      | 21.1       | 109      | 106       | 80-120       | 3   | 20      |
| Naphthalene             | ug/L  | 0.84J              | 20             | 20              | 20.9      | 20.2       | 100      | 97        | 73-133       | 3   | 20      |
| o-Xylene                | ug/L  | <0.45              | 20             | 20              | 20.1      | 19.7       | 101      | 98        | 73-136       | 2   | 20      |
| Toluene                 | ug/L  | <0.39              | 20             | 20              | 21.4      | 21.2       | 107      | 106       | 80-128       | 1   | 20      |

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

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## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869 1377870 |       |                       |                      |                       |              |               |             |              |                 |            |     |      |
|--------------------------------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| Parameter                                              | Units | 40136648001<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
| a,a,a-Trifluorotoluene (S)                             | %     |                       |                      |                       |              |               | 103         | 102          | 80-120          |            |     |      |

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

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## QUALIFIERS

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

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### 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.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 HEDLUND DX

Pace Project No.: 40136674

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40136674001 | MW1       | WI MOD GRO      | 232262   |                   |                  |

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**Pace Analytical®**  
www.pacelabs.com

# CHAIN OF CUSTODY

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

**FILTERED?  
(YES/NO)**

PRESERVATION  
(CODE)\*

|       |                     |
|-------|---------------------|
| PO #: | Regulatory Program: |
|       | WESA WDC            |

| <u>Data Package Options</u> | <u>MS/MSD</u> | <u>Max</u> |
|-----------------------------|---------------|------------|
|                             |               |            |

☐ EPA Level III (billable) ☐ On your sample (billable)

☐ EPA Level IV  
☐ NOT needed on  
O = Oil  
S = Soil

|                 |             |             |
|-----------------|-------------|-------------|
| PACELAB#        | your sample | SI = Sludge |
| CLIENT FIELD ID |             | COL         |

|                    |         |
|--------------------|---------|
| DATE               | 2/26/10 |
| SCIENTIST FIELD ID | 1001    |
| DATE               | 2/26/10 |
| SCIENTIST FIELD ID | 1001    |

|          |          |          |
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| 11/11/17 | 10/11/17 | 11/11/17 |
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1. The first part of the document is a title page. It contains the title of the document, the author's name, and the date of the document.

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|---|---|---|---|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| 0 | 0 | 1 | 4 | 9 | 16 | 25 | 36 | 49 | 64 | 81 | 100 | 121 | 144 | 169 | 196 | 225 | 256 | 289 | 324 | 361 | 400 | 441 | 484 | 529 | 576 | 625 | 676 | 729 | 784 | 841 | 900 | 961 | 1024 | 1089 | 1156 | 1225 | 1296 | 1369 | 1444 | 1521 | 1600 | 1681 | 1764 | 1849 | 1936 | 2025 | 2116 | 2209 | 2304 | 2401 | 2500 | 2601 | 2704 | 2809 | 2916 | 3025 | 3136 | 3249 | 3364 | 3481 | 3600 | 3721 | 3844 | 3969 | 4096 | 4225 | 4356 | 4489 | 4624 | 4761 | 4900 | 5041 | 5184 | 5329 | 5476 | 5625 | 5776 | 5929 | 6084 | 6241 | 6400 | 6561 | 6724 | 6889 | 7056 | 7225 | 7396 | 7569 | 7744 | 7921 | 8100 | 8281 | 8464 | 8649 | 8836 | 9025 | 9216 | 9409 | 9604 | 9801 | 10000 |

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|     | Rush Turnaround Time Requested - Prelims | Reliability |
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(Rush TAT subject to approval/surcharge)

**Date Needed.**

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

|                  |                    |
|------------------|--------------------|
| <b>Email #1:</b> |                    |
|                  | <b>Reliability</b> |

|                   |  |
|-------------------|--|
| <b>Email #2:</b>  |  |
| <b>Telephone:</b> |  |
| <b>Religion:</b>  |  |

|             |  |
|-------------|--|
| <b>Fax:</b> |  |
|-------------|--|

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

Special pricing and release of liability

C019a(27 Jun2006)

C019a(27Jun2006)

ANCC



## Sample Condition Upon Receipt

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

Pace Analytical™

Project #:

Client Name:

REI

WO#: 40136674

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: WalterTracking #: 1130291Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ noCustody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ noPacking Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used

N/A

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None☒ Samples on ice, cooling process has begunCooler Temperature Uncorr: ROT / Corr:Biological Tissue is Frozen: ☐ yesTemp Blank Present: ☐ yes ☒ no☐ no

Person examining contents:

Date: 8-12-16Initials: SHU

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

|                                                                                                                                                                                     |                                                                                                             |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------|
| Chain of Custody Present:                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 1.         |
| Chain of Custody Filled Out:                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 2.         |
| Chain of Custody Relinquished:                                                                                                                                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 3.         |
| 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 12.        |
| -Includes date/time/ID/Analysis Matrix:                                                                                                                                             | <u>W</u>                                                                                                    |            |
| All containers needing preservation have been checked.<br>(Non-Compliance noted in 13.)                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            | 13.        |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation.<br>(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤ 2; NaOH+ZnAct ≥ 9, NaOH ≥ 12) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            |            |
| exceptions: VOA, coliform, TOC, TOX, TOH,<br>O&G, WIDROW, Phenolics, OTHER:                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                         |            |
| Initial when completed                                                                                                                                                              | Lab Std #ID of preservative                                                                                 | Date/Time: |
| Headspace in VOA Vials (>6mm):                                                                                                                                                      | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 14.        |
| Trip Blank Present:                                                                                                                                                                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A            | 15.        |
| Trip Blank Custody Seals Present                                                                                                                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A            |            |
| Pace Trip Blank Lot # (if purchased):                                                                                                                                               |                                                                                                             |            |

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: \_\_\_\_\_

Date: 8-12-16

August 26, 2016

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

RE: Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Steven Mleczko for  
Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

| Lab ID      | Sample ID      | Matrix | Date Collected | Date Received  |
|-------------|----------------|--------|----------------|----------------|
| 40136672001 | GP1 @ 2-4      | Solid  | 08/08/16 03:30 | 08/12/16 08:50 |
| 40136672002 | GP1 @ 14-14.5  | Solid  | 08/08/16 04:00 | 08/12/16 08:50 |
| 40136672003 | GP2 @ 2-4      | Solid  | 08/08/16 04:45 | 08/12/16 08:50 |
| 40136672004 | GP2 @ 12-13    | Solid  | 08/08/16 05:05 | 08/12/16 08:50 |
| 40136672005 | GP3 @ 2-4      | Solid  | 08/08/16 05:20 | 08/12/16 08:50 |
| 40136672006 | GP3 @ 13-14    | Solid  | 08/08/16 05:30 | 08/12/16 08:50 |
| 40136672007 | GP4B @ 2-4     | Solid  | 08/08/16 05:55 | 08/12/16 08:50 |
| 40136672008 | GP5 @ 3-4      | Solid  | 08/08/16 06:15 | 08/12/16 08:50 |
| 40136672009 | GP5 @ 14-15    | Solid  | 08/08/16 06:30 | 08/12/16 08:50 |
| 40136672010 | GP6B @ 3-4     | Solid  | 08/08/16 07:00 | 08/12/16 08:50 |
| 40136672011 | GP6B @ 14-14.5 | Solid  | 08/08/16 07:20 | 08/12/16 08:50 |
| 40136672012 | GP7 @ 2-4      | Solid  | 08/08/16 07:40 | 08/12/16 08:50 |
| 40136672013 | GP7 @ 14-14.5  | Solid  | 08/08/16 07:50 | 08/12/16 08:50 |

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## SAMPLE ANALYTE COUNT

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

| Lab ID      | Sample ID      | Method        | Analysts | Analytes Reported |
|-------------|----------------|---------------|----------|-------------------|
| 40136672001 | GP1 @ 2-4      | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672002 | GP1 @ 14-14.5  | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672003 | GP2 @ 2-4      | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672004 | GP2 @ 12-13    | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672005 | GP3 @ 2-4      | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672006 | GP3 @ 13-14    | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672007 | GP4B @ 2-4     | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672008 | GP5 @ 3-4      | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672009 | GP5 @ 14-15    | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672010 | GP6B @ 3-4     | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672011 | GP6B @ 14-14.5 | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672012 | GP7 @ 2-4      | WI MOD GRO    | PMS      | 10                |
|             |                | EPA 6010      | DLB      | 1                 |
|             |                | ASTM D2974-87 | KTS      | 1                 |
| 40136672013 | GP7 @ 14-14.5  | WI MOD GRO    | PMS      | 10                |

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## SAMPLE ANALYTE COUNT

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

| Lab ID | Sample ID | Method        | Analysts | Analytes Reported |
|--------|-----------|---------------|----------|-------------------|
|        |           | EPA 6010      | DLB      | 1                 |
|        |           | ASTM D2974-87 | KTS      | 1                 |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP1 @ 2-4** **Lab ID: 40136672001** Collected: 08/08/16 03:30 Received: 08/12/16 08:50 Matrix: Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF   | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|------|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |      |                |                |             |      |
| Benzene                                                                                 | <340    | ug/kg | 679    | 340  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 71-43-2     | W    |
| Ethylbenzene                                                                            | 22700   | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                 | 829J    | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 1634-04-4   |      |
| Naphthalene                                                                             | 8210    | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 91-20-3     |      |
| Toluene                                                                                 | <340    | ug/kg | 679    | 340  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | 60400   | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                  | 25600   | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 108-67-8    |      |
| m&p-Xylene                                                                              | 64800   | ug/kg | 1870   | 937  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 179601-23-1 |      |
| o-Xylene                                                                                | 3270    | ug/kg | 937    | 469  | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 95-47-6     |      |
| <b>Surrogates</b>                                                                       |         |       |        |      |      |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 99      | %     | 80-120 |      | 12.5 | 08/15/16 05:30 | 08/15/16 16:41 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |      |                |                |             |      |
| Lead                                                                                    | 8.4     | mg/kg | 1.4    | 0.51 | 1    | 08/23/16 08:34 | 08/24/16 11:20 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |      |                |                |             |      |
| Percent Moisture                                                                        | 27.5    | %     | 0.10   | 0.10 | 1    |                | 08/24/16 15:07 |             |      |

**Sample: GP1 @ 14-14.5** **Lab ID: 40136672002** Collected: 08/08/16 04:00 Received: 08/12/16 08:50 Matrix: Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | 472     | ug/kg | 76.7   | 38.4 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 71-43-2     |      |
| Ethylbenzene                                                                            | 284     | ug/kg | 76.7   | 38.4 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                 | <26.3   | ug/kg | 52.6   | 26.3 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 1634-04-4   | W    |
| Naphthalene                                                                             | <26.3   | ug/kg | 52.6   | 26.3 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 91-20-3     | W    |
| Toluene                                                                                 | 38.9J   | ug/kg | 76.7   | 38.4 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                  | <26.3   | ug/kg | 52.6   | 26.3 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <26.3   | ug/kg | 52.6   | 26.3 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 108-67-8    | W    |
| m&p-Xylene                                                                              | 456     | ug/kg | 153    | 76.7 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 179601-23-1 |      |
| o-Xylene                                                                                | 103     | ug/kg | 76.7   | 38.4 | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 95-47-6     |      |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 101     | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 13:16 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 13.2    | mg/kg | 1.6    | 0.56 | 1  | 08/23/16 08:34 | 08/24/16 11:22 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 31.4    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP2 @ 2-4**      **Lab ID: 40136672003**      Collected: 08/08/16 04:45      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | 934     | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 71-43-2     |      |
| Ethylbenzene                                                                               | 10100   | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | 663     | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 1634-04-4   |      |
| Naphthalene                                                                                | 3090    | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 91-20-3     |      |
| Toluene                                                                                    | 15200   | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | 15800   | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | 5990    | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 108-67-8    |      |
| m&p-Xylene                                                                                 | 28400   | ug/kg | 594    | 297  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 179601-23-1 |      |
| o-Xylene                                                                                   | 10800   | ug/kg | 297    | 149  | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 93      | %     | 80-120 |      | 5  | 08/15/16 05:30 | 08/15/16 16:16 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 11.4    | mg/kg | 1.4    | 0.50 | 1  | 08/23/16 08:34 | 08/24/16 11:25 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 15.9    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

**Sample: GP2 @ 12-13**      **Lab ID: 40136672004**      Collected: 08/08/16 05:05      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | 1210    | ug/kg | 77.2   | 38.6 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 71-43-2     |      |
| Ethylbenzene                                                                               | 797     | ug/kg | 77.2   | 38.6 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 1634-04-4   | W    |
| Naphthalene                                                                                | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 91-20-3     | W    |
| Toluene                                                                                    | 244     | ug/kg | 77.2   | 38.6 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | 112     | ug/kg | 77.2   | 38.6 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | 1890    | ug/kg | 154    | 77.2 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 179601-23-1 |      |
| o-Xylene                                                                                   | 211     | ug/kg | 77.2   | 38.6 | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 102     | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 13:41 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 12.1    | mg/kg | 1.6    | 0.57 | 1  | 08/23/16 08:34 | 08/24/16 11:27 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 35.2    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP3 @ 2-4**      **Lab ID: 40136672005**      Collected: 08/08/16 05:20      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <1250   | ug/kg | 2500   | 1250 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 71-43-2     | W    |
| Ethylbenzene                                                                               | 113000  | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | 3290    | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 1634-04-4   |      |
| Naphthalene                                                                                | 44700   | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 91-20-3     |      |
| Toluene                                                                                    | 18300   | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | 235000  | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | 84500   | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 108-67-8    |      |
| m&p-Xylene                                                                                 | 426000  | ug/kg | 5950   | 2970 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 179601-23-1 |      |
| o-Xylene                                                                                   | 161000  | ug/kg | 2970   | 1490 | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 111     | %     | 80-120 |      | 50 | 08/15/16 05:30 | 08/15/16 17:58 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 63.4    | mg/kg | 1.3    | 0.47 | 1  | 08/23/16 08:34 | 08/24/16 11:30 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 15.9    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

**Sample: GP3 @ 13-14**      **Lab ID: 40136672006**      Collected: 08/08/16 05:30      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                    | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 1634-04-4   | W    |
| Naphthalene                                                                                | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 91-20-3     | W    |
| Toluene                                                                                    | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                     | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | <53.8   | ug/kg | 108    | 53.8 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 179601-23-1 | W    |
| o-Xylene                                                                                   | <26.9   | ug/kg | 53.8   | 26.9 | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 103     | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 14:07 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 12.9    | mg/kg | 1.5    | 0.53 | 1  | 08/23/16 08:34 | 08/24/16 11:32 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 31.0    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP4B @ 2-4**      **Lab ID: 40136672007**      Collected: 08/08/16 05:55      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                    | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 1634-04-4   | W    |
| Naphthalene                                                                                | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 91-20-3     | W    |
| Toluene                                                                                    | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | 36.6J   | ug/kg | 71.3   | 35.6 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | <55.6   | ug/kg | 111    | 55.6 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 179601-23-1 | W    |
| o-Xylene                                                                                   | <27.8   | ug/kg | 55.6   | 27.8 | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101     | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 15:24 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 982     | mg/kg | 1.3    | 0.46 | 1  | 08/23/16 08:34 | 08/24/16 11:40 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 22.0    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

**Sample: GP5 @ 3-4**      **Lab ID: 40136672008**      Collected: 08/08/16 06:15      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <160    | ug/kg | 321    | 160  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 71-43-2     | W    |
| Ethylbenzene                                                                               | 2380    | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | 657     | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 1634-04-4   |      |
| Naphthalene                                                                                | 2610    | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 91-20-3     |      |
| Toluene                                                                                    | <160    | ug/kg | 321    | 160  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | 23500   | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | 12000   | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 108-67-8    |      |
| m&p-Xylene                                                                                 | 8660    | ug/kg | 823    | 412  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 179601-23-1 |      |
| o-Xylene                                                                                   | 1900    | ug/kg | 412    | 206  | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 99      | %     | 80-120 |      | 5  | 08/15/16 05:30 | 08/15/16 17:07 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 18.7    | mg/kg | 1.4    | 0.50 | 1  | 08/23/16 08:26 | 08/23/16 19:45 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 22.1    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP5 @ 14-15**      **Lab ID: 40136672009**      Collected: 08/08/16 06:30      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | 417     | ug/kg | 105    | 52.5 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 71-43-2     |      |
| Ethylbenzene                                                                               | 73.5J   | ug/kg | 105    | 52.5 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <35.2   | ug/kg | 70.4   | 35.2 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 1634-04-4   | W    |
| Naphthalene                                                                                | <35.2   | ug/kg | 70.4   | 35.2 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 91-20-3     | W    |
| Toluene                                                                                    | <35.2   | ug/kg | 70.4   | 35.2 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | 247     | ug/kg | 105    | 52.5 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | 87.0J   | ug/kg | 105    | 52.5 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 108-67-8    |      |
| m&p-Xylene                                                                                 | 326     | ug/kg | 210    | 105  | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 179601-23-1 |      |
| o-Xylene                                                                                   | <35.2   | ug/kg | 70.4   | 35.2 | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101     | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 15:50 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 13.5    | mg/kg | 1.8    | 0.64 | 1  | 08/23/16 08:26 | 08/23/16 19:47 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 33.0    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

**Sample: GP6B @ 3-4**      **Lab ID: 40136672010**      Collected: 08/08/16 07:00      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <658    | ug/kg | 1320   | 658  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 71-43-2     | W    |
| Ethylbenzene                                                                               | 55900   | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | 2500    | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 1634-04-4   |      |
| Naphthalene                                                                                | 27200   | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 91-20-3     |      |
| Toluene                                                                                    | 5410    | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | 140000  | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | 52000   | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 108-67-8    |      |
| m&p-Xylene                                                                                 | 227000  | ug/kg | 3370   | 1690 | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 179601-23-1 |      |
| o-Xylene                                                                                   | 9160    | ug/kg | 1690   | 843  | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101     | %     | 80-120 |      | 25 | 08/15/16 05:30 | 08/15/16 17:33 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 6.2     | mg/kg | 1.4    | 0.50 | 1  | 08/23/16 08:26 | 08/23/16 19:50 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 22.0    | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX  
Pace Project No.: 40136672

**Sample: GP6B @ 14-14.5**      **Lab ID: 40136672011**      Collected: 08/08/16 07:20      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results         | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|-----------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |                 |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <b>306</b>      | ug/kg | 111    | 55.3 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 71-43-2     |      |
| Ethylbenzene                                                                               | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                    | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 1634-04-4   | W    |
| Naphthalene                                                                                | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 91-20-3     | W    |
| Toluene                                                                                    | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                     | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | <b>&lt;78.1</b> | ug/kg | 156    | 78.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 179601-23-1 | W    |
| o-Xylene                                                                                   | <b>&lt;39.1</b> | ug/kg | 78.1   | 39.1 | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |                 |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101             | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 19:41 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |                 |       |        |      |    |                |                |             |      |
| Lead                                                                                       | <b>12.3</b>     | mg/kg | 1.5    | 0.54 | 1  | 08/23/16 08:26 | 08/23/16 19:57 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |                 |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | <b>29.3</b>     | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:08 |             |      |

**Sample: GP7 @ 2-4**      **Lab ID: 40136672012**      Collected: 08/08/16 07:40      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results         | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|-----------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |                 |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <b>&lt;40.3</b> | ug/kg | 80.6   | 40.3 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <b>161</b>      | ug/kg | 100    | 50.2 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <b>&lt;40.3</b> | ug/kg | 80.6   | 40.3 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 1634-04-4   | W    |
| Naphthalene                                                                                | <b>63.2J</b>    | ug/kg | 100    | 50.2 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 91-20-3     |      |
| Toluene                                                                                    | <b>&lt;40.3</b> | ug/kg | 80.6   | 40.3 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <b>323</b>      | ug/kg | 100    | 50.2 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | <b>90.8J</b>    | ug/kg | 100    | 50.2 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 108-67-8    |      |
| m&p-Xylene                                                                                 | <b>464</b>      | ug/kg | 201    | 100  | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 179601-23-1 |      |
| o-Xylene                                                                                   | <b>&lt;40.3</b> | ug/kg | 80.6   | 40.3 | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |                 |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 102             | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 20:07 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |                 |       |        |      |    |                |                |             |      |
| Lead                                                                                       | <b>18.3</b>     | mg/kg | 2.9    | 1.0  | 2  | 08/23/16 08:26 | 08/24/16 12:28 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |                 |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | <b>19.7</b>     | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:09 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

**Sample: GP7 @ 14-14.5**      **Lab ID: 40136672013**      Collected: 08/08/16 07:50      Received: 08/12/16 08:50      Matrix: Solid

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

| Parameters                                                                                 | Results         | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|-----------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |                 |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <b>688</b>      | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 71-43-2     |      |
| Ethylbenzene                                                                               | <b>1160</b>     | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <b>&lt;25.3</b> | ug/kg | 50.5   | 25.3 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 1634-04-4   | W    |
| Naphthalene                                                                                | <b>86.6</b>     | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 91-20-3     |      |
| Toluene                                                                                    | <b>214</b>      | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | <b>602</b>      | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | <b>153</b>      | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 108-67-8    |      |
| m&p-Xylene                                                                                 | <b>3140</b>     | ug/kg | 147    | 73.4 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 179601-23-1 |      |
| o-Xylene                                                                                   | <b>675</b>      | ug/kg | 73.4   | 36.7 | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |                 |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101             | %     | 80-120 |      | 1  | 08/15/16 05:30 | 08/15/16 20:33 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |                 |       |        |      |    |                |                |             |      |
| Lead                                                                                       | <b>12.5</b>     | mg/kg | 1.6    | 0.59 | 1  | 08/23/16 08:26 | 08/23/16 20:02 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |                 |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | <b>31.2</b>     | %     | 0.10   | 0.10 | 1  |                | 08/24/16 15:09 |             |      |

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## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

|                         |                                                                                                                                                                         |                       |                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|
| QC Batch:               | 232240                                                                                                                                                                  | Analysis Method:      | WI MOD GRO      |
| QC Batch Method:        | TPH GRO/PVOC WI ext.                                                                                                                                                    | Analysis Description: | WIGRO Solid GCV |
| Associated Lab Samples: | 40136672001, 40136672002, 40136672003, 40136672004, 40136672005, 40136672006, 40136672007, 40136672008, 40136672009, 40136672010, 40136672011, 40136672012, 40136672013 |                       |                 |

METHOD BLANK: 1377614

Matrix: Solid

Associated Lab Samples: 40136672001, 40136672002, 40136672003, 40136672004, 40136672005, 40136672006, 40136672007, 40136672008, 40136672009, 40136672010, 40136672011, 40136672012, 40136672013

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| 1,3,5-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| Benzene                    | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| Ethylbenzene               | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| m&p-Xylene                 | ug/kg | <50.0        | 100             | 08/15/16 08:21 |            |
| Methyl-tert-butyl ether    | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| Naphthalene                | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| o-Xylene                   | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| Toluene                    | ug/kg | <25.0        | 50.0            | 08/15/16 08:21 |            |
| a,a,a-Trifluorotoluene (S) | %     | 102          | 80-120          | 08/15/16 08:21 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1377615

1377616

| Parameter                  | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | 1000        | 1190       | 1090        | 119       | 109        | 80-120       | 9   | 20      |            |
| 1,3,5-Trimethylbenzene     | ug/kg | 1000        | 1170       | 1060        | 117       | 106        | 80-120       | 10  | 20      |            |
| Benzene                    | ug/kg | 1000        | 1150       | 1070        | 115       | 107        | 80-120       | 7   | 20      |            |
| Ethylbenzene               | ug/kg | 1000        | 1150       | 1040        | 115       | 104        | 80-120       | 10  | 20      |            |
| m&p-Xylene                 | ug/kg | 2000        | 2320       | 2090        | 116       | 105        | 80-120       | 10  | 20      |            |
| Methyl-tert-butyl ether    | ug/kg | 1000        | 1190       | 1070        | 119       | 107        | 80-120       | 10  | 20      |            |
| Naphthalene                | ug/kg | 1000        | 1100       | 996         | 110       | 100        | 80-120       | 10  | 20      |            |
| o-Xylene                   | ug/kg | 1000        | 1170       | 1060        | 117       | 106        | 80-120       | 11  | 20      |            |
| Toluene                    | ug/kg | 1000        | 1140       | 1040        | 114       | 104        | 80-120       | 9   | 20      |            |
| a,a,a-Trifluorotoluene (S) | %     |             |            |             | 102       | 102        | 80-120       |     |         |            |

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

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## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

|                                                                                                                   |          |                       |          |
|-------------------------------------------------------------------------------------------------------------------|----------|-----------------------|----------|
| QC Batch:                                                                                                         | 232853   | Analysis Method:      | EPA 6010 |
| QC Batch Method:                                                                                                  | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: 40136672001, 40136672002, 40136672003, 40136672004, 40136672005, 40136672006, 40136672007 |          |                       |          |

|                                                                                                                   |         |         |       |
|-------------------------------------------------------------------------------------------------------------------|---------|---------|-------|
| METHOD BLANK:                                                                                                     | 1380288 | Matrix: | Solid |
| Associated Lab Samples: 40136672001, 40136672002, 40136672003, 40136672004, 40136672005, 40136672006, 40136672007 |         |         |       |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | mg/kg | <0.43        | 1.2             | 08/24/16 10:31 |            |

| LABORATORY CONTROL SAMPLE: 1380289 |       |             |            |           |              |            |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter                          | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Lead                               | mg/kg | 50          | 47.7       | 95        | 80-120       |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1380290 1380291 |       |                    |                |                 |           |            |          |           |              |     |         |      |
|--------------------------------------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter                                              | Units | 40136667028 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Lead                                                   | mg/kg | 2.9                | 57.8           | 57.7            | 56.7      | 57.3       | 93       | 94        | 75-125       | 1   | 20      |      |

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

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

|                                                                                                      |          |                       |          |
|------------------------------------------------------------------------------------------------------|----------|-----------------------|----------|
| QC Batch:                                                                                            | 233018   | Analysis Method:      | EPA 6010 |
| QC Batch Method:                                                                                     | EPA 3050 | Analysis Description: | 6010 MET |
| Associated Lab Samples: 40136672008, 40136672009, 40136672010, 40136672011, 40136672012, 40136672013 |          |                       |          |

|                                                                                                      |         |         |       |
|------------------------------------------------------------------------------------------------------|---------|---------|-------|
| METHOD BLANK:                                                                                        | 1381125 | Matrix: | Solid |
| Associated Lab Samples: 40136672008, 40136672009, 40136672010, 40136672011, 40136672012, 40136672013 |         |         |       |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | mg/kg | <0.43        | 1.2             | 08/23/16 19:11 |            |

| LABORATORY CONTROL SAMPLE: 1381126 |       |             |            |           |              |            |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|
| Parameter                          | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
| Lead                               | mg/kg | 50          | 42.8       | 86        | 80-120       |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1381127 |       |             |             |             | 1381128 |     |    |     |        |     |      |        |
|------------------------------------------------|-------|-------------|-------------|-------------|---------|-----|----|-----|--------|-----|------|--------|
| Parameter                                      | Units | 40136697001 | MS          | MSD         | MS      | MSD | MS | MSD | % Rec  | Max | Qual |        |
|                                                |       | Result      | Spike Conc. | Spike Conc. |         |     |    |     |        |     |      | Result |
| Lead                                           | mg/kg | 36.2        | 166         | 166         | 184     | 184 | 89 | 89  | 75-125 | 0   | 20   |        |

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## QUALITY CONTROL DATA

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

|                         |                                                                                                                                                                         |                       |                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|
| QC Batch:               | 233226                                                                                                                                                                  | Analysis Method:      | ASTM D2974-87               |
| QC Batch Method:        | ASTM D2974-87                                                                                                                                                           | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 40136672001, 40136672002, 40136672003, 40136672004, 40136672005, 40136672006, 40136672007, 40136672008, 40136672009, 40136672010, 40136672011, 40136672012, 40136672013 |                       |                             |

SAMPLE DUPLICATE: 1382082

| Parameter        | Units | 40136667030<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 29.0                  | 29.9          | 3   | 10         |            |

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## QUALIFIERS

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

---

### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 HEDLUND DX

Pace Project No.: 40136672

| Lab ID      | Sample ID      | QC Batch Method      | QC Batch | Analytical Method | Analytical Batch |
|-------------|----------------|----------------------|----------|-------------------|------------------|
| 40136672001 | GP1 @ 2-4      | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672002 | GP1 @ 14-14.5  | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672003 | GP2 @ 2-4      | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672004 | GP2 @ 12-13    | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672005 | GP3 @ 2-4      | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672006 | GP3 @ 13-14    | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672007 | GP4B @ 2-4     | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672008 | GP5 @ 3-4      | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672009 | GP5 @ 14-15    | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672010 | GP6B @ 3-4     | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672011 | GP6B @ 14-14.5 | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672012 | GP7 @ 2-4      | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672013 | GP7 @ 14-14.5  | TPH GRO/PVOC WI ext. | 232240   | WI MOD GRO        | 232271           |
| 40136672001 | GP1 @ 2-4      | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672002 | GP1 @ 14-14.5  | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672003 | GP2 @ 2-4      | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672004 | GP2 @ 12-13    | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672005 | GP3 @ 2-4      | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672006 | GP3 @ 13-14    | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672007 | GP4B @ 2-4     | EPA 3050             | 232853   | EPA 6010          | 233116           |
| 40136672008 | GP5 @ 3-4      | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672009 | GP5 @ 14-15    | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672010 | GP6B @ 3-4     | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672011 | GP6B @ 14-14.5 | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672012 | GP7 @ 2-4      | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672013 | GP7 @ 14-14.5  | EPA 3050             | 233018   | EPA 6010          | 233117           |
| 40136672001 | GP1 @ 2-4      | ASTM D2974-87        | 233226   |                   |                  |
| 40136672002 | GP1 @ 14-14.5  | ASTM D2974-87        | 233226   |                   |                  |
| 40136672003 | GP2 @ 2-4      | ASTM D2974-87        | 233226   |                   |                  |
| 40136672004 | GP2 @ 12-13    | ASTM D2974-87        | 233226   |                   |                  |
| 40136672005 | GP3 @ 2-4      | ASTM D2974-87        | 233226   |                   |                  |
| 40136672006 | GP3 @ 13-14    | ASTM D2974-87        | 233226   |                   |                  |
| 40136672007 | GP4B @ 2-4     | ASTM D2974-87        | 233226   |                   |                  |
| 40136672008 | GP5 @ 3-4      | ASTM D2974-87        | 233226   |                   |                  |
| 40136672009 | GP5 @ 14-15    | ASTM D2974-87        | 233226   |                   |                  |
| 40136672010 | GP6B @ 3-4     | ASTM D2974-87        | 233226   |                   |                  |
| 40136672011 | GP6B @ 14-14.5 | ASTM D2974-87        | 233226   |                   |                  |
| 40136672012 | GP7 @ 2-4      | ASTM D2974-87        | 233226   |                   |                  |
| 40136672013 | GP7 @ 14-14.5  | ASTM D2974-87        | 233226   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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# Sample Condition Upon Receipt

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

**Pace Analytical™**

Client Name:

REI

Project #:

**WO#: 40136672**

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

Tracking #: 1130291



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

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

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

Thermometer Used

N/A

Type of Ice: ☒ Wet ☐ Blue Dry None

☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT / Corr:

Biological Tissue is Frozen: ☐ yes

Temp Blank Present: ☐ yes ☒ no

☐ no

Person examining contents:

Date: 8-12-16

Initials: Sut

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

|                                                                                                                                      |                                                                                                  |                                                                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Chain of Custody Present:                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                                                                                                                                   |
| Chain of Custody Filled Out:                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2. <u>No Matrix</u>                                                                                                                  |
| Chain of Custody Relinquished:                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                                                                                                   |
| 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 checked="" type="checkbox"/> Yes <input 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. <u>067 ID "GP 4Q2-4"</u>                                                                                                         |
| Sample Labels match COC:                                                                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>008 140mlv no date</u><br><u>0108011 no "b" in sample IDS</u>                                                                 |
| - Includes date/time/ID/Analysis Matrix:                                                                                             | <u>S</u>                                                                                         |                                                                                                                                      |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.)                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                                      |
| exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed                                                                                                               |
|                                                                                                                                      |                                                                                                  | Lab Std #/ID of preservative                                                                                                         |
|                                                                                                                                      |                                                                                                  | Date/Time:                                                                                                                           |
| Headspace in VOA Vials (>6mm):                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                                                                                                                                  |
| Trip Blank Present:                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                                                                                                                                  |
| Trip Blank Custody Seals Present                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                                      |
| Pace Trip Blank Lot # (if purchased):                                                                                                |                                                                                                  |                                                                                                                                      |

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review:

[Signature]

Date: 8-12-16

September 23, 2016

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

RE: Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 40138479001 | MW1       | Water  | 09/13/16 11:30 | 09/17/16 08:00 |
| 40138479002 | MW2       | Water  | 09/13/16 12:51 | 09/17/16 08:00 |
| 40138479003 | MW3       | Water  | 09/13/16 14:00 | 09/17/16 08:00 |
| 40138479004 | MW4       | Water  | 09/13/16 15:50 | 09/17/16 08:00 |
| 40138479005 | MW5       | Water  | 09/13/16 17:17 | 09/17/16 08:00 |
| 40138479006 | MW6       | Water  | 09/13/16 19:00 | 09/17/16 08:00 |

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## SAMPLE ANALYTE COUNT

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| Lab ID      | Sample ID | Method     | Analysts | Analytes Reported |
|-------------|-----------|------------|----------|-------------------|
| 40138479001 | MW1       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |
| 40138479002 | MW2       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |
| 40138479003 | MW3       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |
| 40138479004 | MW4       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |
| 40138479005 | MW5       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |
| 40138479006 | MW6       | WI MOD GRO | ALD      | 10                |
|             |           | EPA 6010   | DLB      | 1                 |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

| <b>Sample: MW1</b>             |         | <b>Lab ID: 40138479001</b>    |        | Collected: 09/13/16 11:30 | Received: 09/17/16 08:00 | Matrix: Water |                |             |      |
|--------------------------------|---------|-------------------------------|--------|---------------------------|--------------------------|---------------|----------------|-------------|------|
| Parameters                     | Results | Units                         | LOQ    | LOD                       | DF                       | Prepared      | Analyzed       | CAS No.     | Qual |
| <b>WIGRO GCV</b>               |         | Analytical Method: WI MOD GRO |        |                           |                          |               |                |             |      |
| Benzene                        | <0.40   | ug/L                          | 1.0    | 0.40                      | 1                        |               | 09/19/16 14:27 | 71-43-2     |      |
| Ethylbenzene                   | <0.39   | ug/L                          | 1.0    | 0.39                      | 1                        |               | 09/19/16 14:27 | 100-41-4    |      |
| Methyl-tert-butyl ether        | <0.48   | ug/L                          | 1.0    | 0.48                      | 1                        |               | 09/19/16 14:27 | 1634-04-4   |      |
| Naphthalene                    | <0.42   | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/19/16 14:27 | 91-20-3     |      |
| Toluene                        | <0.39   | ug/L                          | 1.0    | 0.39                      | 1                        |               | 09/19/16 14:27 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene         | <0.42   | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/19/16 14:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | <0.42   | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/19/16 14:27 | 108-67-8    |      |
| m&p-Xylene                     | <0.80   | ug/L                          | 2.0    | 0.80                      | 1                        |               | 09/19/16 14:27 | 179601-23-1 |      |
| o-Xylene                       | <0.45   | ug/L                          | 1.0    | 0.45                      | 1                        |               | 09/19/16 14:27 | 95-47-6     |      |
| <b>Surrogates</b>              |         |                               |        |                           |                          |               |                |             |      |
| a,a,a-Trifluorotoluene (S)     | 104     | %                             | 80-120 |                           | 1                        |               | 09/19/16 14:27 | 98-08-8     |      |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010   |        |                           |                          |               |                |             |      |
| Lead, Dissolved                | <3.0    | ug/L                          | 12.0   | 3.0                       | 1                        |               | 09/20/16 17:39 | 7439-92-1   | 1q   |

| <b>Sample: MW2</b>             |         | <b>Lab ID: 40138479002</b>    |        | Collected: 09/13/16 12:51 | Received: 09/17/16 08:00 | Matrix: Water |                |             |      |
|--------------------------------|---------|-------------------------------|--------|---------------------------|--------------------------|---------------|----------------|-------------|------|
| Parameters                     | Results | Units                         | LOQ    | LOD                       | DF                       | Prepared      | Analyzed       | CAS No.     | Qual |
| <b>WIGRO GCV</b>               |         | Analytical Method: WI MOD GRO |        |                           |                          |               |                |             |      |
| Benzene                        | 32.7    | ug/L                          | 1.0    | 0.40                      | 1                        |               | 09/21/16 02:11 | 71-43-2     |      |
| Ethylbenzene                   | 19.0    | ug/L                          | 1.0    | 0.39                      | 1                        |               | 09/21/16 02:11 | 100-41-4    |      |
| Methyl-tert-butyl ether        | 0.95J   | ug/L                          | 1.0    | 0.48                      | 1                        |               | 09/21/16 02:11 | 1634-04-4   |      |
| Naphthalene                    | 3.5     | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/21/16 02:11 | 91-20-3     |      |
| Toluene                        | 9.1     | ug/L                          | 1.0    | 0.39                      | 1                        |               | 09/21/16 02:11 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene         | 8.8     | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/21/16 02:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | 1.3     | ug/L                          | 1.0    | 0.42                      | 1                        |               | 09/21/16 02:11 | 108-67-8    |      |
| m&p-Xylene                     | 48.7    | ug/L                          | 2.0    | 0.80                      | 1                        |               | 09/21/16 02:11 | 179601-23-1 |      |
| o-Xylene                       | 3.4     | ug/L                          | 1.0    | 0.45                      | 1                        |               | 09/21/16 02:11 | 95-47-6     |      |
| <b>Surrogates</b>              |         |                               |        |                           |                          |               |                |             |      |
| a,a,a-Trifluorotoluene (S)     | 103     | %                             | 80-120 |                           | 1                        |               | 09/21/16 02:11 | 98-08-8     |      |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010   |        |                           |                          |               |                |             |      |
| Lead, Dissolved                | <3.0    | ug/L                          | 12.0   | 3.0                       | 1                        |               | 09/20/16 17:42 | 7439-92-1   | 1q   |

| <b>Sample: MW3</b> |         | <b>Lab ID: 40138479003</b>    |     | Collected: 09/13/16 14:00 | Received: 09/17/16 08:00 | Matrix: Water |                |          |      |
|--------------------|---------|-------------------------------|-----|---------------------------|--------------------------|---------------|----------------|----------|------|
| Parameters         | Results | Units                         | LOQ | LOD                       | DF                       | Prepared      | Analyzed       | CAS No.  | Qual |
| <b>WIGRO GCV</b>   |         | Analytical Method: WI MOD GRO |     |                           |                          |               |                |          |      |
| Benzene            | 165     | ug/L                          | 2.5 | 0.99                      | 2.5                      |               | 09/19/16 20:37 | 71-43-2  |      |
| Ethylbenzene       | 146     | ug/L                          | 2.5 | 0.98                      | 2.5                      |               | 09/19/16 20:37 | 100-41-4 |      |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| Sample: MW3 Lab ID: 40138479003 Collected: 09/13/16 14:00 Received: 09/17/16 08:00 Matrix: Water |         |       |        |      |     |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|------|-----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD  | DF  | Prepared | Analyzed       | CAS No.     | Qual |
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO                                                   |         |       |        |      |     |          |                |             |      |
| Methyl-tert-butyl ether                                                                          | <1.2    | ug/L  | 2.5    | 1.2  | 2.5 |          | 09/19/16 20:37 | 1634-04-4   |      |
| Naphthalene                                                                                      | 44.9    | ug/L  | 2.5    | 1.1  | 2.5 |          | 09/19/16 20:37 | 91-20-3     |      |
| Toluene                                                                                          | 36.1    | ug/L  | 2.5    | 0.97 | 2.5 |          | 09/19/16 20:37 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | 143     | ug/L  | 2.5    | 1.0  | 2.5 |          | 09/19/16 20:37 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | 40.1    | ug/L  | 2.5    | 1.0  | 2.5 |          | 09/19/16 20:37 | 108-67-8    |      |
| m&p-Xylene                                                                                       | 499     | ug/L  | 5.0    | 2.0  | 2.5 |          | 09/19/16 20:37 | 179601-23-1 |      |
| o-Xylene                                                                                         | 221     | ug/L  | 2.5    | 1.1  | 2.5 |          | 09/19/16 20:37 | 95-47-6     |      |
| <b>Surrogates</b>                                                                                |         |       |        |      |     |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                       | 106     | %     | 80-120 |      | 2.5 |          | 09/19/16 20:37 | 98-08-8     |      |
| <b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010                                       |         |       |        |      |     |          |                |             |      |
| Lead, Dissolved                                                                                  | <3.0    | ug/L  | 12.0   | 3.0  | 1   |          | 09/20/16 17:44 | 7439-92-1   | 1q   |

| Sample: MW4 Lab ID: 40138479004 Collected: 09/13/16 15:50 Received: 09/17/16 08:00 Matrix: Water |         |       |        |     |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|-----|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.     | Qual |
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO                                                   |         |       |        |     |    |          |                |             |      |
| Benzene                                                                                          | 1130    | ug/L  | 5.0    | 2.0 | 5  |          | 09/19/16 17:11 | 71-43-2     | M1   |
| Ethylbenzene                                                                                     | 395     | ug/L  | 5.0    | 2.0 | 5  |          | 09/19/16 17:11 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                          | <2.4    | ug/L  | 5.0    | 2.4 | 5  |          | 09/19/16 17:11 | 1634-04-4   |      |
| Naphthalene                                                                                      | 74.7    | ug/L  | 5.0    | 2.1 | 5  |          | 09/19/16 17:11 | 91-20-3     |      |
| Toluene                                                                                          | 301     | ug/L  | 5.0    | 1.9 | 5  |          | 09/19/16 17:11 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | 263     | ug/L  | 5.0    | 2.1 | 5  |          | 09/19/16 17:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | 59.7    | ug/L  | 5.0    | 2.1 | 5  |          | 09/19/16 17:11 | 108-67-8    |      |
| m&p-Xylene                                                                                       | 1180    | ug/L  | 10.0   | 4.0 | 5  |          | 09/19/16 17:11 | 179601-23-1 |      |
| o-Xylene                                                                                         | 324     | ug/L  | 5.0    | 2.2 | 5  |          | 09/19/16 17:11 | 95-47-6     |      |
| <b>Surrogates</b>                                                                                |         |       |        |     |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                       | 105     | %     | 80-120 |     | 5  |          | 09/19/16 17:11 | 98-08-8     |      |
| <b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010                                       |         |       |        |     |    |          |                |             |      |
| Lead, Dissolved                                                                                  | <3.0    | ug/L  | 12.0   | 3.0 | 1  |          | 09/22/16 13:12 | 7439-92-1   |      |

| Sample: MW5 Lab ID: 40138479005 Collected: 09/13/16 17:17 Received: 09/17/16 08:00 Matrix: Water |         |       |     |      |    |          |                |           |      |
|--------------------------------------------------------------------------------------------------|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Parameters                                                                                       | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.   | Qual |
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO                                                   |         |       |     |      |    |          |                |           |      |
| Benzene                                                                                          | 119     | ug/L  | 1.0 | 0.40 | 1  |          | 09/19/16 15:02 | 71-43-2   |      |
| Ethylbenzene                                                                                     | 109     | ug/L  | 1.0 | 0.39 | 1  |          | 09/19/16 15:02 | 100-41-4  |      |
| Methyl-tert-butyl ether                                                                          | 2.0     | ug/L  | 1.0 | 0.48 | 1  |          | 09/19/16 15:02 | 1634-04-4 |      |
| Naphthalene                                                                                      | 17.2    | ug/L  | 1.0 | 0.42 | 1  |          | 09/19/16 15:02 | 91-20-3   |      |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| Sample: MW5                    |         | Lab ID: 40138479005           |        | Collected: 09/13/16 17:17 |    | Received: 09/17/16 08:00 |                | Matrix: Water |      |
|--------------------------------|---------|-------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                     | Results | Units                         | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>WIGRO GCV</b>               |         | Analytical Method: WI MOD GRO |        |                           |    |                          |                |               |      |
| Toluene                        | 24.0    | ug/L                          | 1.0    | 0.39                      | 1  |                          | 09/19/16 15:02 | 108-88-3      |      |
| 1,2,4-Trimethylbenzene         | 63.7    | ug/L                          | 1.0    | 0.42                      | 1  |                          | 09/19/16 15:02 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene         | 15.6    | ug/L                          | 1.0    | 0.42                      | 1  |                          | 09/19/16 15:02 | 108-67-8      |      |
| m&p-Xylene                     | 279     | ug/L                          | 2.0    | 0.80                      | 1  |                          | 09/19/16 15:02 | 179601-23-1   |      |
| o-Xylene                       | 6.0     | ug/L                          | 1.0    | 0.45                      | 1  |                          | 09/19/16 15:02 | 95-47-6       |      |
| <b>Surrogates</b>              |         |                               |        |                           |    |                          |                |               |      |
| a,a,a-Trifluorotoluene (S)     | 106     | %                             | 80-120 |                           | 1  |                          | 09/19/16 15:02 | 98-08-8       |      |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010   |        |                           |    |                          |                |               |      |
| Lead, Dissolved                | <3.0    | ug/L                          | 12.0   | 3.0                       | 1  |                          | 09/22/16 13:14 | 7439-92-1     |      |

| Sample: MW6                    |         | Lab ID: 40138479006           |        | Collected: 09/13/16 19:00 |    | Received: 09/17/16 08:00 |                | Matrix: Water |      |
|--------------------------------|---------|-------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                     | Results | Units                         | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>WIGRO GCV</b>               |         | Analytical Method: WI MOD GRO |        |                           |    |                          |                |               |      |
| Benzene                        | 3.5     | ug/L                          | 1.0    | 0.40                      | 1  |                          | 09/21/16 01:19 | 71-43-2       |      |
| Ethylbenzene                   | 2.8     | ug/L                          | 1.0    | 0.39                      | 1  |                          | 09/21/16 01:19 | 100-41-4      |      |
| Methyl-tert-butyl ether        | <0.48   | ug/L                          | 1.0    | 0.48                      | 1  |                          | 09/21/16 01:19 | 1634-04-4     |      |
| Naphthalene                    | 0.46J   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 09/21/16 01:19 | 91-20-3       |      |
| Toluene                        | 0.88J   | ug/L                          | 1.0    | 0.39                      | 1  |                          | 09/21/16 01:19 | 108-88-3      |      |
| 1,2,4-Trimethylbenzene         | 1.3     | ug/L                          | 1.0    | 0.42                      | 1  |                          | 09/21/16 01:19 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene         | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 09/21/16 01:19 | 108-67-8      |      |
| m&p-Xylene                     | 6.4     | ug/L                          | 2.0    | 0.80                      | 1  |                          | 09/21/16 01:19 | 179601-23-1   |      |
| o-Xylene                       | 0.69J   | ug/L                          | 1.0    | 0.45                      | 1  |                          | 09/21/16 01:19 | 95-47-6       |      |
| <b>Surrogates</b>              |         |                               |        |                           |    |                          |                |               |      |
| a,a,a-Trifluorotoluene (S)     | 101     | %                             | 80-120 |                           | 1  |                          | 09/21/16 01:19 | 98-08-8       |      |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010   |        |                           |    |                          |                |               |      |
| Lead, Dissolved                | <3.0    | ug/L                          | 12.0   | 3.0                       | 1  |                          | 09/22/16 13:17 | 7439-92-1     |      |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

QC Batch: 235226 Analysis Method: WI MOD GRO  
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water  
Associated Lab Samples: 40138479001, 40138479002, 40138479003, 40138479004, 40138479005, 40138479006

METHOD BLANK: 1394510 Matrix: Water  
Associated Lab Samples: 40138479001, 40138479002, 40138479003, 40138479004, 40138479005, 40138479006

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 09/19/16 09:44 |            |
| 1,3,5-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 09/19/16 09:44 |            |
| Benzene                    | ug/L  | <0.40        | 1.0             | 09/19/16 09:44 |            |
| Ethylbenzene               | ug/L  | <0.39        | 1.0             | 09/19/16 09:44 |            |
| m&p-Xylene                 | ug/L  | <0.80        | 2.0             | 09/19/16 09:44 |            |
| Methyl-tert-butyl ether    | ug/L  | <0.48        | 1.0             | 09/19/16 09:44 |            |
| Naphthalene                | ug/L  | <0.42        | 1.0             | 09/19/16 09:44 |            |
| o-Xylene                   | ug/L  | <0.45        | 1.0             | 09/19/16 09:44 |            |
| Toluene                    | ug/L  | <0.39        | 1.0             | 09/19/16 09:44 |            |
| a,a,a-Trifluorotoluene (S) | %     | 104          | 80-120          | 09/19/16 09:44 |            |

| LABORATORY CONTROL SAMPLE & LCSD: 1394511 |       |             | 1394512    |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 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          | 20.8       | 20.5        | 104       | 102        | 80-120       | 2   | 20      |            |
| 1,3,5-Trimethylbenzene                    | ug/L  | 20          | 20.4       | 20.1        | 102       | 100        | 80-120       | 2   | 20      |            |
| Benzene                                   | ug/L  | 20          | 21.0       | 20.5        | 105       | 103        | 80-120       | 2   | 20      |            |
| Ethylbenzene                              | ug/L  | 20          | 20.4       | 20.0        | 102       | 100        | 80-120       | 2   | 20      |            |
| m&p-Xylene                                | ug/L  | 40          | 40.6       | 39.6        | 102       | 99         | 80-120       | 3   | 20      |            |
| Methyl-tert-butyl ether                   | ug/L  | 20          | 21.1       | 20.2        | 105       | 101        | 80-120       | 5   | 20      |            |
| Naphthalene                               | ug/L  | 20          | 18.5       | 18.4        | 92        | 92         | 80-120       | 0   | 20      |            |
| o-Xylene                                  | ug/L  | 20          | 20.6       | 20.1        | 103       | 101        | 80-120       | 2   | 20      |            |
| Toluene                                   | ug/L  | 20          | 20.6       | 20.1        | 103       | 100        | 80-120       | 2   | 20      |            |
| a,a,a-Trifluorotoluene (S)                | %     |             |            |             | 103       | 103        | 80-120       |     |         |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: |       | 1394752     |             | 1394753     |      |      |     |     |        |     |       |        |
|----------------------------------------|-------|-------------|-------------|-------------|------|------|-----|-----|--------|-----|-------|--------|
| Parameter                              | Units | 40138479004 | MS          | MSD         | MS   | MSD  | MS  | MSD | % Rec  | Max | Qual  |        |
|                                        |       | Result      | Spike Conc. | Spike Conc. |      |      |     |     |        |     |       | Result |
| 1,2,4-Trimethylbenzene                 | ug/L  | 263         | 100         | 100         | 411  | 408  | 148 | 145 | 48-177 | 1   | 20    |        |
| 1,3,5-Trimethylbenzene                 | ug/L  | 59.7        | 100         | 100         | 185  | 184  | 125 | 125 | 73-145 | 0   | 20    |        |
| Benzene                                | ug/L  | 1130        | 100         | 100         | 1130 | 1130 | 3   | 1   | 74-139 | 0   | 20 M1 |        |
| Ethylbenzene                           | ug/L  | 395         | 100         | 100         | 478  | 477  | 83  | 82  | 74-140 | 0   | 20    |        |
| m&p-Xylene                             | ug/L  | 1180        | 200         | 200         | 1440 | 1430 | 130 | 124 | 55-165 | 1   | 20    |        |
| Methyl-tert-butyl ether                | ug/L  | <2.4        | 100         | 100         | 101  | 100  | 101 | 100 | 80-120 | 1   | 20    |        |
| Naphthalene                            | ug/L  | 74.7        | 100         | 100         | 169  | 168  | 95  | 93  | 73-133 | 1   | 20    |        |
| o-Xylene                               | ug/L  | 324         | 100         | 100         | 446  | 443  | 122 | 118 | 73-136 | 1   | 20    |        |
| Toluene                                | ug/L  | 301         | 100         | 100         | 387  | 385  | 86  | 84  | 80-128 | 0   | 20    |        |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1394752 1394753 |       |                       |                      |                       |              |               |             |              |                 |            |     |      |
|--------------------------------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| Parameter                                              | Units | 40138479004<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
| a,a,a-Trifluorotoluene (S)                             | %     |                       |                      |                       |              |               | 102         | 103          | 80-120          |            |     |      |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

QC Batch: 235462 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40138479001, 40138479002, 40138479003

METHOD BLANK: 1395480 Matrix: Water  
Associated Lab Samples: 40138479001, 40138479002, 40138479003

| Parameter       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|-------|--------------|-----------------|----------------|------------|
| Lead, Dissolved | ug/L  | <3.0         | 12.0            | 09/20/16 16:41 |            |

LABORATORY CONTROL SAMPLE: 1395481

| Parameter       | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------|-------|-------------|------------|-----------|--------------|------------|
| Lead, Dissolved | ug/L  | 500         | 457        | 91        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395482 1395483

| Parameter       | Units | 40138373001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Lead, Dissolved | ug/L  | <3.0               | 500            | 500             | 451       | 452        | 90       | 90        | 75-125       | 0   | 20      |      |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

QC Batch: 235685 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40138479004, 40138479005, 40138479006

METHOD BLANK: 1397038 Matrix: Water  
Associated Lab Samples: 40138479004, 40138479005, 40138479006

| Parameter       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|-------|--------------|-----------------|----------------|------------|
| Lead, Dissolved | ug/L  | <3.0         | 12.0            | 09/22/16 12:51 |            |

LABORATORY CONTROL SAMPLE: 1397039

| Parameter       | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------|-------|-------------|------------|-----------|--------------|------------|
| Lead, Dissolved | ug/L  | 500         | 461        | 92        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1397040 1397041

| Parameter       | Units | 40138490030 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Lead, Dissolved | ug/L  | <12.0              | 500            | 500             | 467       | 471        | 93       | 94        | 75-125       | 1   | 20      |      |

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## QUALIFIERS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138479

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -3.6 ug/L.

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

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138479

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40138479001 | MW1       | WI MOD GRO      | 235226   |                   |                  |
| 40138479002 | MW2       | WI MOD GRO      | 235226   |                   |                  |
| 40138479003 | MW3       | WI MOD GRO      | 235226   |                   |                  |
| 40138479004 | MW4       | WI MOD GRO      | 235226   |                   |                  |
| 40138479005 | MW5       | WI MOD GRO      | 235226   |                   |                  |
| 40138479006 | MW6       | WI MOD GRO      | 235226   |                   |                  |
| 40138479001 | MW1       | EPA 6010        | 235462   |                   |                  |
| 40138479002 | MW2       | EPA 6010        | 235462   |                   |                  |
| 40138479003 | MW3       | EPA 6010        | 235462   |                   |                  |
| 40138479004 | MW4       | EPA 6010        | 235685   |                   |                  |
| 40138479005 | MW5       | EPA 6010        | 235685   |                   |                  |
| 40138479006 | MW6       | EPA 6010        | 235685   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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www.pacelabs.com

# CHAIN OF CUSTODY

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

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

**Regulatory Program:** PEPA

**Data Package Options**  
(billable)  
☐ EPA Level III  
☐ EPA Level IV  
**MS/MSD**  
☐ On your sample (billable)  
☐ NOT needed on your sample  
**Matrix Codes**  
A = Air B = Biota C = Charcoal O = Oil S = Soil SI = Sludge  
W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WP = Waste Water

**CLIENT FIELD ID**

| DATE    | TIME  | MATRIX |
|---------|-------|--------|
| 9/13/16 | 11:30 | GW     |
| 9/13/16 | 12:51 | GW     |
| 9/13/16 | 2:00  | GW     |
| 9/13/16 | 3:50  | GW     |
| 9/13/16 | 5:17  | GW     |
| 9/13/16 | 7:00  | GW     |

| Y / M | Day | Time  | Matrix | Analysis Requested |
|-------|-----|-------|--------|--------------------|
| 9/13  | 13  | 11:30 | GW     | X                  |
| 9/13  | 13  | 12:51 | GW     | X                  |
| 9/13  | 13  | 2:00  | GW     | X                  |
| 9/13  | 13  | 3:50  | GW     | X                  |
| 9/13  | 13  | 5:17  | GW     | X                  |
| 9/13  | 13  | 7:00  | GW     | X                  |

| Quote #: | Client COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|----------|-----------------|-----------------------------|-----------|
|          |                 | 3-40ml vials 1-250ml vials  |           |

|                  |  |
|------------------|--|
| Mail To Contact: |  |
| Mail To Company: |  |
| Mail To Address: |  |

|                     |  |
|---------------------|--|
| Invoice To Contact: |  |
| Invoice To Company: |  |
| Invoice To Address: |  |

|                   |  |
|-------------------|--|
| Invoice To Phone: |  |
|-------------------|--|

|                                                                                                                                                                   |  |                                                                    |                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rush Turnaround Time Requested - Prelims</b><br>(Rush TAT subject to approval/surcharge)<br>Date Needed: <u>9/17/16 0800</u>                                   |  | Received By: <u>[Signature]</u><br>Date/Time: <u>9/17/16 08:30</u> | PACE Project No.                                                                                                                                |
| Transmit Prelim Rush Results by (complete what you want):<br>Email #1: <u>Waltko</u><br>Email #2: <u>Waltko</u><br>Telephone: <u>Waltko</u><br>Fax: <u>Waltko</u> |  | Received By: <u>[Signature]</u><br>Date/Time: <u>9/17/16 0800</u>  | Receipt Temp = <u>ROT</u> °C<br>Sample Receipt pH <u>OK</u> adjusted<br>Cooler Custody Seal <u>Present (Not Present)</u><br>Intact / Not Intact |

# Sample Condition Upon Receipt

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

**Pace Analytical**

Client Name: REI

Project #

WO#: **40138479**

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

Tracking #: 1159704-2



40138479

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

NA

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:       

Biological Tissue is Frozen: ☐ yes

Temp Blank Present: ☐ yes ☒ no

☐ no

Person examining contents:

Date: 9/17/16

Initials: BB

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

|                                                                                                                                      |                                                                                                  |                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Chain of Custody Present:                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                                                                                                                 |
| Chain of Custody Filled Out:                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                                                                                                                 |
| Chain of Custody Relinquished:                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                                                                                 |
| 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11.                                                                                                                |
| Sample Labels match COC:                                                                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. <u>002 - 2 vials 20 mw32 mm9/17/16</u>                                                                         |
| -Includes date/time/ID/Analysis Matrix: <u>W</u>                                                                                     |                                                                                                  |                                                                                                                    |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.)                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13. <u>HNO3</u> <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |                                                                                                                    |
| exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:                                                             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed <u>BIA</u> Lab Std #ID of preservative Date/Time:                                           |
| Headspace in VOA Vials (>6mm):                                                                                                       | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14.                                                                                                                |
| Trip Blank Present:                                                                                                                  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.                                                                                                                |
| Trip Blank Custody Seals Present                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                    |
| Pace Trip Blank Lot # (if purchased):                                                                                                |                                                                                                  |                                                                                                                    |

Client Notification/ Resolution:

If checked, see attached form for additional comments ☐

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: BB

Date: 9-17-16



September 26, 2016

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

RE: Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

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### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

| Lab ID      | Sample ID   | Matrix | Date Collected | Date Received  |
|-------------|-------------|--------|----------------|----------------|
| 40138480001 | MW3 @ 0-2   | Solid  | 09/13/16 10:00 | 09/17/16 08:00 |
| 40138480002 | MW3 @ 10-12 | Solid  | 09/13/16 10:15 | 09/17/16 08:00 |
| 40138480003 | MW4 @ 2-4   | Solid  | 09/13/16 12:20 | 09/17/16 08:00 |
| 40138480004 | MW4 @ 10-12 | Solid  | 09/13/16 12:35 | 09/17/16 08:00 |
| 40138480005 | MW6 @ 2-4   | Solid  | 09/13/16 16:30 | 09/17/16 08:00 |
| 40138480006 | MW6 @ 10-12 | Solid  | 09/13/16 16:50 | 09/17/16 08:00 |
| 40138480007 | MW7 @ 2-4   | Solid  | 09/14/16 08:30 | 09/17/16 08:00 |
| 40138480008 | MW7 @ 12-14 | Solid  | 09/14/16 08:45 | 09/17/16 08:00 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

| Lab ID      | Sample ID   | Method        | Analysts | Analytes Reported |
|-------------|-------------|---------------|----------|-------------------|
| 40138480001 | MW3 @ 0-2   | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480002 | MW3 @ 10-12 | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480003 | MW4 @ 2-4   | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480004 | MW4 @ 10-12 | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480005 | MW6 @ 2-4   | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480006 | MW6 @ 10-12 | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480007 | MW7 @ 2-4   | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |
| 40138480008 | MW7 @ 12-14 | WI MOD GRO    | ALD      | 10                |
|             |             | EPA 6010      | DLB      | 1                 |
|             |             | ASTM D2974-87 | MAV      | 1                 |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

**Sample: MW3 @ 0-2**      **Lab ID: 40138480001**      Collected: 09/13/16 10:00      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results       | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual  |
|--------------------------------------------------------------------------------------------|---------------|-------|--------|------|----|----------------|----------------|-------------|-------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |               |       |        |      |    |                |                |             |       |
| Benzene                                                                                    | <b>1380J</b>  | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 71-43-2     |       |
| Ethylbenzene                                                                               | <b>73600</b>  | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 100-41-4    |       |
| Methyl-tert-butyl ether                                                                    | <b>2290J</b>  | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 1634-04-4   |       |
| Naphthalene                                                                                | <b>32400</b>  | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 91-20-3     |       |
| Toluene                                                                                    | <b>9030</b>   | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 108-88-3    |       |
| 1,2,4-Trimethylbenzene                                                                     | <b>186000</b> | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 95-63-6     |       |
| 1,3,5-Trimethylbenzene                                                                     | <b>66300</b>  | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 108-67-8    |       |
| m&p-Xylene                                                                                 | <b>237000</b> | ug/kg | 5480   | 2280 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 179601-23-1 |       |
| o-Xylene                                                                                   | <b>104000</b> | ug/kg | 2740   | 1140 | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 95-47-6     |       |
| <b>Surrogates</b>                                                                          |               |       |        |      |    |                |                |             |       |
| a,a,a-Trifluorotoluene (S)                                                                 | 131           | %     | 80-120 |      | 40 | 09/22/16 07:34 | 09/22/16 16:40 | 98-08-8     | S7    |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |               |       |        |      |    |                |                |             |       |
| Lead                                                                                       | <b>195</b>    | mg/kg | 1.3    | 0.46 | 1  | 09/21/16 12:47 | 09/22/16 16:58 | 7439-92-1   | M0,R1 |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |               |       |        |      |    |                |                |             |       |
| Percent Moisture                                                                           | <b>6.7</b>    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 15:41 |             |       |

**Sample: MW3 @ 10-12**      **Lab ID: 40138480002**      Collected: 09/13/16 10:15      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results         | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|-----------------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |                 |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <b>&lt;33.3</b> | ug/kg | 80.0   | 33.3 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <b>85.0J</b>    | ug/kg | 117    | 48.9 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <b>&lt;33.3</b> | ug/kg | 80.0   | 33.3 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 1634-04-4   | W    |
| Naphthalene                                                                                | <b>52.3J</b>    | ug/kg | 117    | 48.9 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 91-20-3     |      |
| Toluene                                                                                    | <b>&lt;33.3</b> | ug/kg | 80.0   | 33.3 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <b>287</b>      | ug/kg | 117    | 48.9 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                     | <b>126</b>      | ug/kg | 117    | 48.9 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 108-67-8    |      |
| m&p-Xylene                                                                                 | <b>303</b>      | ug/kg | 235    | 97.8 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 179601-23-1 |      |
| o-Xylene                                                                                   | <b>128</b>      | ug/kg | 117    | 48.9 | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |                 |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 104             | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 13:16 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |                 |       |        |      |    |                |                |             |      |
| Lead                                                                                       | <b>14.0</b>     | mg/kg | 1.7    | 0.61 | 1  | 09/21/16 12:47 | 09/22/16 17:04 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |                 |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | <b>31.8</b>     | %     | 0.10   | 0.10 | 1  |                | 09/22/16 15:41 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

**Sample: MW4 @ 2-4**      **Lab ID: 40138480003**      Collected: 09/13/16 12:20      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual  |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|-------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |       |
| Benzene                                                                                    | 6850    | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 71-43-2     |       |
| Ethylbenzene                                                                               | 84700   | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 100-41-4    |       |
| Methyl-tert-butyl ether                                                                    | 4480    | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 1634-04-4   |       |
| Naphthalene                                                                                | 36100   | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 91-20-3     |       |
| Toluene                                                                                    | 68600   | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 108-88-3    |       |
| 1,2,4-Trimethylbenzene                                                                     | 192000  | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 95-63-6     |       |
| 1,3,5-Trimethylbenzene                                                                     | 67000   | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 108-67-8    |       |
| m&p-Xylene                                                                                 | 248000  | ug/kg | 5610   | 2340 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 179601-23-1 |       |
| o-Xylene                                                                                   | 106000  | ug/kg | 2800   | 1170 | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 95-47-6     |       |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |       |
| a,a,a-Trifluorotoluene (S)                                                                 | 109     | %     | 80-120 |      | 40 | 09/22/16 07:34 | 09/22/16 17:06 | 98-08-8     | 1q,P4 |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |       |
| Lead                                                                                       | 82.1    | mg/kg | 1.4    | 0.49 | 1  | 09/21/16 12:47 | 09/22/16 17:07 | 7439-92-1   |       |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |       |
| Percent Moisture                                                                           | 14.4    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 15:41 |             |       |

**Sample: MW4 @ 10-12**      **Lab ID: 40138480004**      Collected: 09/13/16 12:35      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual  |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|-------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |       |
| Benzene                                                                                    | 139     | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 71-43-2     |       |
| Ethylbenzene                                                                               | 787     | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 100-41-4    |       |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 1634-04-4   | W     |
| Naphthalene                                                                                | 738     | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 91-20-3     |       |
| Toluene                                                                                    | 562     | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 108-88-3    |       |
| 1,2,4-Trimethylbenzene                                                                     | 2780    | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 95-63-6     |       |
| 1,3,5-Trimethylbenzene                                                                     | 1190    | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 108-67-8    |       |
| m&p-Xylene                                                                                 | 3550    | ug/kg | 173    | 71.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 179601-23-1 |       |
| o-Xylene                                                                                   | 1410    | ug/kg | 86.3   | 35.9 | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 95-47-6     |       |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |       |
| a,a,a-Trifluorotoluene (S)                                                                 | 114     | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 16:14 | 98-08-8     | 1q,P4 |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |       |
| Lead                                                                                       | 18.0    | mg/kg | 1.6    | 0.58 | 1  | 09/21/16 12:47 | 09/22/16 17:09 | 7439-92-1   |       |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |       |
| Percent Moisture                                                                           | 30.4    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 15:42 |             |       |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

**Sample: MW6 @ 2-4**      **Lab ID: 40138480005**      Collected: 09/13/16 16:30      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 1634-04-4   | W    |
| Naphthalene                                                                                | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 91-20-3     | W    |
| Toluene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | <50.0   | ug/kg | 120    | 50.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 179601-23-1 | W    |
| o-Xylene                                                                                   | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 99      | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 13:41 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 4.3     | mg/kg | 1.3    | 0.47 | 1  | 09/21/16 12:47 | 09/22/16 17:12 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 15.6    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 15:42 |             |      |

**Sample: MW6 @ 10-12**      **Lab ID: 40138480006**      Collected: 09/13/16 16:50      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | 447     | ug/kg | 83.9   | 35.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 71-43-2     |      |
| Ethylbenzene                                                                               | 73.0J   | ug/kg | 83.9   | 35.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 1634-04-4   | W    |
| Naphthalene                                                                                | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 91-20-3     | W    |
| Toluene                                                                                    | 234     | ug/kg | 83.9   | 35.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | 114J    | ug/kg | 168    | 69.9 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 179601-23-1 |      |
| o-Xylene                                                                                   | 42.0J   | ug/kg | 83.9   | 35.0 | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 95-47-6     |      |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 103     | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 14:07 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 12.0    | mg/kg | 1.5    | 0.55 | 1  | 09/21/16 12:47 | 09/22/16 17:19 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 28.5    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 16:10 |             |      |

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## ANALYTICAL RESULTS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

**Sample: MW7 @ 2-4**      **Lab ID: 40138480007**      Collected: 09/14/16 08:30      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual  |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|-------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |       |
| Benzene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 71-43-2     | W     |
| Ethylbenzene                                                                               | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 100-41-4    | W     |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 1634-04-4   | W     |
| Naphthalene                                                                                | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 91-20-3     | W     |
| Toluene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 108-88-3    | W     |
| 1,2,4-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 95-63-6     | W     |
| 1,3,5-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 108-67-8    | W     |
| m&p-Xylene                                                                                 | <50.0   | ug/kg | 120    | 50.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 179601-23-1 | W     |
| o-Xylene                                                                                   | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 95-47-6     | W     |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |       |
| a,a,a-Trifluorotoluene (S)                                                                 | 100     | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 19:13 | 98-08-8     | 1q,P4 |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |       |
| Lead                                                                                       | 5.2     | mg/kg | 1.3    | 0.46 | 1  | 09/21/16 12:47 | 09/22/16 17:21 | 7439-92-1   |       |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |       |
| Percent Moisture                                                                           | 16.4    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 16:10 |             |       |

**Sample: MW7 @ 12-14**      **Lab ID: 40138480008**      Collected: 09/14/16 08:45      Received: 09/17/16 08:00      Matrix: Solid

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

| Parameters                                                                                 | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|--------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO    Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 71-43-2     | W    |
| Ethylbenzene                                                                               | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 1634-04-4   | W    |
| Naphthalene                                                                                | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 91-20-3     | W    |
| Toluene                                                                                    | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                     | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 108-67-8    | W    |
| m&p-Xylene                                                                                 | <50.0   | ug/kg | 120    | 50.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 179601-23-1 | W    |
| o-Xylene                                                                                   | <25.0   | ug/kg | 60.0   | 25.0 | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                          |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                 | 101     | %     | 80-120 |      | 1  | 09/22/16 07:34 | 09/22/16 14:32 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010    Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                       | 1.6     | mg/kg | 1.2    | 0.44 | 1  | 09/21/16 12:47 | 09/22/16 17:24 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                   |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                           | 13.7    | %     | 0.10   | 0.10 | 1  |                | 09/22/16 16:10 |             |      |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

|                         |                                                                                                        |                       |                 |
|-------------------------|--------------------------------------------------------------------------------------------------------|-----------------------|-----------------|
| QC Batch:               | 235708                                                                                                 | Analysis Method:      | WI MOD GRO      |
| QC Batch Method:        | TPH GRO/PVOC WI ext.                                                                                   | Analysis Description: | WIGRO Solid GCV |
| Associated Lab Samples: | 40138480001, 40138480002, 40138480003, 40138480004, 40138480005, 40138480006, 40138480007, 40138480008 |                       |                 |

|                         |                                                                                                        |         |       |
|-------------------------|--------------------------------------------------------------------------------------------------------|---------|-------|
| METHOD BLANK:           | 1397417                                                                                                | Matrix: | Solid |
| Associated Lab Samples: | 40138480001, 40138480002, 40138480003, 40138480004, 40138480005, 40138480006, 40138480007, 40138480008 |         |       |

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| 1,3,5-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| Benzene                    | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| Ethylbenzene               | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| m&p-Xylene                 | ug/kg | <50.0        | 100             | 09/22/16 08:23 |            |
| Methyl-tert-butyl ether    | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| Naphthalene                | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| o-Xylene                   | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| Toluene                    | ug/kg | <25.0        | 50.0            | 09/22/16 08:23 |            |
| a,a,a-Trifluorotoluene (S) | %     | 99           | 80-120          | 09/22/16 08:23 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1397418

| Parameter                  | Units | 1397419     |            |             |           |            |              |     |         |            |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
|                            |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,2,4-Trimethylbenzene     | ug/kg | 1000        | 915        | 960         | 91        | 96         | 80-120       | 5   | 20      |            |
| 1,3,5-Trimethylbenzene     | ug/kg | 1000        | 906        | 948         | 91        | 95         | 80-120       | 5   | 20      |            |
| Benzene                    | ug/kg | 1000        | 982        | 988         | 98        | 99         | 80-120       | 1   | 20      |            |
| Ethylbenzene               | ug/kg | 1000        | 952        | 979         | 95        | 98         | 80-120       | 3   | 20      |            |
| m&p-Xylene                 | ug/kg | 2000        | 1890       | 1950        | 95        | 98         | 80-120       | 3   | 20      |            |
| Methyl-tert-butyl ether    | ug/kg | 1000        | 980        | 966         | 98        | 97         | 80-120       | 1   | 20      |            |
| Naphthalene                | ug/kg | 1000        | 882        | 910         | 88        | 91         | 80-120       | 3   | 20      |            |
| o-Xylene                   | ug/kg | 1000        | 953        | 986         | 95        | 99         | 80-120       | 3   | 20      |            |
| Toluene                    | ug/kg | 1000        | 972        | 982         | 97        | 98         | 80-120       | 1   | 20      |            |
| a,a,a-Trifluorotoluene (S) | %     |             |            |             | 100       | 100        | 80-120       |     |         |            |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

|                         |                                                                                                        |                       |          |
|-------------------------|--------------------------------------------------------------------------------------------------------|-----------------------|----------|
| QC Batch:               | 235575                                                                                                 | Analysis Method:      | EPA 6010 |
| QC Batch Method:        | EPA 3050                                                                                               | Analysis Description: | 6010 MET |
| Associated Lab Samples: | 40138480001, 40138480002, 40138480003, 40138480004, 40138480005, 40138480006, 40138480007, 40138480008 |                       |          |

|                         |                                                                                                        |         |       |
|-------------------------|--------------------------------------------------------------------------------------------------------|---------|-------|
| METHOD BLANK:           | 1396294                                                                                                | Matrix: | Solid |
| Associated Lab Samples: | 40138480001, 40138480002, 40138480003, 40138480004, 40138480005, 40138480006, 40138480007, 40138480008 |         |       |

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | mg/kg | <0.43        | 1.2             | 09/22/16 16:53 |            |

LABORATORY CONTROL SAMPLE: 1396295

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead      | mg/kg | 50          | 47.0       | 94        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396296 1396297

| Parameter | Units | 40138480001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual  |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|-------|
| Lead      | mg/kg | 195                | 53.5           | 53.3            | 100       | 156        | -176     | -72       | 75-125       | 44  | 20      | M0,R1 |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

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QC Batch: 235851                      Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87                      Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 40138480001, 40138480002, 40138480003, 40138480004, 40138480005

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SAMPLE DUPLICATE: 1398294

| Parameter        | Units | 40138480002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 31.8                  | 31.2          | 2   | 10         |            |

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## QUALITY CONTROL DATA

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

|                         |                                       |                       |                             |
|-------------------------|---------------------------------------|-----------------------|-----------------------------|
| QC Batch:               | 235860                                | Analysis Method:      | ASTM D2974-87               |
| QC Batch Method:        | ASTM D2974-87                         | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 40138480006, 40138480007, 40138480008 |                       |                             |

SAMPLE DUPLICATE: 1398375

| Parameter        | Units | 40138481002<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 4.7                   | 4.8           | 3   | 10         |            |

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## QUALIFIERS

Project: 7367 AXUC HEDLUND DX  
Pace Project No.: 40138480

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

|    |                                                                                                             |
|----|-------------------------------------------------------------------------------------------------------------|
| 1q | Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.         |
| P4 | Sample field preservation does not meet EPA or method recommendations for this analysis.                    |
| R1 | RPD value was outside control limits.                                                                       |
| S7 | Surrogate recovery outside control limits (not confirmed by re-analysis).                                   |
| W  | Non-detect results are reported on a wet weight basis.                                                      |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 AXUC HEDLUND DX

Pace Project No.: 40138480

| Lab ID      | Sample ID   | QC Batch Method      | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|----------------------|----------|-------------------|------------------|
| 40138480001 | MW3 @ 0-2   | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480002 | MW3 @ 10-12 | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480003 | MW4 @ 2-4   | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480004 | MW4 @ 10-12 | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480005 | MW6 @ 2-4   | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480006 | MW6 @ 10-12 | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480007 | MW7 @ 2-4   | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480008 | MW7 @ 12-14 | TPH GRO/PVOC WI ext. | 235708   | WI MOD GRO        | 235772           |
| 40138480001 | MW3 @ 0-2   | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480002 | MW3 @ 10-12 | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480003 | MW4 @ 2-4   | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480004 | MW4 @ 10-12 | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480005 | MW6 @ 2-4   | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480006 | MW6 @ 10-12 | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480007 | MW7 @ 2-4   | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480008 | MW7 @ 12-14 | EPA 3050             | 235575   | EPA 6010          | 235771           |
| 40138480001 | MW3 @ 0-2   | ASTM D2974-87        | 235851   |                   |                  |
| 40138480002 | MW3 @ 10-12 | ASTM D2974-87        | 235851   |                   |                  |
| 40138480003 | MW4 @ 2-4   | ASTM D2974-87        | 235851   |                   |                  |
| 40138480004 | MW4 @ 10-12 | ASTM D2974-87        | 235851   |                   |                  |
| 40138480005 | MW6 @ 2-4   | ASTM D2974-87        | 235851   |                   |                  |
| 40138480006 | MW6 @ 10-12 | ASTM D2974-87        | 235860   |                   |                  |
| 40138480007 | MW7 @ 2-4   | ASTM D2974-87        | 235860   |                   |                  |
| 40138480008 | MW7 @ 12-14 | ASTM D2974-87        | 235860   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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# CHAIN OF CUSTODY

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

**Filtered?**  
(YES/NO)  
**PRESERVATION**  
(CODE)\*

**Regulatory Program:**

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

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

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

**CLIENT FIELD ID**

| PACE LAB # | DATE    | TIME  | MATRIX |
|------------|---------|-------|--------|
| 001        | 9/13/16 | 10:00 | Soil   |
| 002        | 9/13/16 | 12:15 | Soil   |
| 003        | 9/13/16 | 12:20 | Soil   |
| 004        | 9/13/16 | 12:35 | Soil   |
| 005        | 9/13/16 | 4:30  | Soil   |
| 006        | 9/13/16 | 4:50  | Soil   |
| 007        | 9/14    | 8:30  | Soil   |
| 008        | 9/14    | 8:45  | Soil   |

**Rush Turnaround Time Requested - Prelims**  
(Rush TAT subject to approval/surcharge)

**Date Needed:**

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

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

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

**Relinquished By:**

**Relinquished By:**

**Relinquished By:**

**Relinquished By:**

**Relinquished By:**

**Relinquished By:**

**Relinquished By:**

**Received By:**

**Received By:**

**Received By:**

**Received By:**

**Received By:**

**Received By:**

**Received By:**

**Date/Time:**

**Date/Time:**

**Date/Time:**

**Date/Time:**

**Date/Time:**

**Date/Time:**

**Date/Time:**

**PACE Project No.**

**Sample Receipt pH**

**Receipt Temp =**

**OK / Adjusted**

**Cooler Custody Seal**

**Present / Not Present**

**Intact / Not Intact**

# Sample Condition Upon Receipt

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

**Pace Analytical**

Client Name: REI

Project #

WO#: **40138480**

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

Tracking #: 1159704-2



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

NA

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr:       

Biological Tissue is Frozen: ☐ yes

Temp Blank Present: ☐ yes ☒ no

☐ no

Person examining contents:

Date: 9/17/16

Initials: BB

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

Comments:

|                                                                                                                                      |                                                                                                  |                                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Chain of Custody Present:                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.                                                                                                                              |
| Chain of Custody Filled Out:                                                                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                                                                                                                              |
| Chain of Custody Relinquished:                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                                                                                              |
| 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 checked="" type="checkbox"/> Yes <input 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 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 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.                                                                                                                             |
| -Includes date/time/ID/Analysis Matrix: <u>S</u>                                                                                     |                                                                                                  | <u>003 1-40ml/F no ID on label matched by pairing in shipping (process of elimination) 007 time on samples "820" BD 9/17/16</u> |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.)                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13.                                                                                                                             |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                                 |
| exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                              |                                                                                                                                 |
| Initial when completed                                                                                                               | Lab Std #ID of preservative                                                                      | Date/Time:                                                                                                                      |
| Headspace in VOA Vials (>6mm):                                                                                                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 14.                                                                                                                             |
| Trip Blank Present:                                                                                                                  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 15.                                                                                                                             |
| Trip Blank Custody Seals Present                                                                                                     | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                                 |
| Pace Trip Blank Lot # (if purchased):                                                                                                |                                                                                                  |                                                                                                                                 |

Client Notification/ Resolution:

Person Contacted:

Date/Time:

If checked, see attached form for additional comments ☐

Comments/ Resolution:

Project Manager Review:

Date: 9-19-16



October 04, 2016

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

RE: Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2016. 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  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

Alaska Certification UST-107

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

---

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP ID: 460263

Virginia VELAP Certification ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 40138889001 | MW7       | Water  | 09/21/16 09:14 | 09/23/16 09:00 |
| 40138889002 | 10531     | Water  | 09/21/16 08:45 | 09/23/16 09:00 |
| 40138889003 | 10561     | Water  | 09/21/16 09:15 | 09/23/16 09:00 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| Lab ID      | Sample ID | Method     | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|------------|----------|-------------------|------------|
| 40138889001 | MW7       | WI MOD GRO | ALD      | 10                | PASI-G     |
|             |           | EPA 6010   | DLB      | 1                 | PASI-G     |
| 40138889002 | 10531     | EPA 6010   | DLB      | 1                 | PASI-G     |
|             |           | EPA 524.2  | DJB      | 75                | PASI-M     |
| 40138889003 | 10561     | EPA 6010   | DLB      | 1                 | PASI-G     |
|             |           | EPA 524.2  | DJB      | 75                | PASI-M     |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

| Sample: MW7 Lab ID: 40138889001 Collected: 09/21/16 09:14 Received: 09/23/16 09:00 Matrix: Water |         |       |        |      |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO                                                   |         |       |        |      |    |          |                |             |      |
| Benzene                                                                                          | <0.40   | ug/L  | 1.0    | 0.40 | 1  |          | 09/26/16 16:44 | 71-43-2     |      |
| Ethylbenzene                                                                                     | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 09/26/16 16:44 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                          | <0.48   | ug/L  | 1.0    | 0.48 | 1  |          | 09/26/16 16:44 | 1634-04-4   |      |
| Naphthalene                                                                                      | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 09/26/16 16:44 | 91-20-3     |      |
| Toluene                                                                                          | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 09/26/16 16:44 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 09/26/16 16:44 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 09/26/16 16:44 | 108-67-8    |      |
| m&p-Xylene                                                                                       | <0.80   | ug/L  | 2.0    | 0.80 | 1  |          | 09/26/16 16:44 | 179601-23-1 |      |
| o-Xylene                                                                                         | <0.45   | ug/L  | 1.0    | 0.45 | 1  |          | 09/26/16 16:44 | 95-47-6     |      |
| <b>Surrogates</b>                                                                                |         |       |        |      |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                       | 101     | %     | 80-120 |      | 1  |          | 09/26/16 16:44 | 98-08-8     | pH   |
| <b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010                                       |         |       |        |      |    |          |                |             |      |
| Lead, Dissolved                                                                                  | <3.0    | ug/L  | 12.0   | 3.0  | 1  |          | 09/28/16 21:48 | 7439-92-1   |      |

| Sample: 10531 Lab ID: 40138889002 Collected: 09/21/16 08:45 Received: 09/23/16 09:00 Matrix: Water |         |       |      |       |    |          |                |           |      |
|----------------------------------------------------------------------------------------------------|---------|-------|------|-------|----|----------|----------------|-----------|------|
| Parameters                                                                                         | Results | Units | LOQ  | LOD   | DF | Prepared | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010                                         |         |       |      |       |    |          |                |           |      |
| Lead, Dissolved                                                                                    | <3.0    | ug/L  | 12.0 | 3.0   | 1  |          | 09/28/16 21:50 | 7439-92-1 |      |
| <b>524.2 MSV</b> Analytical Method: EPA 524.2                                                      |         |       |      |       |    |          |                |           |      |
| Acetone                                                                                            | <1.9    | ug/L  | 20.0 | 1.9   | 1  |          | 09/30/16 15:07 | 67-64-1   |      |
| Acrylonitrile                                                                                      | <0.28   | ug/L  | 10.0 | 0.28  | 1  |          | 09/30/16 15:07 | 107-13-1  |      |
| Benzene                                                                                            | <0.086  | ug/L  | 0.50 | 0.086 | 1  |          | 09/30/16 15:07 | 71-43-2   |      |
| Bromobenzene                                                                                       | <0.081  | ug/L  | 0.50 | 0.081 | 1  |          | 09/30/16 15:07 | 108-86-1  |      |
| Bromochloromethane                                                                                 | <0.16   | ug/L  | 1.0  | 0.16  | 1  |          | 09/30/16 15:07 | 74-97-5   |      |
| Bromodichloromethane                                                                               | <0.090  | ug/L  | 1.0  | 0.090 | 1  |          | 09/30/16 15:07 | 75-27-4   |      |
| Bromoform                                                                                          | <0.23   | ug/L  | 4.0  | 0.23  | 1  |          | 09/30/16 15:07 | 75-25-2   |      |
| Bromomethane                                                                                       | <0.20   | ug/L  | 4.0  | 0.20  | 1  |          | 09/30/16 15:07 | 74-83-9   |      |
| 2-Butanone (MEK)                                                                                   | <0.19   | ug/L  | 5.0  | 0.19  | 1  |          | 09/30/16 15:07 | 78-93-3   |      |
| n-Butylbenzene                                                                                     | <0.081  | ug/L  | 0.50 | 0.081 | 1  |          | 09/30/16 15:07 | 104-51-8  |      |
| sec-Butylbenzene                                                                                   | <0.063  | ug/L  | 0.50 | 0.063 | 1  |          | 09/30/16 15:07 | 135-98-8  |      |
| tert-Butylbenzene                                                                                  | <0.097  | ug/L  | 0.50 | 0.097 | 1  |          | 09/30/16 15:07 | 98-06-6   |      |
| Carbon disulfide                                                                                   | <0.042  | ug/L  | 1.0  | 0.042 | 1  |          | 09/30/16 15:07 | 75-15-0   |      |
| Carbon tetrachloride                                                                               | <0.076  | ug/L  | 1.0  | 0.076 | 1  |          | 09/30/16 15:07 | 56-23-5   |      |
| Chlorobenzene                                                                                      | <0.068  | ug/L  | 0.50 | 0.068 | 1  |          | 09/30/16 15:07 | 108-90-7  |      |
| Chloroethane                                                                                       | <0.18   | ug/L  | 1.0  | 0.18  | 1  |          | 09/30/16 15:07 | 75-00-3   |      |
| Chloroform                                                                                         | <0.10   | ug/L  | 1.0  | 0.10  | 1  |          | 09/30/16 15:07 | 67-66-3   |      |
| Chloromethane                                                                                      | <0.21   | ug/L  | 4.0  | 0.21  | 1  |          | 09/30/16 15:07 | 74-87-3   |      |
| 2-Chlorotoluene                                                                                    | <0.11   | ug/L  | 0.50 | 0.11  | 1  |          | 09/30/16 15:07 | 95-49-8   |      |
| 4-Chlorotoluene                                                                                    | <0.10   | ug/L  | 0.50 | 0.10  | 1  |          | 09/30/16 15:07 | 106-43-4  |      |
| 1,2-Dibromo-3-chloropropane                                                                        | <0.18   | ug/L  | 4.0  | 0.18  | 1  |          | 09/30/16 15:07 | 96-12-8   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

**Sample: 10531**      **Lab ID: 40138889002**      Collected: 09/21/16 08:45      Received: 09/23/16 09:00      Matrix: Water

| Parameters                    | Results | Units                        | LOQ  | LOD   | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-------------------------------|---------|------------------------------|------|-------|----|----------|----------------|------------|------|
| <b>524.2 MSV</b>              |         | Analytical Method: EPA 524.2 |      |       |    |          |                |            |      |
| Dibromochloromethane          | <0.13   | ug/L                         | 0.50 | 0.13  | 1  |          | 09/30/16 15:07 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)       | <0.091  | ug/L                         | 0.50 | 0.091 | 1  |          | 09/30/16 15:07 | 106-93-4   |      |
| Dibromomethane                | <0.098  | ug/L                         | 1.0  | 0.098 | 1  |          | 09/30/16 15:07 | 74-95-3    |      |
| 1,2-Dichlorobenzene           | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 09/30/16 15:07 | 95-50-1    |      |
| 1,3-Dichlorobenzene           | <0.082  | ug/L                         | 0.50 | 0.082 | 1  |          | 09/30/16 15:07 | 541-73-1   |      |
| 1,4-Dichlorobenzene           | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 09/30/16 15:07 | 106-46-7   |      |
| trans-1,4-Dichloro-2-butene   | <0.15   | ug/L                         | 10.0 | 0.15  | 1  |          | 09/30/16 15:07 | 110-57-6   |      |
| Dichlorodifluoromethane       | <0.16   | ug/L                         | 1.0  | 0.16  | 1  |          | 09/30/16 15:07 | 75-71-8    |      |
| 1,1-Dichloroethane            | <0.088  | ug/L                         | 0.50 | 0.088 | 1  |          | 09/30/16 15:07 | 75-34-3    |      |
| 1,2-Dichloroethane            | <0.092  | ug/L                         | 0.50 | 0.092 | 1  |          | 09/30/16 15:07 | 107-06-2   |      |
| 1,1-Dichloroethene            | <0.089  | ug/L                         | 0.50 | 0.089 | 1  |          | 09/30/16 15:07 | 75-35-4    |      |
| cis-1,2-Dichloroethene        | <0.085  | ug/L                         | 1.0  | 0.085 | 1  |          | 09/30/16 15:07 | 156-59-2   |      |
| trans-1,2-Dichloroethene      | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:07 | 156-60-5   |      |
| 1,2-Dichloropropane           | <0.084  | ug/L                         | 4.0  | 0.084 | 1  |          | 09/30/16 15:07 | 78-87-5    |      |
| 1,3-Dichloropropane           | <0.094  | ug/L                         | 0.50 | 0.094 | 1  |          | 09/30/16 15:07 | 142-28-9   |      |
| 2,2-Dichloropropane           | <0.097  | ug/L                         | 1.0  | 0.097 | 1  |          | 09/30/16 15:07 | 594-20-7   |      |
| 1,1-Dichloropropene           | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 09/30/16 15:07 | 563-58-6   |      |
| cis-1,3-Dichloropropene       | <0.071  | ug/L                         | 0.50 | 0.071 | 1  |          | 09/30/16 15:07 | 10061-01-5 |      |
| trans-1,3-Dichloropropene     | <0.055  | ug/L                         | 0.50 | 0.055 | 1  |          | 09/30/16 15:07 | 10061-02-6 |      |
| Ethylbenzene                  | <0.051  | ug/L                         | 0.50 | 0.051 | 1  |          | 09/30/16 15:07 | 100-41-4   |      |
| Ethyl methacrylate            | <0.071  | ug/L                         | 5.0  | 0.071 | 1  |          | 09/30/16 15:07 | 97-63-2    |      |
| Hexachloro-1,3-butadiene      | <0.11   | ug/L                         | 4.0  | 0.11  | 1  |          | 09/30/16 15:07 | 87-68-3    |      |
| 2-Hexanone                    | <0.19   | ug/L                         | 5.0  | 0.19  | 1  |          | 09/30/16 15:07 | 591-78-6   |      |
| Isopropylbenzene (Cumene)     | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:07 | 98-82-8    |      |
| p-Isopropyltoluene            | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 09/30/16 15:07 | 99-87-6    |      |
| Methylene Chloride            | <0.20   | ug/L                         | 4.0  | 0.20  | 1  |          | 09/30/16 15:07 | 75-09-2    |      |
| Methyl methacrylate           | <0.12   | ug/L                         | 5.0  | 0.12  | 1  |          | 09/30/16 15:07 | 80-62-6    |      |
| 4-Methyl-2-pentanone (MIBK)   | <0.34   | ug/L                         | 5.0  | 0.34  | 1  |          | 09/30/16 15:07 | 108-10-1   |      |
| Methyl-tert-butyl ether       | <0.058  | ug/L                         | 0.50 | 0.058 | 1  |          | 09/30/16 15:07 | 1634-04-4  |      |
| Naphthalene                   | <0.064  | ug/L                         | 4.0  | 0.064 | 1  |          | 09/30/16 15:07 | 91-20-3    |      |
| 2-Nitropropane                | <0.42   | ug/L                         | 10.0 | 0.42  | 1  |          | 09/30/16 15:07 | 79-46-9    |      |
| n-Propylbenzene               | <0.096  | ug/L                         | 0.50 | 0.096 | 1  |          | 09/30/16 15:07 | 103-65-1   |      |
| Styrene                       | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 09/30/16 15:07 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane     | <0.062  | ug/L                         | 0.50 | 0.062 | 1  |          | 09/30/16 15:07 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane     | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:07 | 79-34-5    |      |
| Tetrachloroethene             | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 09/30/16 15:07 | 127-18-4   |      |
| Toluene                       | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 09/30/16 15:07 | 108-88-3   |      |
| Total Trihalomethanes (Calc.) | <2.0    | ug/L                         | 4.0  | 2.0   | 1  |          | 09/30/16 15:07 |            |      |
| 1,2,3-Trichlorobenzene        | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 09/30/16 15:07 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene        | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 09/30/16 15:07 | 120-82-1   |      |
| 1,1,1-Trichloroethane         | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 09/30/16 15:07 | 71-55-6    |      |
| 1,1,2-Trichloroethane         | <0.098  | ug/L                         | 0.50 | 0.098 | 1  |          | 09/30/16 15:07 | 79-00-5    |      |
| Trichloroethene               | <0.044  | ug/L                         | 0.40 | 0.044 | 1  |          | 09/30/16 15:07 | 79-01-6    |      |
| Trichlorofluoromethane        | <0.13   | ug/L                         | 0.50 | 0.13  | 1  |          | 09/30/16 15:07 | 75-69-4    |      |
| 1,2,3-Trichloropropane        | <0.073  | ug/L                         | 4.0  | 0.073 | 1  |          | 09/30/16 15:07 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene        | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 09/30/16 15:07 | 95-63-6    |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

| Sample: 10531             |         | Lab ID: 40138889002          |        | Collected: 09/21/16 08:45 |    | Received: 09/23/16 09:00 |                | Matrix: Water |      |
|---------------------------|---------|------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                | Results | Units                        | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>524.2 MSV</b>          |         | Analytical Method: EPA 524.2 |        |                           |    |                          |                |               |      |
| 1,3,5-Trimethylbenzene    | <0.078  | ug/L                         | 0.50   | 0.078                     | 1  |                          | 09/30/16 15:07 | 108-67-8      |      |
| Vinyl chloride            | <0.098  | ug/L                         | 0.20   | 0.098                     | 1  |                          | 09/30/16 15:07 | 75-01-4       |      |
| Xylene (Total)            | <0.073  | ug/L                         | 1.5    | 0.073                     | 1  |                          | 09/30/16 15:07 | 1330-20-7     |      |
| m&p-Xylene                | <0.073  | ug/L                         | 1.0    | 0.073                     | 1  |                          | 09/30/16 15:07 | 179601-23-1   |      |
| o-Xylene                  | <0.073  | ug/L                         | 0.50   | 0.073                     | 1  |                          | 09/30/16 15:07 | 95-47-6       |      |
| <b>Surrogates</b>         |         |                              |        |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)  | 91      | %                            | 75-125 |                           | 1  |                          | 09/30/16 15:07 | 460-00-4      |      |
| Toluene-d8 (S)            | 98      | %                            | 75-125 |                           | 1  |                          | 09/30/16 15:07 | 2037-26-5     |      |
| 1,2-Dichloroethane-d4 (S) | 115     | %                            | 75-125 |                           | 1  |                          | 09/30/16 15:07 | 17060-07-0    |      |

| Sample: 10561                  |         | Lab ID: 40138889003          |      | Collected: 09/21/16 09:15 |    | Received: 09/23/16 09:00 |                | Matrix: Water |      |
|--------------------------------|---------|------------------------------|------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                     | Results | Units                        | LOQ  | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010  |      |                           |    |                          |                |               |      |
| Lead, Dissolved                | <3.0    | ug/L                         | 12.0 | 3.0                       | 1  |                          | 09/28/16 21:53 | 7439-92-1     |      |
| <b>524.2 MSV</b>               |         | Analytical Method: EPA 524.2 |      |                           |    |                          |                |               |      |
| Acetone                        | <1.9    | ug/L                         | 20.0 | 1.9                       | 1  |                          | 09/30/16 15:29 | 67-64-1       |      |
| Acrylonitrile                  | <0.28   | ug/L                         | 10.0 | 0.28                      | 1  |                          | 09/30/16 15:29 | 107-13-1      |      |
| Benzene                        | <0.086  | ug/L                         | 0.50 | 0.086                     | 1  |                          | 09/30/16 15:29 | 71-43-2       |      |
| Bromobenzene                   | <0.081  | ug/L                         | 0.50 | 0.081                     | 1  |                          | 09/30/16 15:29 | 108-86-1      |      |
| Bromochloromethane             | <0.16   | ug/L                         | 1.0  | 0.16                      | 1  |                          | 09/30/16 15:29 | 74-97-5       |      |
| Bromodichloromethane           | <0.090  | ug/L                         | 1.0  | 0.090                     | 1  |                          | 09/30/16 15:29 | 75-27-4       |      |
| Bromoform                      | <0.23   | ug/L                         | 4.0  | 0.23                      | 1  |                          | 09/30/16 15:29 | 75-25-2       |      |
| Bromomethane                   | <0.20   | ug/L                         | 4.0  | 0.20                      | 1  |                          | 09/30/16 15:29 | 74-83-9       |      |
| 2-Butanone (MEK)               | <0.19   | ug/L                         | 5.0  | 0.19                      | 1  |                          | 09/30/16 15:29 | 78-93-3       |      |
| n-Butylbenzene                 | <0.081  | ug/L                         | 0.50 | 0.081                     | 1  |                          | 09/30/16 15:29 | 104-51-8      |      |
| sec-Butylbenzene               | <0.063  | ug/L                         | 0.50 | 0.063                     | 1  |                          | 09/30/16 15:29 | 135-98-8      |      |
| tert-Butylbenzene              | <0.097  | ug/L                         | 0.50 | 0.097                     | 1  |                          | 09/30/16 15:29 | 98-06-6       |      |
| Carbon disulfide               | <0.042  | ug/L                         | 1.0  | 0.042                     | 1  |                          | 09/30/16 15:29 | 75-15-0       |      |
| Carbon tetrachloride           | <0.076  | ug/L                         | 1.0  | 0.076                     | 1  |                          | 09/30/16 15:29 | 56-23-5       |      |
| Chlorobenzene                  | <0.068  | ug/L                         | 0.50 | 0.068                     | 1  |                          | 09/30/16 15:29 | 108-90-7      |      |
| Chloroethane                   | <0.18   | ug/L                         | 1.0  | 0.18                      | 1  |                          | 09/30/16 15:29 | 75-00-3       |      |
| Chloroform                     | <0.10   | ug/L                         | 1.0  | 0.10                      | 1  |                          | 09/30/16 15:29 | 67-66-3       |      |
| Chloromethane                  | <0.21   | ug/L                         | 4.0  | 0.21                      | 1  |                          | 09/30/16 15:29 | 74-87-3       |      |
| 2-Chlorotoluene                | <0.11   | ug/L                         | 0.50 | 0.11                      | 1  |                          | 09/30/16 15:29 | 95-49-8       |      |
| 4-Chlorotoluene                | <0.10   | ug/L                         | 0.50 | 0.10                      | 1  |                          | 09/30/16 15:29 | 106-43-4      |      |
| 1,2-Dibromo-3-chloropropane    | <0.18   | ug/L                         | 4.0  | 0.18                      | 1  |                          | 09/30/16 15:29 | 96-12-8       |      |
| Dibromochloromethane           | <0.13   | ug/L                         | 0.50 | 0.13                      | 1  |                          | 09/30/16 15:29 | 124-48-1      |      |
| 1,2-Dibromoethane (EDB)        | <0.091  | ug/L                         | 0.50 | 0.091                     | 1  |                          | 09/30/16 15:29 | 106-93-4      |      |
| Dibromomethane                 | <0.098  | ug/L                         | 1.0  | 0.098                     | 1  |                          | 09/30/16 15:29 | 74-95-3       |      |
| 1,2-Dichlorobenzene            | <0.10   | ug/L                         | 0.50 | 0.10                      | 1  |                          | 09/30/16 15:29 | 95-50-1       |      |
| 1,3-Dichlorobenzene            | <0.082  | ug/L                         | 0.50 | 0.082                     | 1  |                          | 09/30/16 15:29 | 541-73-1      |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

**Sample: 10561**      **Lab ID: 40138889003**      Collected: 09/21/16 09:15      Received: 09/23/16 09:00      Matrix: Water

| Parameters                    | Results | Units                        | LOQ  | LOD   | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-------------------------------|---------|------------------------------|------|-------|----|----------|----------------|-------------|------|
| <b>524.2 MSV</b>              |         | Analytical Method: EPA 524.2 |      |       |    |          |                |             |      |
| 1,4-Dichlorobenzene           | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 09/30/16 15:29 | 106-46-7    |      |
| trans-1,4-Dichloro-2-butene   | <0.15   | ug/L                         | 10.0 | 0.15  | 1  |          | 09/30/16 15:29 | 110-57-6    |      |
| Dichlorodifluoromethane       | <0.16   | ug/L                         | 1.0  | 0.16  | 1  |          | 09/30/16 15:29 | 75-71-8     |      |
| 1,1-Dichloroethane            | <0.088  | ug/L                         | 0.50 | 0.088 | 1  |          | 09/30/16 15:29 | 75-34-3     |      |
| 1,2-Dichloroethane            | <0.092  | ug/L                         | 0.50 | 0.092 | 1  |          | 09/30/16 15:29 | 107-06-2    |      |
| 1,1-Dichloroethene            | <0.089  | ug/L                         | 0.50 | 0.089 | 1  |          | 09/30/16 15:29 | 75-35-4     |      |
| cis-1,2-Dichloroethene        | <0.085  | ug/L                         | 1.0  | 0.085 | 1  |          | 09/30/16 15:29 | 156-59-2    |      |
| trans-1,2-Dichloroethene      | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:29 | 156-60-5    |      |
| 1,2-Dichloropropane           | <0.084  | ug/L                         | 4.0  | 0.084 | 1  |          | 09/30/16 15:29 | 78-87-5     |      |
| 1,3-Dichloropropane           | <0.094  | ug/L                         | 0.50 | 0.094 | 1  |          | 09/30/16 15:29 | 142-28-9    |      |
| 2,2-Dichloropropane           | <0.097  | ug/L                         | 1.0  | 0.097 | 1  |          | 09/30/16 15:29 | 594-20-7    |      |
| 1,1-Dichloropropene           | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 09/30/16 15:29 | 563-58-6    |      |
| cis-1,3-Dichloropropene       | <0.071  | ug/L                         | 0.50 | 0.071 | 1  |          | 09/30/16 15:29 | 10061-01-5  |      |
| trans-1,3-Dichloropropene     | <0.055  | ug/L                         | 0.50 | 0.055 | 1  |          | 09/30/16 15:29 | 10061-02-6  |      |
| Ethylbenzene                  | <0.051  | ug/L                         | 0.50 | 0.051 | 1  |          | 09/30/16 15:29 | 100-41-4    |      |
| Ethyl methacrylate            | <0.071  | ug/L                         | 5.0  | 0.071 | 1  |          | 09/30/16 15:29 | 97-63-2     |      |
| Hexachloro-1,3-butadiene      | <0.11   | ug/L                         | 4.0  | 0.11  | 1  |          | 09/30/16 15:29 | 87-68-3     |      |
| 2-Hexanone                    | <0.19   | ug/L                         | 5.0  | 0.19  | 1  |          | 09/30/16 15:29 | 591-78-6    |      |
| Isopropylbenzene (Cumene)     | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:29 | 98-82-8     |      |
| p-Isopropyltoluene            | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 09/30/16 15:29 | 99-87-6     |      |
| Methylene Chloride            | <0.20   | ug/L                         | 4.0  | 0.20  | 1  |          | 09/30/16 15:29 | 75-09-2     |      |
| Methyl methacrylate           | <0.12   | ug/L                         | 5.0  | 0.12  | 1  |          | 09/30/16 15:29 | 80-62-6     |      |
| 4-Methyl-2-pentanone (MIBK)   | <0.34   | ug/L                         | 5.0  | 0.34  | 1  |          | 09/30/16 15:29 | 108-10-1    |      |
| Methyl-tert-butyl ether       | <0.058  | ug/L                         | 0.50 | 0.058 | 1  |          | 09/30/16 15:29 | 1634-04-4   |      |
| Naphthalene                   | <0.064  | ug/L                         | 4.0  | 0.064 | 1  |          | 09/30/16 15:29 | 91-20-3     |      |
| 2-Nitropropane                | <0.42   | ug/L                         | 10.0 | 0.42  | 1  |          | 09/30/16 15:29 | 79-46-9     |      |
| n-Propylbenzene               | <0.096  | ug/L                         | 0.50 | 0.096 | 1  |          | 09/30/16 15:29 | 103-65-1    |      |
| Styrene                       | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 09/30/16 15:29 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane     | <0.062  | ug/L                         | 0.50 | 0.062 | 1  |          | 09/30/16 15:29 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane     | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 09/30/16 15:29 | 79-34-5     |      |
| Tetrachloroethene             | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 09/30/16 15:29 | 127-18-4    |      |
| Toluene                       | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 09/30/16 15:29 | 108-88-3    |      |
| Total Trihalomethanes (Calc.) | <2.0    | ug/L                         | 4.0  | 2.0   | 1  |          | 09/30/16 15:29 |             |      |
| 1,2,3-Trichlorobenzene        | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 09/30/16 15:29 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene        | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 09/30/16 15:29 | 120-82-1    |      |
| 1,1,1-Trichloroethane         | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 09/30/16 15:29 | 71-55-6     |      |
| 1,1,2-Trichloroethane         | <0.098  | ug/L                         | 0.50 | 0.098 | 1  |          | 09/30/16 15:29 | 79-00-5     |      |
| Trichloroethene               | <0.044  | ug/L                         | 0.40 | 0.044 | 1  |          | 09/30/16 15:29 | 79-01-6     |      |
| Trichlorofluoromethane        | <0.13   | ug/L                         | 0.50 | 0.13  | 1  |          | 09/30/16 15:29 | 75-69-4     |      |
| 1,2,3-Trichloropropane        | <0.073  | ug/L                         | 4.0  | 0.073 | 1  |          | 09/30/16 15:29 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene        | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 09/30/16 15:29 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene        | <0.078  | ug/L                         | 0.50 | 0.078 | 1  |          | 09/30/16 15:29 | 108-67-8    |      |
| Vinyl chloride                | <0.098  | ug/L                         | 0.20 | 0.098 | 1  |          | 09/30/16 15:29 | 75-01-4     |      |
| Xylene (Total)                | <0.073  | ug/L                         | 1.5  | 0.073 | 1  |          | 09/30/16 15:29 | 1330-20-7   |      |
| m&p-Xylene                    | <0.073  | ug/L                         | 1.0  | 0.073 | 1  |          | 09/30/16 15:29 | 179601-23-1 |      |
| o-Xylene                      | <0.073  | ug/L                         | 0.50 | 0.073 | 1  |          | 09/30/16 15:29 | 95-47-6     |      |

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## ANALYTICAL RESULTS

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

**Sample: 10561**      **Lab ID: 40138889003**      Collected: 09/21/16 09:15      Received: 09/23/16 09:00      Matrix: Water

| Parameters                   | Results | Units | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|-------|--------|-----|----|----------|----------------|------------|------|
| <b>524.2 MSV</b>             |         |       |        |     |    |          |                |            |      |
| Analytical Method: EPA 524.2 |         |       |        |     |    |          |                |            |      |
| <b>Surrogates</b>            |         |       |        |     |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 92      | %.    | 75-125 |     | 1  |          | 09/30/16 15:29 | 460-00-4   |      |
| Toluene-d8 (S)               | 95      | %.    | 75-125 |     | 1  |          | 09/30/16 15:29 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 114     | %.    | 75-125 |     | 1  |          | 09/30/16 15:29 | 17060-07-0 |      |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

|                         |             |                       |                 |
|-------------------------|-------------|-----------------------|-----------------|
| QC Batch:               | 236132      | Analysis Method:      | WI MOD GRO      |
| QC Batch Method:        | WI MOD GRO  | Analysis Description: | WIGRO GCV Water |
| Associated Lab Samples: | 40138889001 |                       |                 |

METHOD BLANK: 1400352 Matrix: Water  
Associated Lab Samples: 40138889001

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 09/26/16 11:11 |            |
| 1,3,5-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 09/26/16 11:11 |            |
| Benzene                    | ug/L  | <0.40        | 1.0             | 09/26/16 11:11 |            |
| Ethylbenzene               | ug/L  | <0.39        | 1.0             | 09/26/16 11:11 |            |
| m&p-Xylene                 | ug/L  | <0.80        | 2.0             | 09/26/16 11:11 |            |
| Methyl-tert-butyl ether    | ug/L  | <0.48        | 1.0             | 09/26/16 11:11 |            |
| Naphthalene                | ug/L  | <0.42        | 1.0             | 09/26/16 11:11 |            |
| o-Xylene                   | ug/L  | <0.45        | 1.0             | 09/26/16 11:11 |            |
| Toluene                    | ug/L  | <0.39        | 1.0             | 09/26/16 11:11 |            |
| a,a,a-Trifluorotoluene (S) | %     | 103          | 80-120          | 09/26/16 11:11 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1400353

| LABORATORY CONTROL SAMPLE & LCSD: 1400353 |       |             | 1400354    |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 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          | 19.6       | 19.6        | 98        | 98         | 80-120       | 0   | 20      |            |
| 1,3,5-Trimethylbenzene                    | ug/L  | 20          | 18.6       | 18.5        | 93        | 93         | 80-120       | 0   | 20      |            |
| Benzene                                   | ug/L  | 20          | 19.3       | 19.2        | 97        | 96         | 80-120       | 0   | 20      |            |
| Ethylbenzene                              | ug/L  | 20          | 18.6       | 18.6        | 93        | 93         | 80-120       | 0   | 20      |            |
| m&p-Xylene                                | ug/L  | 40          | 36.7       | 36.6        | 92        | 91         | 80-120       | 0   | 20      |            |
| Methyl-tert-butyl ether                   | ug/L  | 20          | 19.8       | 19.7        | 99        | 99         | 80-120       | 0   | 20      |            |
| Naphthalene                               | ug/L  | 20          | 20.2       | 20.5        | 101       | 103        | 80-120       | 2   | 20      |            |
| o-Xylene                                  | ug/L  | 20          | 19.1       | 18.9        | 95        | 94         | 80-120       | 1   | 20      |            |
| Toluene                                   | ug/L  | 20          | 19.0       | 19.0        | 95        | 95         | 80-120       | 0   | 20      |            |
| a,a,a-Trifluorotoluene (S)                | %     |             |            |             | 102       | 101        | 80-120       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400457

| Parameter               | Units | 1400458            |                |                 |           |            |          |           |              |     |         |
|-------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|
|                         |       | 40138855003 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD |
| 1,2,4-Trimethylbenzene  | ug/L  | 636                | 200            | 200             | 861       | 881        | 113      | 123       | 48-177       | 2   | 20      |
| 1,3,5-Trimethylbenzene  | ug/L  | 110                | 200            | 200             | 322       | 324        | 106      | 107       | 73-145       | 1   | 20      |
| Benzene                 | ug/L  | 57.5               | 200            | 200             | 217       | 218        | 80       | 80        | 74-139       | 0   | 20      |
| Ethylbenzene            | ug/L  | 509                | 200            | 200             | 718       | 731        | 105      | 111       | 74-140       | 2   | 20      |
| m&p-Xylene              | ug/L  | 1410               | 400            | 400             | 1830      | 1870       | 106      | 115       | 55-165       | 2   | 20      |
| Methyl-tert-butyl ether | ug/L  | 6.3J               | 200            | 200             | 173       | 172        | 83       | 83        | 80-120       | 1   | 20      |
| Naphthalene             | ug/L  | 228                | 200            | 200             | 456       | 465        | 114      | 119       | 73-133       | 2   | 20      |
| o-Xylene                | ug/L  | 514                | 200            | 200             | 729       | 741        | 108      | 114       | 73-136       | 2   | 20      |
| Toluene                 | ug/L  | 446                | 200            | 200             | 640       | 652        | 97       | 103       | 80-128       | 2   | 20      |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400457 1400458 |       |                       |                      |                       |              |               |             |              |                 |            |            |      |
|--------------------------------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|------------|------|
| Parameter                                              | Units | 40138855003<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | Max<br>RPD | Qual |
| a,a,a-Trifluorotoluene (S)                             | %     |                       |                      |                       |              |               | 99          | 104          | 80-120          |            |            | pH   |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

QC Batch: 236420 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40138889001, 40138889002, 40138889003

METHOD BLANK: 1401500 Matrix: Water  
Associated Lab Samples: 40138889001, 40138889002, 40138889003

| Parameter       | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------|-------|--------------|-----------------|----------------|------------|
| Lead, Dissolved | ug/L  | <3.0         | 12.0            | 09/28/16 20:48 |            |

LABORATORY CONTROL SAMPLE: 1401501

| Parameter       | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------|-------|-------------|------------|-----------|--------------|------------|
| Lead, Dissolved | ug/L  | 500         | 474        | 95        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401502 1401503

| Parameter       | Units | 40138869010 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Lead, Dissolved | ug/L  | 3.9J               | 500            | 500             | 482       | 477        | 96       | 95        | 75-125       | 1   | 20      |      |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

|                                                  |           |                       |           |
|--------------------------------------------------|-----------|-----------------------|-----------|
| QC Batch:                                        | 438462    | Analysis Method:      | EPA 524.2 |
| QC Batch Method:                                 | EPA 524.2 | Analysis Description: | 524.2 MSV |
| Associated Lab Samples: 40138889002, 40138889003 |           |                       |           |

METHOD BLANK: 2381572 Matrix: Water

Associated Lab Samples: 40138889002, 40138889003

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.062       | 0.50            | 09/30/16 12:11 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.10        | 0.50            | 09/30/16 12:11 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.11        | 0.50            | 09/30/16 12:11 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.098       | 0.50            | 09/30/16 12:11 |            |
| 1,1-Dichloroethane          | ug/L  | <0.088       | 0.50            | 09/30/16 12:11 |            |
| 1,1-Dichloroethene          | ug/L  | <0.089       | 0.50            | 09/30/16 12:11 |            |
| 1,1-Dichloropropene         | ug/L  | <0.080       | 0.50            | 09/30/16 12:11 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.10        | 0.50            | 09/30/16 12:11 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.073       | 4.0             | 09/30/16 12:11 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.12        | 0.50            | 09/30/16 12:11 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.083       | 0.50            | 09/30/16 12:11 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.18        | 4.0             | 09/30/16 12:11 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.091       | 0.50            | 09/30/16 12:11 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.10        | 0.50            | 09/30/16 12:11 |            |
| 1,2-Dichloroethane          | ug/L  | <0.092       | 0.50            | 09/30/16 12:11 |            |
| 1,2-Dichloropropane         | ug/L  | <0.084       | 4.0             | 09/30/16 12:11 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.078       | 0.50            | 09/30/16 12:11 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.082       | 0.50            | 09/30/16 12:11 |            |
| 1,3-Dichloropropane         | ug/L  | <0.094       | 0.50            | 09/30/16 12:11 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.075       | 0.50            | 09/30/16 12:11 |            |
| 2,2-Dichloropropane         | ug/L  | <0.097       | 1.0             | 09/30/16 12:11 |            |
| 2-Butanone (MEK)            | ug/L  | <0.19        | 5.0             | 09/30/16 12:11 |            |
| 2-Chlorotoluene             | ug/L  | <0.11        | 0.50            | 09/30/16 12:11 |            |
| 2-Hexanone                  | ug/L  | <0.19        | 5.0             | 09/30/16 12:11 |            |
| 2-Nitropropane              | ug/L  | <0.42        | 10.0            | 09/30/16 12:11 |            |
| 4-Chlorotoluene             | ug/L  | <0.10        | 0.50            | 09/30/16 12:11 |            |
| 4-Methyl-2-pentanone (MIBK) | ug/L  | <0.34        | 5.0             | 09/30/16 12:11 |            |
| Acetone                     | ug/L  | <1.9         | 20.0            | 09/30/16 12:11 |            |
| Acrylonitrile               | ug/L  | <0.28        | 10.0            | 09/30/16 12:11 |            |
| Benzene                     | ug/L  | <0.086       | 0.50            | 09/30/16 12:11 |            |
| Bromobenzene                | ug/L  | <0.081       | 0.50            | 09/30/16 12:11 |            |
| Bromochloromethane          | ug/L  | <0.16        | 1.0             | 09/30/16 12:11 |            |
| Bromodichloromethane        | ug/L  | <0.090       | 1.0             | 09/30/16 12:11 |            |
| Bromoform                   | ug/L  | <0.23        | 4.0             | 09/30/16 12:11 |            |
| Bromomethane                | ug/L  | <0.20        | 4.0             | 09/30/16 12:11 |            |
| Carbon disulfide            | ug/L  | <0.042       | 1.0             | 09/30/16 12:11 |            |
| Carbon tetrachloride        | ug/L  | <0.076       | 1.0             | 09/30/16 12:11 |            |
| Chlorobenzene               | ug/L  | <0.068       | 0.50            | 09/30/16 12:11 |            |
| Chloroethane                | ug/L  | <0.18        | 1.0             | 09/30/16 12:11 |            |
| Chloroform                  | ug/L  | <0.10        | 1.0             | 09/30/16 12:11 |            |
| Chloromethane               | ug/L  | <0.21        | 4.0             | 09/30/16 12:11 |            |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

METHOD BLANK: 2381572

Matrix: Water

Associated Lab Samples: 40138889002, 40138889003

| Parameter                     | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-------------------------------|-------|--------------|-----------------|----------------|------------|
| cis-1,2-Dichloroethene        | ug/L  | <0.085       | 1.0             | 09/30/16 12:11 |            |
| cis-1,3-Dichloropropene       | ug/L  | <0.071       | 0.50            | 09/30/16 12:11 |            |
| Dibromochloromethane          | ug/L  | <0.13        | 0.50            | 09/30/16 12:11 |            |
| Dibromomethane                | ug/L  | <0.098       | 1.0             | 09/30/16 12:11 |            |
| Dichlorodifluoromethane       | ug/L  | <0.16        | 1.0             | 09/30/16 12:11 |            |
| Ethyl methacrylate            | ug/L  | <0.071       | 5.0             | 09/30/16 12:11 |            |
| Ethylbenzene                  | ug/L  | <0.051       | 0.50            | 09/30/16 12:11 |            |
| Hexachloro-1,3-butadiene      | ug/L  | <0.11        | 4.0             | 09/30/16 12:11 |            |
| Isopropylbenzene (Cumene)     | ug/L  | <0.11        | 0.50            | 09/30/16 12:11 |            |
| m&p-Xylene                    | ug/L  | <0.073       | 1.0             | 09/30/16 12:11 |            |
| Methyl methacrylate           | ug/L  | <0.12        | 5.0             | 09/30/16 12:11 |            |
| Methyl-tert-butyl ether       | ug/L  | <0.058       | 0.50            | 09/30/16 12:11 |            |
| Methylene Chloride            | ug/L  | <0.20        | 4.0             | 09/30/16 12:11 |            |
| n-Butylbenzene                | ug/L  | <0.081       | 0.50            | 09/30/16 12:11 |            |
| n-Propylbenzene               | ug/L  | <0.096       | 0.50            | 09/30/16 12:11 |            |
| Naphthalene                   | ug/L  | <0.064       | 4.0             | 09/30/16 12:11 |            |
| o-Xylene                      | ug/L  | <0.073       | 0.50            | 09/30/16 12:11 |            |
| p-Isopropyltoluene            | ug/L  | <0.083       | 0.50            | 09/30/16 12:11 |            |
| sec-Butylbenzene              | ug/L  | <0.063       | 0.50            | 09/30/16 12:11 |            |
| Styrene                       | ug/L  | <0.075       | 0.50            | 09/30/16 12:11 |            |
| tert-Butylbenzene             | ug/L  | <0.097       | 0.50            | 09/30/16 12:11 |            |
| Tetrachloroethene             | ug/L  | <0.12        | 0.50            | 09/30/16 12:11 |            |
| Toluene                       | ug/L  | <0.080       | 0.50            | 09/30/16 12:11 |            |
| Total Trihalomethanes (Calc.) | ug/L  | <2.0         | 4.0             | 09/30/16 12:11 |            |
| trans-1,2-Dichloroethene      | ug/L  | <0.11        | 0.50            | 09/30/16 12:11 |            |
| trans-1,3-Dichloropropene     | ug/L  | <0.055       | 0.50            | 09/30/16 12:11 |            |
| trans-1,4-Dichloro-2-butene   | ug/L  | <0.15        | 10.0            | 09/30/16 12:11 |            |
| Trichloroethene               | ug/L  | <0.044       | 0.40            | 09/30/16 12:11 |            |
| Trichlorofluoromethane        | ug/L  | <0.13        | 0.50            | 09/30/16 12:11 |            |
| Vinyl chloride                | ug/L  | <0.098       | 0.20            | 09/30/16 12:11 |            |
| Xylene (Total)                | ug/L  | <0.073       | 1.5             | 09/30/16 12:11 |            |
| 1,2-Dichloroethane-d4 (S)     | %     | 110          | 75-125          | 09/30/16 12:11 |            |
| 4-Bromofluorobenzene (S)      | %     | 93           | 75-125          | 09/30/16 12:11 |            |
| Toluene-d8 (S)                | %     | 99           | 75-125          | 09/30/16 12:11 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2381573

2381574

| Parameter                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L  | 20          | 22.6       | 21.0        | 113       | 105        | 70-130       | 7   | 20      |            |
| 1,1,1-Trichloroethane     | ug/L  | 20          | 21.6       | 19.4        | 108       | 97         | 70-130       | 11  | 20      |            |
| 1,1,2,2-Tetrachloroethane | ug/L  | 20          | 17.7       | 18.1        | 88        | 90         | 70-130       | 2   | 20      |            |
| 1,1,2-Trichloroethane     | ug/L  | 20          | 20.3       | 19.6        | 102       | 98         | 70-130       | 4   | 20      |            |
| 1,1-Dichloroethane        | ug/L  | 20          | 19.9       | 18.3        | 99        | 91         | 70-130       | 8   | 20      |            |
| 1,1-Dichloroethene        | ug/L  | 20          | 19.9       | 18.4        | 99        | 92         | 70-130       | 8   | 20      |            |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| LABORATORY CONTROL SAMPLE & LCSD: 2381573 |       |             | 2381574    |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,1-Dichloropropene                       | ug/L  | 20          | 21.0       | 19.5        | 105       | 98         | 70-130       | 7   | 20      |            |
| 1,2,3-Trichlorobenzene                    | ug/L  | 20          | 18.2       | 17.5        | 91        | 87         | 70-130       | 4   | 20      |            |
| 1,2,3-Trichloropropane                    | ug/L  | 20          | 19.1       | 18.8        | 95        | 94         | 70-130       | 1   | 20      |            |
| 1,2,4-Trichlorobenzene                    | ug/L  | 20          | 17.4       | 16.7        | 87        | 84         | 70-130       | 4   | 20      |            |
| 1,2,4-Trimethylbenzene                    | ug/L  | 20          | 19.7       | 18.3        | 98        | 92         | 70-130       | 7   | 20      |            |
| 1,2-Dibromo-3-chloropropane               | ug/L  | 50          | 40.0       | 38.7        | 80        | 77         | 70-130       | 3   | 20      |            |
| 1,2-Dibromoethane (EDB)                   | ug/L  | 20          | 19.2       | 18.5        | 96        | 93         | 70-130       | 3   | 20      |            |
| 1,2-Dichlorobenzene                       | ug/L  | 20          | 19.9       | 19.1        | 99        | 96         | 70-130       | 4   | 20      |            |
| 1,2-Dichloroethane                        | ug/L  | 20          | 21.5       | 20.9        | 107       | 104        | 70-130       | 3   | 20      |            |
| 1,2-Dichloropropane                       | ug/L  | 20          | 20.2       | 18.8        | 101       | 94         | 70-130       | 7   | 20      |            |
| 1,3,5-Trimethylbenzene                    | ug/L  | 20          | 19.9       | 18.5        | 99        | 92         | 70-130       | 7   | 20      |            |
| 1,3-Dichlorobenzene                       | ug/L  | 20          | 20.0       | 18.8        | 100       | 94         | 70-130       | 6   | 20      |            |
| 1,3-Dichloropropane                       | ug/L  | 20          | 19.3       | 18.9        | 97        | 94         | 70-130       | 2   | 20      |            |
| 1,4-Dichlorobenzene                       | ug/L  | 20          | 19.5       | 18.9        | 97        | 94         | 70-130       | 3   | 20      |            |
| 2,2-Dichloropropane                       | ug/L  | 20          | 20.7       | 19.0        | 103       | 95         | 70-130       | 9   | 20      |            |
| 2-Butanone (MEK)                          | ug/L  | 100         | 85.4       | 86.0        | 85        | 86         | 70-130       | 1   | 20      |            |
| 2-Chlorotoluene                           | ug/L  | 20          | 18.8       | 17.4        | 94        | 87         | 70-130       | 8   | 20      |            |
| 2-Hexanone                                | ug/L  | 100         | 86.7       | 85.0        | 87        | 85         | 70-130       | 2   | 20      |            |
| 2-Nitropropane                            | ug/L  | 100         | 86.9       | 84.2        | 87        | 84         | 70-130       | 3   | 20      |            |
| 4-Chlorotoluene                           | ug/L  | 20          | 19.3       | 18.3        | 97        | 91         | 70-130       | 5   | 20      |            |
| 4-Methyl-2-pentanone (MIBK)               | ug/L  | 100         | 88.1       | 85.9        | 88        | 86         | 70-130       | 2   | 20      |            |
| Acetone                                   | ug/L  | 100         | 118        | 112         | 118       | 112        | 70-130       | 5   | 20      |            |
| Acrylonitrile                             | ug/L  | 200         | 180        | 178         | 90        | 89         | 70-130       | 1   | 20      |            |
| Benzene                                   | ug/L  | 20          | 19.3       | 17.7        | 96        | 89         | 70-130       | 8   | 20      |            |
| Bromobenzene                              | ug/L  | 20          | 18.4       | 17.6        | 92        | 88         | 70-130       | 5   | 20      |            |
| Bromochloromethane                        | ug/L  | 20          | 20.1       | 19.0        | 101       | 95         | 70-130       | 6   | 20      |            |
| Bromodichloromethane                      | ug/L  | 20          | 22.2       | 20.6        | 111       | 103        | 70-130       | 8   | 20      |            |
| Bromoform                                 | ug/L  | 20          | 19.9       | 18.9        | 100       | 95         | 70-130       | 5   | 20      |            |
| Bromomethane                              | ug/L  | 20          | 18.8       | 19.0        | 94        | 95         | 70-130       | 1   | 20      |            |
| Carbon disulfide                          | ug/L  | 20          | 19.6       | 18.1        | 98        | 90         | 70-130       | 8   | 20      |            |
| Carbon tetrachloride                      | ug/L  | 20          | 23.0       | 21.1        | 115       | 105        | 70-130       | 9   | 20      |            |
| Chlorobenzene                             | ug/L  | 20          | 19.7       | 18.5        | 99        | 92         | 70-130       | 6   | 20      |            |
| Chloroethane                              | ug/L  | 20          | 22.5       | 20.9        | 112       | 104        | 70-130       | 7   | 20      |            |
| Chloroform                                | ug/L  | 20          | 19.9       | 18.0        | 99        | 90         | 70-130       | 10  | 20      |            |
| Chloromethane                             | ug/L  | 20          | 19.9       | 18.3        | 100       | 91         | 70-130       | 9   | 20      |            |
| cis-1,2-Dichloroethene                    | ug/L  | 20          | 18.1       | 16.3        | 90        | 81         | 70-130       | 10  | 20      |            |
| cis-1,3-Dichloropropene                   | ug/L  | 20          | 22.2       | 20.7        | 111       | 104        | 70-130       | 7   | 20      |            |
| Dibromochloromethane                      | ug/L  | 20          | 20.8       | 19.6        | 104       | 98         | 70-130       | 6   | 20      |            |
| Dibromomethane                            | ug/L  | 20          | 22.3       | 20.5        | 111       | 103        | 70-130       | 8   | 20      |            |
| Dichlorodifluoromethane                   | ug/L  | 20          | 21.3       | 19.2        | 106       | 96         | 70-130       | 10  | 20      |            |
| Ethyl methacrylate                        | ug/L  | 20          | 19.3       | 18.7        | 96        | 93         | 70-130       | 3   | 20      |            |
| Ethylbenzene                              | ug/L  | 20          | 19.7       | 18.2        | 98        | 91         | 70-130       | 8   | 20      |            |
| Hexachloro-1,3-butadiene                  | ug/L  | 20          | 18.8       | 16.9        | 94        | 84         | 70-130       | 11  | 20      |            |
| Isopropylbenzene (Cumene)                 | ug/L  | 20          | 19.8       | 18.1        | 99        | 91         | 70-130       | 9   | 20      |            |
| m&p-Xylene                                | ug/L  | 40          | 41.0       | 37.7        | 103       | 94         | 70-130       | 8   | 20      |            |
| Methyl methacrylate                       | ug/L  | 20          | 18.3       | 18.0        | 92        | 90         | 70-130       | 2   | 20      |            |
| Methyl-tert-butyl ether                   | ug/L  | 20          | 17.6       | 17.4        | 88        | 87         | 70-130       | 1   | 20      |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

| LABORATORY CONTROL SAMPLE & LCSD: 2381573 |       |             | 2381574    |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| Methylene Chloride                        | ug/L  | 20          | 20.7       | 19.6        | 104       | 98         | 70-130       | 5   | 20      |            |
| n-Butylbenzene                            | ug/L  | 20          | 18.2       | 16.7        | 91        | 84         | 70-130       | 9   | 20      |            |
| n-Propylbenzene                           | ug/L  | 20          | 18.1       | 16.7        | 90        | 83         | 70-130       | 8   | 20      |            |
| Naphthalene                               | ug/L  | 20          | 15.8       | 15.7        | 79        | 78         | 70-130       | 1   | 20      |            |
| o-Xylene                                  | ug/L  | 20          | 20.5       | 18.8        | 103       | 94         | 70-130       | 9   | 20      |            |
| p-Isopropyltoluene                        | ug/L  | 20          | 19.3       | 17.9        | 96        | 90         | 70-130       | 7   | 20      |            |
| sec-Butylbenzene                          | ug/L  | 20          | 19.1       | 17.6        | 96        | 88         | 70-130       | 8   | 20      |            |
| Styrene                                   | ug/L  | 20          | 21.9       | 20.4        | 110       | 102        | 70-130       | 7   | 20      |            |
| tert-Butylbenzene                         | ug/L  | 20          | 18.6       | 17.1        | 93        | 85         | 70-130       | 8   | 20      |            |
| Tetrachloroethene                         | ug/L  | 20          | 19.5       | 17.5        | 98        | 88         | 70-130       | 11  | 20      |            |
| Toluene                                   | ug/L  | 20          | 19.4       | 18.1        | 97        | 90         | 70-130       | 7   | 20      |            |
| Total Trihalomethanes (Calc.)             | ug/L  | 80          | 82.8       | 77.1        | 104       | 96         | 70-130       | 7   | 20      |            |
| trans-1,2-Dichloroethene                  | ug/L  | 20          | 20.1       | 18.4        | 101       | 92         | 70-130       | 9   | 20      |            |
| trans-1,3-Dichloropropene                 | ug/L  | 20          | 21.4       | 19.9        | 107       | 99         | 70-130       | 8   | 20      |            |
| trans-1,4-Dichloro-2-butene               | ug/L  | 50          | 61.4       | 61.8        | 123       | 124        | 70-130       | 1   | 20      | CH         |
| Trichloroethene                           | ug/L  | 20          | 21.0       | 18.2        | 105       | 91         | 70-130       | 14  | 20      |            |
| Trichlorofluoromethane                    | ug/L  | 20          | 22.2       | 20.2        | 111       | 101        | 70-130       | 9   | 20      |            |
| Vinyl chloride                            | ug/L  | 20          | 19.4       | 17.6        | 97        | 88         | 70-130       | 9   | 20      |            |
| Xylene (Total)                            | ug/L  | 60          | 61.6       | 56.6        | 103       | 94         | 70-130       | 8   | 20      |            |
| 1,2-Dichloroethane-d4 (S)                 | %     |             |            |             | 102       | 102        | 75-125       |     |         |            |
| 4-Bromofluorobenzene (S)                  | %     |             |            |             | 90        | 93         | 75-125       |     |         |            |
| Toluene-d8 (S)                            | %     |             |            |             | 93        | 95         | 75-125       |     |         |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381575 |       |             | 2381576     |             |      |      |     |     |        |        |        |      |
|------------------------------------------------|-------|-------------|-------------|-------------|------|------|-----|-----|--------|--------|--------|------|
| Parameter                                      | Units | 40138880010 | MS          | MSD         | MS   | MSD  | MS  | MSD | % Rec  | Max    |        | Qual |
|                                                |       | Result      | Spike Conc. | Spike Conc. |      |      |     |     |        | Result | Result |      |
| 1,1,1,2-Tetrachloroethane                      | ug/L  | <0.062      | 20          | 20          | 22.0 | 21.8 | 110 | 109 | 70-130 | 1      | 20     |      |
| 1,1,1-Trichloroethane                          | ug/L  | <0.10       | 20          | 20          | 23.4 | 22.2 | 117 | 111 | 70-130 | 5      | 20     |      |
| 1,1,2,2-Tetrachloroethane                      | ug/L  | <0.11       | 20          | 20          | 18.4 | 18.2 | 92  | 91  | 70-130 | 1      | 20     |      |
| 1,1,2-Trichloroethane                          | ug/L  | <0.098      | 20          | 20          | 20.3 | 20.0 | 102 | 100 | 70-130 | 2      | 20     |      |
| 1,1-Dichloroethane                             | ug/L  | 0.36J       | 20          | 20          | 21.7 | 20.7 | 107 | 102 | 70-130 | 5      | 20     |      |
| 1,1-Dichloroethene                             | ug/L  | <0.089      | 20          | 20          | 23.4 | 22.1 | 117 | 111 | 70-130 | 6      | 20     |      |
| 1,1-Dichloropropene                            | ug/L  | <0.080      | 20          | 20          | 24.4 | 22.6 | 122 | 113 | 70-130 | 8      | 20     |      |
| 1,2,3-Trichlorobenzene                         | ug/L  | <0.10       | 20          | 20          | 19.3 | 19.0 | 96  | 95  | 70-130 | 1      | 20     |      |
| 1,2,3-Trichloropropane                         | ug/L  | <0.073      | 20          | 20          | 19.4 | 18.9 | 97  | 94  | 70-130 | 3      | 20     |      |
| 1,2,4-Trichlorobenzene                         | ug/L  | <0.12       | 20          | 20          | 18.3 | 18.1 | 91  | 91  | 70-130 | 1      | 20     |      |
| 1,2,4-Trimethylbenzene                         | ug/L  | <0.083      | 20          | 20          | 19.7 | 19.7 | 99  | 99  | 70-130 | 0      | 20     |      |
| 1,2-Dibromo-3-chloropropane                    | ug/L  | <0.18       | 50          | 50          | 43.6 | 41.0 | 87  | 82  | 70-130 | 6      | 20     |      |
| 1,2-Dibromoethane (EDB)                        | ug/L  | <0.091      | 20          | 20          | 19.6 | 19.2 | 98  | 96  | 70-130 | 2      | 20     |      |
| 1,2-Dichlorobenzene                            | ug/L  | <0.10       | 20          | 20          | 20.1 | 19.7 | 101 | 99  | 70-130 | 2      | 20     |      |
| 1,2-Dichloroethane                             | ug/L  | <0.092      | 20          | 20          | 22.4 | 21.3 | 112 | 107 | 70-130 | 5      | 20     |      |
| 1,2-Dichloropropane                            | ug/L  | <0.084      | 20          | 20          | 20.2 | 19.4 | 101 | 97  | 70-130 | 4      | 20     |      |
| 1,3,5-Trimethylbenzene                         | ug/L  | <0.078      | 20          | 20          | 20.2 | 19.9 | 101 | 99  | 70-130 | 2      | 20     |      |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381575 2381576 |       |             |       |       |       |        |        |       |        |        |       |
|--------------------------------------------------------|-------|-------------|-------|-------|-------|--------|--------|-------|--------|--------|-------|
| Parameter                                              | Units | 40138880010 |       | MS    | MSD   | MS     |        | MSD   | % Rec  |        | Max   |
|                                                        |       | Result      | Conc. | Spike | Spike | Result | Result | % Rec | % Rec  | Limits | RPD   |
| 1,3-Dichlorobenzene                                    | ug/L  | <0.082      | 20    | 20    | 20.1  | 20.0   | 100    | 100   | 70-130 | 1      | 20    |
| 1,3-Dichloropropane                                    | ug/L  | <0.094      | 20    | 20    | 19.6  | 19.1   | 98     | 96    | 70-130 | 3      | 20    |
| 1,4-Dichlorobenzene                                    | ug/L  | <0.075      | 20    | 20    | 19.3  | 19.4   | 96     | 97    | 70-130 | 1      | 20    |
| 2,2-Dichloropropane                                    | ug/L  | <0.097      | 20    | 20    | 22.7  | 22.1   | 114    | 110   | 70-130 | 3      | 20    |
| 2-Butanone (MEK)                                       | ug/L  | <0.19       | 100   | 100   | 91.9  | 83.6   | 92     | 84    | 70-130 | 10     | 20    |
| 2-Chlorotoluene                                        | ug/L  | <0.11       | 20    | 20    | 18.6  | 18.6   | 93     | 93    | 70-130 | 0      | 20    |
| 2-Hexanone                                             | ug/L  | <0.19       | 100   | 100   | 92.1  | 88.2   | 92     | 88    | 70-130 | 4      | 20    |
| 2-Nitropropane                                         | ug/L  | <0.42       | 100   | 100   | 86.6  | 86.6   | 87     | 87    | 70-130 | 0      | 20    |
| 4-Chlorotoluene                                        | ug/L  | <0.10       | 20    | 20    | 19.8  | 19.5   | 99     | 97    | 70-130 | 2      | 20    |
| 4-Methyl-2-pentanone (MIBK)                            | ug/L  | <0.34       | 100   | 100   | 90.6  | 87.8   | 91     | 88    | 70-130 | 3      | 20    |
| Acetone                                                | ug/L  | <1.9        | 100   | 100   | 106   | 107    | 106    | 107   | 70-130 | 1      | 20    |
| Acrylonitrile                                          | ug/L  | <0.28       | 200   | 200   | 187   | 174    | 93     | 87    | 70-130 | 7      | 20    |
| Benzene                                                | ug/L  | 0.29J       | 20    | 20    | 20.4  | 19.5   | 101    | 96    | 70-130 | 5      | 20    |
| Bromobenzene                                           | ug/L  | <0.081      | 20    | 20    | 19.0  | 18.8   | 95     | 94    | 70-130 | 1      | 20    |
| Bromochloromethane                                     | ug/L  | <0.16       | 20    | 20    | 20.3  | 18.6   | 101    | 93    | 70-130 | 8      | 20    |
| Bromodichloromethane                                   | ug/L  | <0.090      | 20    | 20    | 21.7  | 21.3   | 108    | 106   | 70-130 | 2      | 20    |
| Bromoform                                              | ug/L  | <0.23       | 20    | 20    | 19.7  | 19.6   | 98     | 98    | 70-130 | 1      | 20    |
| Bromomethane                                           | ug/L  | <0.20       | 20    | 20    | 22.6  | 23.7   | 113    | 119   | 70-130 | 5      | 20    |
| Carbon disulfide                                       | ug/L  | <0.042      | 20    | 20    | 22.4  | 21.6   | 112    | 108   | 70-130 | 4      | 20    |
| Carbon tetrachloride                                   | ug/L  | <0.076      | 20    | 20    | 26.0  | 24.4   | 130    | 122   | 70-130 | 7      | 20    |
| Chlorobenzene                                          | ug/L  | <0.068      | 20    | 20    | 19.6  | 19.4   | 98     | 97    | 70-130 | 1      | 20    |
| Chloroethane                                           | ug/L  | <0.18       | 20    | 20    | 24.6  | 24.4   | 123    | 122   | 70-130 | 1      | 20    |
| Chloroform                                             | ug/L  | <0.10       | 20    | 20    | 20.3  | 19.5   | 102    | 98    | 70-130 | 4      | 20    |
| Chloromethane                                          | ug/L  | <0.21       | 20    | 20    | 21.2  | 21.0   | 106    | 105   | 70-130 | 1      | 20    |
| cis-1,2-Dichloroethene                                 | ug/L  | 6.7         | 20    | 20    | 24.6  | 24.1   | 89     | 87    | 70-130 | 2      | 20    |
| cis-1,3-Dichloropropene                                | ug/L  | <0.071      | 20    | 20    | 21.1  | 20.6   | 105    | 103   | 70-130 | 2      | 20    |
| Dibromochloromethane                                   | ug/L  | <0.13       | 20    | 20    | 20.2  | 20.3   | 101    | 101   | 70-130 | 1      | 20    |
| Dibromomethane                                         | ug/L  | <0.098      | 20    | 20    | 21.7  | 20.8   | 108    | 104   | 70-130 | 4      | 20    |
| Dichlorodifluoromethane                                | ug/L  | <0.16       | 20    | 20    | 30.2  | 28.5   | 151    | 143   | 70-130 | 6      | 20 M1 |
| Ethyl methacrylate                                     | ug/L  | <0.071      | 20    | 20    | 19.8  | 18.4   | 99     | 92    | 70-130 | 7      | 20    |
| Ethylbenzene                                           | ug/L  | <0.051      | 20    | 20    | 20.0  | 20.3   | 100    | 101   | 70-130 | 1      | 20    |
| Hexachloro-1,3-butadiene                               | ug/L  | <0.11       | 20    | 20    | 22.0  | 20.6   | 110    | 103   | 70-130 | 6      | 20    |
| Isopropylbenzene (Cumene)                              | ug/L  | <0.11       | 20    | 20    | 20.1  | 20.3   | 101    | 101   | 70-130 | 1      | 20    |
| m&p-Xylene                                             | ug/L  | <0.073      | 40    | 40    | 40.9  | 40.4   | 102    | 101   | 70-130 | 1      | 20    |
| Methyl methacrylate                                    | ug/L  | <0.12       | 20    | 20    | 19.0  | 18.9   | 95     | 94    | 70-130 | 1      | 20    |
| Methyl-tert-butyl ether                                | ug/L  | <0.058      | 20    | 20    | 18.4  | 17.2   | 92     | 86    | 70-130 | 7      | 20    |
| Methylene Chloride                                     | ug/L  | <0.20       | 20    | 20    | 21.8  | 20.7   | 109    | 104   | 70-130 | 5      | 20    |
| n-Butylbenzene                                         | ug/L  | <0.081      | 20    | 20    | 19.6  | 19.3   | 98     | 97    | 70-130 | 1      | 20    |
| n-Propylbenzene                                        | ug/L  | <0.096      | 20    | 20    | 18.5  | 18.4   | 92     | 92    | 70-130 | 1      | 20    |
| Naphthalene                                            | ug/L  | <0.064      | 20    | 20    | 16.4  | 16.4   | 82     | 82    | 70-130 | 0      | 20    |
| o-Xylene                                               | ug/L  | <0.073      | 20    | 20    | 20.5  | 19.8   | 103    | 99    | 70-130 | 4      | 20    |
| p-Isopropyltoluene                                     | ug/L  | <0.083      | 20    | 20    | 19.8  | 20.2   | 99     | 101   | 70-130 | 2      | 20    |
| sec-Butylbenzene                                       | ug/L  | <0.063      | 20    | 20    | 20.0  | 20.1   | 100    | 100   | 70-130 | 0      | 20    |
| Styrene                                                | ug/L  | <0.075      | 20    | 20    | 22.0  | 21.5   | 110    | 107   | 70-130 | 2      | 20    |
| tert-Butylbenzene                                      | ug/L  | <0.097      | 20    | 20    | 19.1  | 18.9   | 95     | 94    | 70-130 | 1      | 20    |

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## QUALITY CONTROL DATA

Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2381575 2381576 |       |                       |                |                |              |               |             |              |                 |     |       |
|--------------------------------------------------------|-------|-----------------------|----------------|----------------|--------------|---------------|-------------|--------------|-----------------|-----|-------|
| Parameter                                              | Units | 40138880010<br>Result | MS             |                | MSD          |               | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max |       |
|                                                        |       |                       | Spike<br>Conc. | Spike<br>Conc. | MS<br>Result | MSD<br>Result |             |              |                 | RPD | RPD   |
| Tetrachloroethene                                      | ug/L  | <0.12                 | 20             | 20             | 20.5         | 20.0          | 103         | 100          | 70-130          | 3   | 20    |
| Toluene                                                | ug/L  | <0.080                | 20             | 20             | 20.2         | 19.8          | 101         | 99           | 70-130          | 2   | 20    |
| Total Trihalomethanes<br>(Calc.)                       | ug/L  | <2.0                  | 80             | 80             | 81.9         | 80.7          | 102         | 101          | 70-130          | 1   | 20    |
| trans-1,2-Dichloroethene                               | ug/L  | 1.5                   | 20             | 20             | 23.5         | 22.4          | 110         | 104          | 70-130          | 5   | 20    |
| trans-1,3-Dichloropropene                              | ug/L  | <0.055                | 20             | 20             | 21.3         | 20.9          | 106         | 104          | 70-130          | 2   | 20    |
| trans-1,4-Dichloro-2-butene                            | ug/L  | <0.15                 | 50             | 50             | 64.7         | 62.8          | 129         | 126          | 70-130          | 3   | 20 CH |
| Trichloroethene                                        | ug/L  | <0.044                | 20             | 20             | 21.6         | 20.4          | 108         | 102          | 70-130          | 6   | 20    |
| Trichlorofluoromethane                                 | ug/L  | <0.13                 | 20             | 20             | 28.6         | 27.7          | 143         | 139          | 70-130          | 3   | 20 M1 |
| Vinyl chloride                                         | ug/L  | 20.9                  | 20             | 20             | 42.0         | 42.1          | 105         | 106          | 70-130          | 0   | 20    |
| Xylene (Total)                                         | ug/L  | <0.073                | 60             | 60             | 61.4         | 60.2          | 102         | 100          | 70-130          | 2   | 20    |
| 1,2-Dichloroethane-d4 (S)                              | %.    |                       |                |                |              |               | 104         | 101          | 75-125          |     |       |
| 4-Bromofluorobenzene (S)                               | %.    |                       |                |                |              |               | 92          | 92           | 75-125          |     |       |
| Toluene-d8 (S)                                         | %.    |                       |                |                |              |               | 94          | 94           | 75-125          |     |       |

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## QUALIFIERS

Project: 7367 HEDLAND DX  
Pace Project No.: 40138889

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### 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  
PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

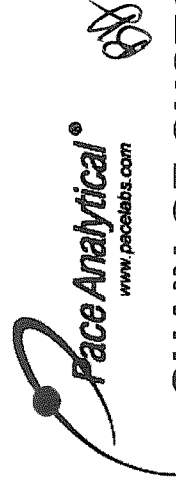
Project: 7367 HEDLAND DX

Pace Project No.: 40138889

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40138889001 | MW7       | WI MOD GRO      | 236132   |                   |                  |
| 40138889001 | MW7       | EPA 6010        | 236420   |                   |                  |
| 40138889002 | 10531     | EPA 6010        | 236420   |                   |                  |
| 40138889003 | 10561     | EPA 6010        | 236420   |                   |                  |
| 40138889002 | 10531     | EPA 524.2       | 438462   |                   |                  |
| 40138889003 | 10561     | EPA 524.2       | 438462   |                   |                  |

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# CHAIN OF CUSTODY

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

**FILTERED?  
(YES/NO)**

**PRESERVATION  
(CODE)\***

CCFA

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

| COLLECTION | DATE | TIME | MATRICES |
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[illegible]

Relinquished By: 

Relinquished By: [Signature]

Want): Walt

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| Relinquished By: |  |
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|  | Relinquished By: |  |
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Relinquished By:[illegible][illegible]

|                              |                        |                                    |                                                                               |
|------------------------------|------------------------|------------------------------------|-------------------------------------------------------------------------------|
| PACE Project No.<br>40138887 | Receipt Temp = 20.7 °C | Sample Receipt pH<br>COST Adjusted | Cooler Custody Seal<br>Present/ <del>Not Present</del><br>Intact / Not Intact |
|------------------------------|------------------------|------------------------------------|-------------------------------------------------------------------------------|

|              |            |
|--------------|------------|
|              | Date/Time: |
| Received By: |            |
|              | Date/Time: |
| Received By: |            |
|              | Date/Time: |
| Received By: |            |
|              | Date/Time: |

|                                      |                            |
|--------------------------------------|----------------------------|
| Relinquished By: <i>Robert Loman</i> | Date/Time: 7-25-96 9:15 AM |
| Relinquished By: <i>Wanda</i>        | Date/Time: 9-23-96 0900    |
| Relinquished By:                     | Date/Time:                 |
| Relinquished By:                     | Date/Time:                 |
| Relinquished By:                     | Date/Time:                 |

|                                                                                                                           |  |
|---------------------------------------------------------------------------------------------------------------------------|--|
| <b>Rush Turnaround Time Requested - Prelims</b><br><b>(Rush TAT subject to approval/surcharge)</b><br><b>Date Needed:</b> |  |
| <b>Transmit Prelim Rush Results by (complete what you want):</b>                                                          |  |
| <b>Email #1:</b>                                                                                                          |  |
| <b>Email #2:</b>                                                                                                          |  |
| <b>Telephone:</b>                                                                                                         |  |
| <b>Fax:</b>                                                                                                               |  |
| <b>Samples on HOLD are subject to<br/> special pricing and release of liability</b>                                       |  |

Client Name:

RET

Project #:

WO#: 40138889

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

Tracking #:

164965



Custody Seal on Cooler/Box Present: ☐ yes ☒ no

Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no

Seals intact: ☐ yes ☐ no

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

Thermometer Used

N/A

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature

Uncorr: ROT Corr:

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

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

Person examining contents:

Date: 9-23-16

Initials: SKW

Comments:

|                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                                                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                                                                                                                                                                               |
| Chain of Custody Relinquished:                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                                                                                                                                               |
| 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 type="checkbox"/> No <input type="checkbox"/> N/A            | 7.                                                                                                                                                                               |
| Sufficient Volume:                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Yes <input 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 | all 250 ml <sup>p</sup> received<br>1/2 empty. 9-23-16<br>SKW                                                                                                                    |
| -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 |                                                                                                                                                                                  |
| Filtered volume received for Dissolved tests                                                                                                                                                                                                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11.                                                                                                                                                                              |
| Sample Labels match COC:                                                                                                                                                                                                                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                                                                                                                                                                              |
| -Includes date/time/ID/Analysis Matrix:                                                                                                                                                                                                                        | W                                                                                                |                                                                                                                                                                                  |
| All containers needing preservation have been checked.<br>(Non-Compliance noted in 13.)                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                                                                                                                                                                              |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation.<br>(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH+ZnAct ≥ 9, NaOH ≥ 12)<br>exception: VOA, coliform, TOC, TOX, TOH,<br>O&G, WIDROW, Phenolics, OTHER: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct |
| Initial when completed                                                                                                                                                                                                                                         | SKW                                                                                              | Lab Std #ID of preservative                                                                                                                                                      |
| Headspace in VOA Vials (>6mm):                                                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14.                                                                                                                                                                              |
| Trip Blank Present:                                                                                                                                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.                                                                                                                                                                              |
| Trip Blank Custody Seals Present                                                                                                                                                                                                                               | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                                                                                                                                                                                  |
| Pace Trip Blank Lot # (if purchased):                                                                                                                                                                                                                          |                                                                                                  |                                                                                                                                                                                  |

Client Notification/ Resolution:

Person Contacted:

Date/Time:

If checked, see attached form for additional comments ☐

Comments/ Resolution:

Project Manager Review:

Date:

9-23-16

January 20, 2017

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

RE: Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

Dear DAVID LARSEN:

Enclosed are the analytical results for sample(s) received by the laboratory on January 14, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten  
brian.basten@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
Alaska Certification UST-107  
525 N 8th Street, Salina, KS 67401  
A2LA Certification #: 2926.01  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Alabama Certification #40770  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
Colorado Certification #Pace  
Connecticut Certification #: PH-0256  
EPA Region 8 Certification #: 8TMS-L  
Florida/NELAP Certification #: E87605  
Guam Certification #:14-008r  
Georgia Certification #: 959  
Georgia EPD #: Pace  
Idaho Certification #: MN00064  
Hawaii Certification #MN00064  
Illinois Certification #: 200011  
Indiana Certification#C-MN-01  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Kentucky Dept of Envi. Protection - DW #90062  
Kentucky Dept of Envi. Protection - WW #:90062  
Louisiana DEQ Certification #: 3086  
Louisiana DHH #: LA140001  
Maine Certification #: 2013011  
Maryland Certification #: 322

Michigan DEPH Certification #: 9909  
Minnesota Certification #: 027-053-137  
Mississippi Certification #: Pace  
Montana Certification #: MT0092  
Nevada Certification #: MN\_00064  
Nebraska Certification #: Pace  
New Jersey Certification #: MN-002  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Carolina State Public Health #: 27700  
North Dakota Certification #: R-036  
Ohio EPA #: 4150  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Oregon Certification #: MN300001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Saipan (CNMI) #:MP0003  
South Carolina #:74003001  
Texas Certification #: T104704192  
Tennessee Certification #: 02818  
Utah Certification #: MN000642013-4  
Virginia DGS Certification #: 251  
Virginia/VELAP Certification #: Pace  
Washington Certification #: C486  
West Virginia Certification #: 382  
West Virginia DHHR #:9952C  
Wisconsin Certification #: 999407970

### 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: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| Lab ID      | Sample ID         | Matrix | Date Collected | Date Received  |
|-------------|-------------------|--------|----------------|----------------|
| 40144491001 | MW9 @ 2-4' BLS    | Solid  | 01/12/17 16:10 | 01/14/17 08:10 |
| 40144491002 | MW10 @ 3-4' BLS   | Solid  | 01/12/17 11:13 | 01/14/17 08:10 |
| 40144491003 | MW10 @ 13-14' BLS | Solid  | 01/12/17 11:30 | 01/14/17 08:10 |
| 40144491004 | MW11 @ 2-4' BLS   | Solid  | 01/12/17 13:00 | 01/14/17 08:10 |
| 40144491005 | MW11 @ 15-16' BLS | Solid  | 01/12/17 13:35 | 01/14/17 08:10 |
| 40144491006 | MW1               | Water  | 01/11/17 15:15 | 01/14/17 08:10 |
| 40144491007 | MW3               | Water  | 01/11/17 14:45 | 01/14/17 08:10 |
| 40144491008 | MW4               | Water  | 01/11/17 15:00 | 01/14/17 08:10 |
| 40144491009 | MW5               | Water  | 01/11/17 14:30 | 01/14/17 08:10 |
| 40144491010 | MW6               | Water  | 01/11/17 16:45 | 01/14/17 08:10 |
| 40144491011 | MW7               | Water  | 01/11/17 17:30 | 01/14/17 08:10 |
| 40144491012 | MW8               | Water  | 01/12/17 09:00 | 01/14/17 08:10 |
| 40144491013 | MW9               | Water  | 01/12/17 09:50 | 01/14/17 08:10 |
| 40144491014 | MW10              | Water  | 01/12/17 12:40 | 01/14/17 08:10 |
| 40144491015 | MW11              | Water  | 01/12/17 17:15 | 01/14/17 08:10 |
| 40144491016 | BAITSHOP POTABLE  | Water  | 01/12/17 13:42 | 01/14/17 08:10 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

| Lab ID      | Sample ID         | Method        | Analysts | Analytes Reported | Laboratory |
|-------------|-------------------|---------------|----------|-------------------|------------|
| 40144491001 | MW9 @ 2-4' BLS    | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                   | EPA 6010      | DLB      | 1                 | PASI-G     |
|             |                   | ASTM D2974-87 | BTH      | 1                 | PASI-G     |
| 40144491002 | MW10 @ 3-4' BLS   | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                   | EPA 6010      | DLB      | 1                 | PASI-G     |
|             |                   | ASTM D2974-87 | BTH      | 1                 | PASI-G     |
| 40144491003 | MW10 @ 13-14' BLS | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                   | EPA 6010      | DLB      | 1                 | PASI-G     |
|             |                   | ASTM D2974-87 | BTH      | 1                 | PASI-G     |
| 40144491004 | MW11 @ 2-4' BLS   | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                   | EPA 6010      | DLB      | 1                 | PASI-G     |
|             |                   | ASTM D2974-87 | BTH      | 1                 | PASI-G     |
| 40144491005 | MW11 @ 15-16' BLS | WI MOD GRO    | ALD      | 10                | PASI-G     |
|             |                   | EPA 6010      | DLB      | 1                 | PASI-G     |
|             |                   | ASTM D2974-87 | BTH      | 1                 | PASI-G     |
| 40144491006 | MW1               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491007 | MW3               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491008 | MW4               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491009 | MW5               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491010 | MW6               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491011 | MW7               | WI MOD GRO    | ALD      | 10                | PASI-G     |
| 40144491012 | MW8               | EPA 6010      | DLB      | 2                 | PASI-G     |
|             |                   | EPA 8260      | HNW      | 64                | PASI-G     |
| 40144491013 | MW9               | EPA 6010      | DLB      | 2                 | PASI-G     |
|             |                   | EPA 8260      | HNW      | 64                | PASI-G     |
| 40144491014 | MW10              | EPA 6010      | DLB      | 2                 | PASI-G     |
|             |                   | EPA 8260      | HNW      | 64                | PASI-G     |
| 40144491015 | MW11              | EPA 6010      | DLB      | 2                 | PASI-G     |
|             |                   | EPA 8260      | HNW      | 64                | PASI-G     |
| 40144491016 | BAITSHOP POTABLE  | EPA 524.2     | PRD      | 63                | PASI-M     |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample:** MW9 @ 2-4' BLS **Lab ID:** 40144491001 **Collected:** 01/12/17 16:10 **Received:** 01/14/17 08:10 **Matrix:** Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 71-43-2     | W    |
| Ethylbenzene                                                                            | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 1634-04-4   | W    |
| Naphthalene                                                                             | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 91-20-3     | W    |
| Toluene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 108-67-8    | W    |
| m&p-Xylene                                                                              | <50.0   | ug/kg | 100    | 50.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 179601-23-1 | W    |
| o-Xylene                                                                                | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 103     | %     | 80-120 |      | 1  | 01/17/17 07:00 | 01/17/17 13:22 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 10.2    | mg/kg | 1.7    | 0.57 | 1  | 01/17/17 11:30 | 01/19/17 09:54 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 25.0    | %     | 0.10   | 0.10 | 1  |                | 01/14/17 10:46 |             |      |

**Sample:** MW10 @ 3-4' BLS **Lab ID:** 40144491002 **Collected:** 01/12/17 11:13 **Received:** 01/14/17 08:10 **Matrix:** Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 71-43-2     | W    |
| Ethylbenzene                                                                            | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                 | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 1634-04-4   | W    |
| Naphthalene                                                                             | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 91-20-3     | W    |
| Toluene                                                                                 | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 108-67-8    | W    |
| m&p-Xylene                                                                              | <66.7   | ug/kg | 133    | 66.7 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 179601-23-1 | W    |
| o-Xylene                                                                                | <33.3   | ug/kg | 66.7   | 33.3 | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 103     | %     | 80-120 |      | 1  | 01/17/17 07:00 | 01/17/17 13:48 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 14.9    | mg/kg | 1.6    | 0.53 | 1  | 01/17/17 11:30 | 01/19/17 09:56 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 23.5    | %     | 0.10   | 0.10 | 1  |                | 01/14/17 10:46 |             |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample:** MW10 @ 13-14' BLS **Lab ID:** 40144491003 **Collected:** 01/12/17 11:30 **Received:** 01/14/17 08:10 **Matrix:** Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 71-43-2     | W    |
| Ethylbenzene                                                                            | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 1634-04-4   | W    |
| Naphthalene                                                                             | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 91-20-3     | W    |
| Toluene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 108-67-8    | W    |
| m&p-Xylene                                                                              | <50.0   | ug/kg | 100    | 50.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 179601-23-1 | W    |
| o-Xylene                                                                                | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 101     | %     | 80-120 |      | 1  | 01/17/17 07:00 | 01/17/17 15:05 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 12.0    | mg/kg | 1.9    | 0.62 | 1  | 01/17/17 11:30 | 01/19/17 09:59 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 32.4    | %     | 0.10   | 0.10 | 1  |                | 01/14/17 10:46 |             |      |

**Sample:** MW11 @ 2-4' BLS **Lab ID:** 40144491004 **Collected:** 01/12/17 13:00 **Received:** 01/14/17 08:10 **Matrix:** Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 71-43-2     | W    |
| Ethylbenzene                                                                            | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 1634-04-4   | W    |
| Naphthalene                                                                             | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 91-20-3     | W    |
| Toluene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 108-67-8    | W    |
| m&p-Xylene                                                                              | <50.0   | ug/kg | 100    | 50.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 179601-23-1 | W    |
| o-Xylene                                                                                | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 101     | %     | 80-120 |      | 1  | 01/17/17 07:00 | 01/17/17 15:31 | 98-08-8     | 1q   |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 2.7     | mg/kg | 1.4    | 0.46 | 1  | 01/17/17 11:30 | 01/19/17 10:07 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 7.8     | %     | 0.10   | 0.10 | 1  |                | 01/14/17 10:46 |             |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample:** MW11 @ 15-16' BLS **Lab ID:** 40144491005 **Collected:** 01/12/17 13:35 **Received:** 01/14/17 08:10 **Matrix:** Solid

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

| Parameters                                                                              | Results | Units | LOQ    | LOD  | DF | Prepared       | Analyzed       | CAS No.     | Qual |
|-----------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext. |         |       |        |      |    |                |                |             |      |
| Benzene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 71-43-2     | W    |
| Ethylbenzene                                                                            | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 100-41-4    | W    |
| Methyl-tert-butyl ether                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 1634-04-4   | W    |
| Naphthalene                                                                             | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 91-20-3     | W    |
| Toluene                                                                                 | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 108-88-3    | W    |
| 1,2,4-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 95-63-6     | W    |
| 1,3,5-Trimethylbenzene                                                                  | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 108-67-8    | W    |
| m&p-Xylene                                                                              | <50.0   | ug/kg | 100    | 50.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 179601-23-1 | W    |
| o-Xylene                                                                                | <25.0   | ug/kg | 50.0   | 25.0 | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 95-47-6     | W    |
| <b>Surrogates</b>                                                                       |         |       |        |      |    |                |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                              | 102     | %     | 80-120 |      | 1  | 01/17/17 07:00 | 01/17/17 15:57 | 98-08-8     |      |
| <b>6010 MET ICP</b> Analytical Method: EPA 6010 Preparation Method: EPA 3050            |         |       |        |      |    |                |                |             |      |
| Lead                                                                                    | 14.4    | mg/kg | 1.7    | 0.56 | 1  | 01/17/17 11:30 | 01/19/17 10:09 | 7439-92-1   |      |
| <b>Percent Moisture</b> Analytical Method: ASTM D2974-87                                |         |       |        |      |    |                |                |             |      |
| Percent Moisture                                                                        | 32.2    | %     | 0.10   | 0.10 | 1  |                | 01/14/17 10:46 |             |      |

**Sample:** MW1 **Lab ID:** 40144491006 **Collected:** 01/11/17 15:15 **Received:** 01/14/17 08:10 **Matrix:** Water

| Parameters                                     | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|------------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO |         |       |        |      |    |          |                |             |      |
| Benzene                                        | <0.40   | ug/L  | 1.0    | 0.40 | 1  |          | 01/16/17 10:53 | 71-43-2     |      |
| Ethylbenzene                                   | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 01/16/17 10:53 | 100-41-4    |      |
| Methyl-tert-butyl ether                        | <0.48   | ug/L  | 1.0    | 0.48 | 1  |          | 01/16/17 10:53 | 1634-04-4   |      |
| Naphthalene                                    | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 10:53 | 91-20-3     |      |
| Toluene                                        | <0.39   | ug/L  | 1.0    | 0.39 | 1  |          | 01/16/17 10:53 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                         | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 10:53 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                         | <0.42   | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 10:53 | 108-67-8    |      |
| m&p-Xylene                                     | <0.80   | ug/L  | 2.0    | 0.80 | 1  |          | 01/16/17 10:53 | 179601-23-1 |      |
| o-Xylene                                       | <0.45   | ug/L  | 1.0    | 0.45 | 1  |          | 01/16/17 10:53 | 95-47-6     |      |
| <b>Surrogates</b>                              |         |       |        |      |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                     | 103     | %     | 80-120 |      | 1  |          | 01/16/17 10:53 | 98-08-8     |      |

**Sample:** MW3 **Lab ID:** 40144491007 **Collected:** 01/11/17 14:45 **Received:** 01/14/17 08:10 **Matrix:** Water

| Parameters                                     | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No. | Qual |
|------------------------------------------------|---------|-------|-----|------|----|----------|----------------|---------|------|
| <b>WIGRO GCV</b> Analytical Method: WI MOD GRO |         |       |     |      |    |          |                |         |      |
| Benzene                                        | 44.6    | ug/L  | 1.0 | 0.40 | 1  |          | 01/16/17 14:45 | 71-43-2 |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

| Sample: MW3 Lab ID: 40144491007 Collected: 01/11/17 14:45 Received: 01/14/17 08:10 Matrix: Water |         |       |        |      |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
| WIGRO GCV Analytical Method: WI MOD GRO                                                          |         |       |        |      |    |          |                |             |      |
| Ethylbenzene                                                                                     | 12.3    | ug/L  | 1.0    | 0.39 | 1  |          | 01/16/17 14:45 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                          | 1.0     | ug/L  | 1.0    | 0.48 | 1  |          | 01/16/17 14:45 | 1634-04-4   |      |
| Naphthalene                                                                                      | 5.0     | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 14:45 | 91-20-3     |      |
| Toluene                                                                                          | 0.79J   | ug/L  | 1.0    | 0.39 | 1  |          | 01/16/17 14:45 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | 6.4     | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 14:45 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | 5.6     | ug/L  | 1.0    | 0.42 | 1  |          | 01/16/17 14:45 | 108-67-8    |      |
| m&p-Xylene                                                                                       | 13.4    | ug/L  | 2.0    | 0.80 | 1  |          | 01/16/17 14:45 | 179601-23-1 |      |
| o-Xylene                                                                                         | 1.0     | ug/L  | 1.0    | 0.45 | 1  |          | 01/16/17 14:45 | 95-47-6     |      |
| Surrogates                                                                                       |         |       |        |      |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                       | 114     | %     | 80-120 |      | 1  |          | 01/16/17 14:45 | 98-08-8     |      |

| Sample: MW4 Lab ID: 40144491008 Collected: 01/11/17 15:00 Received: 01/14/17 08:10 Matrix: Water |         |       |        |     |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|-----|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.     | Qual |
| WIGRO GCV Analytical Method: WI MOD GRO                                                          |         |       |        |     |    |          |                |             |      |
| Benzene                                                                                          | 659     | ug/L  | 10.0   | 4.0 | 10 |          | 01/16/17 15:37 | 71-43-2     |      |
| Ethylbenzene                                                                                     | 146     | ug/L  | 10.0   | 3.9 | 10 |          | 01/16/17 15:37 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                          | <4.8    | ug/L  | 10.0   | 4.8 | 10 |          | 01/16/17 15:37 | 1634-04-4   |      |
| Naphthalene                                                                                      | 13.9    | ug/L  | 10.0   | 4.2 | 10 |          | 01/16/17 15:37 | 91-20-3     |      |
| Toluene                                                                                          | 18.7    | ug/L  | 10.0   | 3.9 | 10 |          | 01/16/17 15:37 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | 36.9    | ug/L  | 10.0   | 4.2 | 10 |          | 01/16/17 15:37 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | 12.4    | ug/L  | 10.0   | 4.2 | 10 |          | 01/16/17 15:37 | 108-67-8    |      |
| m&p-Xylene                                                                                       | 160     | ug/L  | 20.0   | 8.0 | 10 |          | 01/16/17 15:37 | 179601-23-1 |      |
| o-Xylene                                                                                         | 5.2J    | ug/L  | 10.0   | 4.5 | 10 |          | 01/16/17 15:37 | 95-47-6     |      |
| Surrogates                                                                                       |         |       |        |     |    |          |                |             |      |
| a,a,a-Trifluorotoluene (S)                                                                       | 105     | %     | 80-120 |     | 10 |          | 01/16/17 15:37 | 98-08-8     |      |

| Sample: MW5 Lab ID: 40144491009 Collected: 01/11/17 14:30 Received: 01/14/17 08:10 Matrix: Water |         |       |     |      |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|-----|------|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
| WIGRO GCV Analytical Method: WI MOD GRO                                                          |         |       |     |      |    |          |                |             |      |
| Benzene                                                                                          | 77.9    | ug/L  | 1.0 | 0.40 | 1  |          | 01/17/17 09:03 | 71-43-2     |      |
| Ethylbenzene                                                                                     | 65.1    | ug/L  | 1.0 | 0.39 | 1  |          | 01/17/17 09:03 | 100-41-4    |      |
| Methyl-tert-butyl ether                                                                          | 1.3     | ug/L  | 1.0 | 0.48 | 1  |          | 01/17/17 09:03 | 1634-04-4   |      |
| Naphthalene                                                                                      | 10.6    | ug/L  | 1.0 | 0.42 | 1  |          | 01/17/17 09:03 | 91-20-3     |      |
| Toluene                                                                                          | 11.7    | ug/L  | 1.0 | 0.39 | 1  |          | 01/17/17 09:03 | 108-88-3    |      |
| 1,2,4-Trimethylbenzene                                                                           | 26.6    | ug/L  | 1.0 | 0.42 | 1  |          | 01/17/17 09:03 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                           | 7.2     | ug/L  | 1.0 | 0.42 | 1  |          | 01/17/17 09:03 | 108-67-8    |      |
| m&p-Xylene                                                                                       | 100     | ug/L  | 2.0 | 0.80 | 1  |          | 01/17/17 09:03 | 179601-23-1 |      |
| o-Xylene                                                                                         | 2.0     | ug/L  | 1.0 | 0.45 | 1  |          | 01/17/17 09:03 | 95-47-6     |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

| <b>Sample: MW5</b>         |         | <b>Lab ID: 40144491009</b>    |        | Collected: 01/11/17 14:30 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|----------------------------|---------|-------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                         | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>WIGRO GCV</b>           |         | Analytical Method: WI MOD GRO |        |                           |    |                          |                |               |      |
| <b>Surrogates</b>          |         |                               |        |                           |    |                          |                |               |      |
| a,a,a-Trifluorotoluene (S) | 103     | %                             | 80-120 |                           | 1  |                          | 01/17/17 09:03 | 98-08-8       |      |

| <b>Sample: MW6</b>         |         | <b>Lab ID: 40144491010</b>    |        | Collected: 01/11/17 16:45 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|----------------------------|---------|-------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                         | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>WIGRO GCV</b>           |         | Analytical Method: WI MOD GRO |        |                           |    |                          |                |               |      |
| Benzene                    | 23.1    | ug/L                          | 1.0    | 0.40                      | 1  |                          | 01/16/17 09:57 | 71-43-2       |      |
| Ethylbenzene               | 3.9     | ug/L                          | 1.0    | 0.39                      | 1  |                          | 01/16/17 09:57 | 100-41-4      |      |
| Methyl-tert-butyl ether    | <0.48   | ug/L                          | 1.0    | 0.48                      | 1  |                          | 01/16/17 09:57 | 1634-04-4     |      |
| Naphthalene                | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 09:57 | 91-20-3       |      |
| Toluene                    | <0.39   | ug/L                          | 1.0    | 0.39                      | 1  |                          | 01/16/17 09:57 | 108-88-3      |      |
| 1,2,4-Trimethylbenzene     | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 09:57 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene     | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 09:57 | 108-67-8      |      |
| m&p-Xylene                 | <0.80   | ug/L                          | 2.0    | 0.80                      | 1  |                          | 01/16/17 09:57 | 179601-23-1   |      |
| o-Xylene                   | <0.45   | ug/L                          | 1.0    | 0.45                      | 1  |                          | 01/16/17 09:57 | 95-47-6       |      |
| <b>Surrogates</b>          |         |                               |        |                           |    |                          |                |               |      |
| a,a,a-Trifluorotoluene (S) | 99      | %                             | 80-120 |                           | 1  |                          | 01/16/17 09:57 | 98-08-8       | HS   |

| <b>Sample: MW7</b>         |         | <b>Lab ID: 40144491011</b>    |        | Collected: 01/11/17 17:30 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|----------------------------|---------|-------------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                 | Results | Units                         | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>WIGRO GCV</b>           |         | Analytical Method: WI MOD GRO |        |                           |    |                          |                |               |      |
| Benzene                    | <0.40   | ug/L                          | 1.0    | 0.40                      | 1  |                          | 01/16/17 11:19 | 71-43-2       |      |
| Ethylbenzene               | <0.39   | ug/L                          | 1.0    | 0.39                      | 1  |                          | 01/16/17 11:19 | 100-41-4      |      |
| Methyl-tert-butyl ether    | <0.48   | ug/L                          | 1.0    | 0.48                      | 1  |                          | 01/16/17 11:19 | 1634-04-4     |      |
| Naphthalene                | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 11:19 | 91-20-3       |      |
| Toluene                    | <0.39   | ug/L                          | 1.0    | 0.39                      | 1  |                          | 01/16/17 11:19 | 108-88-3      |      |
| 1,2,4-Trimethylbenzene     | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 11:19 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene     | <0.42   | ug/L                          | 1.0    | 0.42                      | 1  |                          | 01/16/17 11:19 | 108-67-8      |      |
| m&p-Xylene                 | <0.80   | ug/L                          | 2.0    | 0.80                      | 1  |                          | 01/16/17 11:19 | 179601-23-1   |      |
| o-Xylene                   | <0.45   | ug/L                          | 1.0    | 0.45                      | 1  |                          | 01/16/17 11:19 | 95-47-6       |      |
| <b>Surrogates</b>          |         |                               |        |                           |    |                          |                |               |      |
| a,a,a-Trifluorotoluene (S) | 103     | %                             | 80-120 |                           | 1  |                          | 01/16/17 11:19 | 98-08-8       |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample: MW8**      **Lab ID: 40144491012**      Collected: 01/12/17 09:00      Received: 01/14/17 08:10      Matrix: Water

| Parameters                     | Results     | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|-------------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b> |             | Analytical Method: EPA 6010 |     |      |    |          |                |            |      |
| Iron, Dissolved                | <b>4670</b> | ug/L                        | 100 | 15.5 | 1  |          | 01/19/17 12:08 | 7439-89-6  |      |
| Manganese, Dissolved           | <b>1190</b> | ug/L                        | 5.0 | 1.1  | 1  |          | 01/19/17 12:08 | 7439-96-5  |      |
| <b>8260 MSV</b>                |             | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                        | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 71-43-2    |      |
| Bromobenzene                   | <0.23       | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:27 | 108-86-1   |      |
| Bromochloromethane             | <0.34       | ug/L                        | 1.0 | 0.34 | 1  |          | 01/16/17 13:27 | 74-97-5    |      |
| Bromodichloromethane           | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 75-27-4    |      |
| Bromoform                      | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 75-25-2    |      |
| Bromomethane                   | <2.4        | ug/L                        | 5.0 | 2.4  | 1  |          | 01/16/17 13:27 | 74-83-9    |      |
| n-Butylbenzene                 | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 104-51-8   |      |
| sec-Butylbenzene               | <2.2        | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 13:27 | 135-98-8   |      |
| tert-Butylbenzene              | <0.18       | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 13:27 | 98-06-6    |      |
| Carbon tetrachloride           | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 56-23-5    |      |
| Chlorobenzene                  | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 108-90-7   |      |
| Chloroethane                   | <0.37       | ug/L                        | 1.0 | 0.37 | 1  |          | 01/16/17 13:27 | 75-00-3    |      |
| Chloroform                     | <2.5        | ug/L                        | 5.0 | 2.5  | 1  |          | 01/16/17 13:27 | 67-66-3    |      |
| Chloromethane                  | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 74-87-3    |      |
| 2-Chlorotoluene                | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 95-49-8    |      |
| 4-Chlorotoluene                | <0.21       | ug/L                        | 1.0 | 0.21 | 1  |          | 01/16/17 13:27 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane    | <2.2        | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 13:27 | 96-12-8    |      |
| Dibromochloromethane           | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <0.18       | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 13:27 | 106-93-4   |      |
| Dibromomethane                 | <0.43       | ug/L                        | 1.0 | 0.43 | 1  |          | 01/16/17 13:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 106-46-7   |      |
| Dichlorodifluoromethane        | <0.22       | ug/L                        | 1.0 | 0.22 | 1  |          | 01/16/17 13:27 | 75-71-8    |      |
| 1,1-Dichloroethane             | <0.24       | ug/L                        | 1.0 | 0.24 | 1  |          | 01/16/17 13:27 | 75-34-3    |      |
| 1,2-Dichloroethane             | <0.17       | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 13:27 | 107-06-2   |      |
| 1,1-Dichloroethene             | <0.41       | ug/L                        | 1.0 | 0.41 | 1  |          | 01/16/17 13:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <0.26       | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 13:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <0.26       | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 13:27 | 156-60-5   |      |
| 1,2-Dichloropropane            | <0.23       | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:27 | 78-87-5    |      |
| 1,3-Dichloropropane            | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 142-28-9   |      |
| 2,2-Dichloropropane            | <0.48       | ug/L                        | 1.0 | 0.48 | 1  |          | 01/16/17 13:27 | 594-20-7   |      |
| 1,1-Dichloropropene            | <0.44       | ug/L                        | 1.0 | 0.44 | 1  |          | 01/16/17 13:27 | 563-58-6   |      |
| cis-1,3-Dichloropropene        | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <0.23       | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:27 | 10061-02-6 |      |
| Diisopropyl ether              | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 108-20-3   |      |
| Ethylbenzene                   | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 100-41-4   |      |
| Hexachloro-1,3-butadiene       | <2.1        | ug/L                        | 5.0 | 2.1  | 1  |          | 01/16/17 13:27 | 87-68-3    |      |
| Isopropylbenzene (Cumene)      | <0.14       | ug/L                        | 1.0 | 0.14 | 1  |          | 01/16/17 13:27 | 98-82-8    |      |
| p-Isopropyltoluene             | <0.50       | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:27 | 99-87-6    |      |
| Methylene Chloride             | <0.23       | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:27 | 75-09-2    |      |
| Methyl-tert-butyl ether        | <0.17       | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 13:27 | 1634-04-4  |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

| Sample: MW8               |         | Lab ID: 40144491012         |        | Collected: 01/12/17 09:00 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|---------------------------|---------|-----------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                | Results | Units                       | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 8260 |        |                           |    |                          |                |               |      |
| Naphthalene               | <2.5    | ug/L                        | 5.0    | 2.5                       | 1  |                          | 01/16/17 13:27 | 91-20-3       |      |
| n-Propylbenzene           | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 103-65-1      |      |
| Styrene                   | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 100-42-5      |      |
| 1,1,1,2-Tetrachloroethane | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 13:27 | 630-20-6      |      |
| 1,1,2,2-Tetrachloroethane | <0.25   | ug/L                        | 1.0    | 0.25                      | 1  |                          | 01/16/17 13:27 | 79-34-5       |      |
| Tetrachloroethene         | 0.75J   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 127-18-4      |      |
| Toluene                   | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 108-88-3      |      |
| 1,2,3-Trichlorobenzene    | <2.1    | ug/L                        | 5.0    | 2.1                       | 1  |                          | 01/16/17 13:27 | 87-61-6       |      |
| 1,2,4-Trichlorobenzene    | <2.2    | ug/L                        | 5.0    | 2.2                       | 1  |                          | 01/16/17 13:27 | 120-82-1      |      |
| 1,1,1-Trichloroethane     | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 71-55-6       | L3   |
| 1,1,2-Trichloroethane     | <0.20   | ug/L                        | 1.0    | 0.20                      | 1  |                          | 01/16/17 13:27 | 79-00-5       |      |
| Trichloroethene           | <0.33   | ug/L                        | 1.0    | 0.33                      | 1  |                          | 01/16/17 13:27 | 79-01-6       |      |
| Trichlorofluoromethane    | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 13:27 | 75-69-4       |      |
| 1,2,3-Trichloropropane    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 96-18-4       |      |
| 1,2,4-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 108-67-8      |      |
| Vinyl chloride            | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 13:27 | 75-01-4       |      |
| m&p-Xylene                | <1.0    | ug/L                        | 2.0    | 1.0                       | 1  |                          | 01/16/17 13:27 | 179601-23-1   |      |
| o-Xylene                  | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 13:27 | 95-47-6       |      |
| <b>Surrogates</b>         |         |                             |        |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)  | 98      | %                           | 70-130 |                           | 1  |                          | 01/16/17 13:27 | 460-00-4      |      |
| Dibromofluoromethane (S)  | 95      | %                           | 70-130 |                           | 1  |                          | 01/16/17 13:27 | 1868-53-7     |      |
| Toluene-d8 (S)            | 104     | %                           | 70-130 |                           | 1  |                          | 01/16/17 13:27 | 2037-26-5     |      |

| Sample: MW9                    |         | Lab ID: 40144491013         |     | Collected: 01/12/17 09:50 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|--------------------------------|---------|-----------------------------|-----|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                     | Results | Units                       | LOQ | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>6010 MET ICP, Dissolved</b> |         | Analytical Method: EPA 6010 |     |                           |    |                          |                |               |      |
| Iron, Dissolved                | 2370    | ug/L                        | 100 | 15.5                      | 1  |                          | 01/19/17 12:10 | 7439-89-6     |      |
| Manganese, Dissolved           | 394     | ug/L                        | 5.0 | 1.1                       | 1  |                          | 01/19/17 12:10 | 7439-96-5     |      |
| <b>8260 MSV</b>                |         | Analytical Method: EPA 8260 |     |                           |    |                          |                |               |      |
| Benzene                        | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 71-43-2       |      |
| Bromobenzene                   | <0.23   | ug/L                        | 1.0 | 0.23                      | 1  |                          | 01/16/17 13:50 | 108-86-1      |      |
| Bromochloromethane             | <0.34   | ug/L                        | 1.0 | 0.34                      | 1  |                          | 01/16/17 13:50 | 74-97-5       |      |
| Bromodichloromethane           | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 75-27-4       |      |
| Bromoform                      | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 75-25-2       |      |
| Bromomethane                   | <2.4    | ug/L                        | 5.0 | 2.4                       | 1  |                          | 01/16/17 13:50 | 74-83-9       |      |
| n-Butylbenzene                 | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 104-51-8      |      |
| sec-Butylbenzene               | <2.2    | ug/L                        | 5.0 | 2.2                       | 1  |                          | 01/16/17 13:50 | 135-98-8      |      |
| tert-Butylbenzene              | <0.18   | ug/L                        | 1.0 | 0.18                      | 1  |                          | 01/16/17 13:50 | 98-06-6       |      |
| Carbon tetrachloride           | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 56-23-5       |      |
| Chlorobenzene                  | <0.50   | ug/L                        | 1.0 | 0.50                      | 1  |                          | 01/16/17 13:50 | 108-90-7      |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample: MW9**      **Lab ID: 40144491013**      Collected: 01/12/17 09:50      Received: 01/14/17 08:10      Matrix: Water

| Parameters                  | Results | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Chloroethane                | <0.37   | ug/L                        | 1.0 | 0.37 | 1  |          | 01/16/17 13:50 | 75-00-3    |      |
| Chloroform                  | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 01/16/17 13:50 | 67-66-3    |      |
| Chloromethane               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 74-87-3    |      |
| 2-Chlorotoluene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 95-49-8    |      |
| 4-Chlorotoluene             | <0.21   | ug/L                        | 1.0 | 0.21 | 1  |          | 01/16/17 13:50 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 13:50 | 96-12-8    |      |
| Dibromochloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 13:50 | 106-93-4   |      |
| Dibromomethane              | <0.43   | ug/L                        | 1.0 | 0.43 | 1  |          | 01/16/17 13:50 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 106-46-7   |      |
| Dichlorodifluoromethane     | <0.22   | ug/L                        | 1.0 | 0.22 | 1  |          | 01/16/17 13:50 | 75-71-8    |      |
| 1,1-Dichloroethane          | <0.24   | ug/L                        | 1.0 | 0.24 | 1  |          | 01/16/17 13:50 | 75-34-3    |      |
| 1,2-Dichloroethane          | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 13:50 | 107-06-2   |      |
| 1,1-Dichloroethene          | <0.41   | ug/L                        | 1.0 | 0.41 | 1  |          | 01/16/17 13:50 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 13:50 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 13:50 | 156-60-5   |      |
| 1,2-Dichloropropane         | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:50 | 78-87-5    |      |
| 1,3-Dichloropropane         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 142-28-9   |      |
| 2,2-Dichloropropane         | <0.48   | ug/L                        | 1.0 | 0.48 | 1  |          | 01/16/17 13:50 | 594-20-7   |      |
| 1,1-Dichloropropene         | <0.44   | ug/L                        | 1.0 | 0.44 | 1  |          | 01/16/17 13:50 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:50 | 10061-02-6 |      |
| Diisopropyl ether           | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 108-20-3   |      |
| Ethylbenzene                | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 01/16/17 13:50 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <0.14   | ug/L                        | 1.0 | 0.14 | 1  |          | 01/16/17 13:50 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 99-87-6    |      |
| Methylene Chloride          | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 13:50 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 13:50 | 1634-04-4  |      |
| Naphthalene                 | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 01/16/17 13:50 | 91-20-3    |      |
| n-Propylbenzene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 103-65-1   |      |
| Styrene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 13:50 | 630-20-6   |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L                        | 1.0 | 0.25 | 1  |          | 01/16/17 13:50 | 79-34-5    |      |
| Tetrachloroethene           | 1.2     | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 127-18-4   |      |
| Toluene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 108-88-3   |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 01/16/17 13:50 | 87-61-6    |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 13:50 | 120-82-1   |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 71-55-6    | L3   |
| 1,1,2-Trichloroethane       | <0.20   | ug/L                        | 1.0 | 0.20 | 1  |          | 01/16/17 13:50 | 79-00-5    |      |
| Trichloroethene             | <0.33   | ug/L                        | 1.0 | 0.33 | 1  |          | 01/16/17 13:50 | 79-01-6    |      |
| Trichlorofluoromethane      | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 13:50 | 75-69-4    |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 96-18-4    |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 13:50 | 95-63-6    |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| Sample: MW9 Lab ID: 40144491013 Collected: 01/12/17 09:50 Received: 01/14/17 08:10 Matrix: Water |         |       |        |      |    |          |                |             |      |
|--------------------------------------------------------------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| Parameters                                                                                       | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
| <b>8260 MSV</b> Analytical Method: EPA 8260                                                      |         |       |        |      |    |          |                |             |      |
| 1,3,5-Trimethylbenzene                                                                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 13:50 | 108-67-8    |      |
| Vinyl chloride                                                                                   | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 01/16/17 13:50 | 75-01-4     |      |
| m&p-Xylene                                                                                       | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 01/16/17 13:50 | 179601-23-1 |      |
| o-Xylene                                                                                         | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 13:50 | 95-47-6     |      |
| <b>Surrogates</b>                                                                                |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                                                                         | 98      | %     | 70-130 |      | 1  |          | 01/16/17 13:50 | 460-00-4    |      |
| Dibromofluoromethane (S)                                                                         | 95      | %     | 70-130 |      | 1  |          | 01/16/17 13:50 | 1868-53-7   |      |
| Toluene-d8 (S)                                                                                   | 104     | %     | 70-130 |      | 1  |          | 01/16/17 13:50 | 2037-26-5   |      |

| Sample: MW10 Lab ID: 40144491014 Collected: 01/12/17 12:40 Received: 01/14/17 08:10 Matrix: Water |         |       |     |      |    |          |                |           |      |
|---------------------------------------------------------------------------------------------------|---------|-------|-----|------|----|----------|----------------|-----------|------|
| Parameters                                                                                        | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.   | Qual |
| <b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010                                        |         |       |     |      |    |          |                |           |      |
| Iron, Dissolved                                                                                   | 1560    | ug/L  | 100 | 15.5 | 1  |          | 01/19/17 12:12 | 7439-89-6 |      |
| Manganese, Dissolved                                                                              | 284     | ug/L  | 5.0 | 1.1  | 1  |          | 01/19/17 12:12 | 7439-96-5 |      |
| <b>8260 MSV</b> Analytical Method: EPA 8260                                                       |         |       |     |      |    |          |                |           |      |
| Benzene                                                                                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 71-43-2   |      |
| Bromobenzene                                                                                      | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 01/16/17 14:12 | 108-86-1  |      |
| Bromochloromethane                                                                                | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 01/16/17 14:12 | 74-97-5   |      |
| Bromodichloromethane                                                                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 75-27-4   |      |
| Bromoform                                                                                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 75-25-2   |      |
| Bromomethane                                                                                      | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 01/16/17 14:12 | 74-83-9   |      |
| n-Butylbenzene                                                                                    | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 104-51-8  |      |
| sec-Butylbenzene                                                                                  | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 01/16/17 14:12 | 135-98-8  |      |
| tert-Butylbenzene                                                                                 | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 01/16/17 14:12 | 98-06-6   |      |
| Carbon tetrachloride                                                                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 56-23-5   |      |
| Chlorobenzene                                                                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 108-90-7  |      |
| Chloroethane                                                                                      | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 01/16/17 14:12 | 75-00-3   |      |
| Chloroform                                                                                        | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 01/16/17 14:12 | 67-66-3   |      |
| Chloromethane                                                                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 74-87-3   |      |
| 2-Chlorotoluene                                                                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 95-49-8   |      |
| 4-Chlorotoluene                                                                                   | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 01/16/17 14:12 | 106-43-4  |      |
| 1,2-Dibromo-3-chloropropane                                                                       | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 01/16/17 14:12 | 96-12-8   |      |
| Dibromochloromethane                                                                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 124-48-1  |      |
| 1,2-Dibromoethane (EDB)                                                                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 01/16/17 14:12 | 106-93-4  |      |
| Dibromomethane                                                                                    | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 01/16/17 14:12 | 74-95-3   |      |
| 1,2-Dichlorobenzene                                                                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 95-50-1   |      |
| 1,3-Dichlorobenzene                                                                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 541-73-1  |      |
| 1,4-Dichlorobenzene                                                                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 01/16/17 14:12 | 106-46-7  |      |
| Dichlorodifluoromethane                                                                           | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 01/16/17 14:12 | 75-71-8   |      |
| 1,1-Dichloroethane                                                                                | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 01/16/17 14:12 | 75-34-3   |      |
| 1,2-Dichloroethane                                                                                | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 01/16/17 14:12 | 107-06-2  |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

**Sample: MW10**      **Lab ID: 40144491014**      Collected: 01/12/17 12:40      Received: 01/14/17 08:10      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---------------------------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0    | 0.41 | 1  |          | 01/16/17 14:12 | 75-35-4     |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 01/16/17 14:12 | 156-59-2    |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0    | 0.26 | 1  |          | 01/16/17 14:12 | 156-60-5    |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0    | 0.23 | 1  |          | 01/16/17 14:12 | 78-87-5     |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 142-28-9    |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0    | 0.48 | 1  |          | 01/16/17 14:12 | 594-20-7    |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0    | 0.44 | 1  |          | 01/16/17 14:12 | 563-58-6    |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 10061-01-5  |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0    | 0.23 | 1  |          | 01/16/17 14:12 | 10061-02-6  |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 108-20-3    |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 100-41-4    |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 01/16/17 14:12 | 87-68-3     |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0    | 0.14 | 1  |          | 01/16/17 14:12 | 98-82-8     |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 99-87-6     |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0    | 0.23 | 1  |          | 01/16/17 14:12 | 75-09-2     |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0    | 0.17 | 1  |          | 01/16/17 14:12 | 1634-04-4   |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0    | 2.5  | 1  |          | 01/16/17 14:12 | 91-20-3     |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 103-65-1    |      |
| Styrene                                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 01/16/17 14:12 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane                   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 01/16/17 14:12 | 79-34-5     |      |
| Tetrachloroethene                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 127-18-4    |      |
| Toluene                                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 01/16/17 14:12 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 01/16/17 14:12 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 71-55-6     | L3   |
| 1,1,2-Trichloroethane                       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 01/16/17 14:12 | 79-00-5     |      |
| Trichloroethene                             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 01/16/17 14:12 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 01/16/17 14:12 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 108-67-8    |      |
| Vinyl chloride                              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 01/16/17 14:12 | 75-01-4     |      |
| m&p-Xylene                                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 01/16/17 14:12 | 179601-23-1 |      |
| o-Xylene                                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 01/16/17 14:12 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 98      | %     | 70-130 |      | 1  |          | 01/16/17 14:12 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 94      | %     | 70-130 |      | 1  |          | 01/16/17 14:12 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 104     | %     | 70-130 |      | 1  |          | 01/16/17 14:12 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

**Sample: MW11**      **Lab ID: 40144491015**      Collected: 01/12/17 17:15      Received: 01/14/17 08:10      Matrix: Water

| Parameters                     | Results         | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|--------------------------------|-----------------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>6010 MET ICP, Dissolved</b> |                 | Analytical Method: EPA 6010 |     |      |    |          |                |            |      |
| Iron, Dissolved                | <b>468</b>      | ug/L                        | 100 | 15.5 | 1  |          | 01/19/17 12:14 | 7439-89-6  |      |
| Manganese, Dissolved           | <b>292</b>      | ug/L                        | 5.0 | 1.1  | 1  |          | 01/19/17 12:14 | 7439-96-5  |      |
| <b>8260 MSV</b>                |                 | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                        | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 71-43-2    |      |
| Bromobenzene                   | <b>&lt;0.23</b> | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 14:34 | 108-86-1   |      |
| Bromochloromethane             | <b>&lt;0.34</b> | ug/L                        | 1.0 | 0.34 | 1  |          | 01/16/17 14:34 | 74-97-5    |      |
| Bromodichloromethane           | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 75-27-4    |      |
| Bromoform                      | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 75-25-2    |      |
| Bromomethane                   | <b>&lt;2.4</b>  | ug/L                        | 5.0 | 2.4  | 1  |          | 01/16/17 14:34 | 74-83-9    |      |
| n-Butylbenzene                 | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 104-51-8   |      |
| sec-Butylbenzene               | <b>&lt;2.2</b>  | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 14:34 | 135-98-8   |      |
| tert-Butylbenzene              | <b>&lt;0.18</b> | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 14:34 | 98-06-6    |      |
| Carbon tetrachloride           | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 56-23-5    |      |
| Chlorobenzene                  | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 108-90-7   |      |
| Chloroethane                   | <b>&lt;0.37</b> | ug/L                        | 1.0 | 0.37 | 1  |          | 01/16/17 14:34 | 75-00-3    |      |
| Chloroform                     | <b>&lt;2.5</b>  | ug/L                        | 5.0 | 2.5  | 1  |          | 01/16/17 14:34 | 67-66-3    |      |
| Chloromethane                  | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 74-87-3    |      |
| 2-Chlorotoluene                | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 95-49-8    |      |
| 4-Chlorotoluene                | <b>&lt;0.21</b> | ug/L                        | 1.0 | 0.21 | 1  |          | 01/16/17 14:34 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane    | <b>&lt;2.2</b>  | ug/L                        | 5.0 | 2.2  | 1  |          | 01/16/17 14:34 | 96-12-8    |      |
| Dibromochloromethane           | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)        | <b>&lt;0.18</b> | ug/L                        | 1.0 | 0.18 | 1  |          | 01/16/17 14:34 | 106-93-4   |      |
| Dibromomethane                 | <b>&lt;0.43</b> | ug/L                        | 1.0 | 0.43 | 1  |          | 01/16/17 14:34 | 74-95-3    |      |
| 1,2-Dichlorobenzene            | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 95-50-1    |      |
| 1,3-Dichlorobenzene            | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 541-73-1   |      |
| 1,4-Dichlorobenzene            | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 106-46-7   |      |
| Dichlorodifluoromethane        | <b>&lt;0.22</b> | ug/L                        | 1.0 | 0.22 | 1  |          | 01/16/17 14:34 | 75-71-8    |      |
| 1,1-Dichloroethane             | <b>&lt;0.24</b> | ug/L                        | 1.0 | 0.24 | 1  |          | 01/16/17 14:34 | 75-34-3    |      |
| 1,2-Dichloroethane             | <b>&lt;0.17</b> | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 14:34 | 107-06-2   |      |
| 1,1-Dichloroethene             | <b>&lt;0.41</b> | ug/L                        | 1.0 | 0.41 | 1  |          | 01/16/17 14:34 | 75-35-4    |      |
| cis-1,2-Dichloroethene         | <b>&lt;0.26</b> | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 14:34 | 156-59-2   |      |
| trans-1,2-Dichloroethene       | <b>&lt;0.26</b> | ug/L                        | 1.0 | 0.26 | 1  |          | 01/16/17 14:34 | 156-60-5   |      |
| 1,2-Dichloropropane            | <b>&lt;0.23</b> | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 14:34 | 78-87-5    |      |
| 1,3-Dichloropropane            | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 142-28-9   |      |
| 2,2-Dichloropropane            | <b>&lt;0.48</b> | ug/L                        | 1.0 | 0.48 | 1  |          | 01/16/17 14:34 | 594-20-7   |      |
| 1,1-Dichloropropene            | <b>&lt;0.44</b> | ug/L                        | 1.0 | 0.44 | 1  |          | 01/16/17 14:34 | 563-58-6   |      |
| cis-1,3-Dichloropropene        | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 10061-01-5 |      |
| trans-1,3-Dichloropropene      | <b>&lt;0.23</b> | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 14:34 | 10061-02-6 |      |
| Diisopropyl ether              | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 108-20-3   |      |
| Ethylbenzene                   | <b>&lt;0.50</b> | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 100-41-4   |      |
| Hexachloro-1,3-butadiene       | <b>&lt;2.1</b>  | ug/L                        | 5.0 | 2.1  | 1  |          | 01/16/17 14:34 | 87-68-3    |      |
| Isopropylbenzene (Cumene)      | <b>&lt;0.14</b> | ug/L                        | 1.0 | 0.14 | 1  |          | 01/16/17 14:34 | 98-82-8    |      |
| p-Isopropyltoluene             | <b>0.66J</b>    | ug/L                        | 1.0 | 0.50 | 1  |          | 01/16/17 14:34 | 99-87-6    |      |
| Methylene Chloride             | <b>&lt;0.23</b> | ug/L                        | 1.0 | 0.23 | 1  |          | 01/16/17 14:34 | 75-09-2    |      |
| Methyl-tert-butyl ether        | <b>&lt;0.17</b> | ug/L                        | 1.0 | 0.17 | 1  |          | 01/16/17 14:34 | 1634-04-4  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| Sample: MW11              |         | Lab ID: 40144491015         |        | Collected: 01/12/17 17:15 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|---------------------------|---------|-----------------------------|--------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters                | Results | Units                       | LOQ    | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>8260 MSV</b>           |         | Analytical Method: EPA 8260 |        |                           |    |                          |                |               |      |
| Naphthalene               | <2.5    | ug/L                        | 5.0    | 2.5                       | 1  |                          | 01/16/17 14:34 | 91-20-3       |      |
| n-Propylbenzene           | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 103-65-1      |      |
| Styrene                   | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 100-42-5      |      |
| 1,1,1,2-Tetrachloroethane | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 14:34 | 630-20-6      |      |
| 1,1,2,2-Tetrachloroethane | <0.25   | ug/L                        | 1.0    | 0.25                      | 1  |                          | 01/16/17 14:34 | 79-34-5       |      |
| Tetrachloroethene         | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 127-18-4      |      |
| Toluene                   | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 108-88-3      |      |
| 1,2,3-Trichlorobenzene    | <2.1    | ug/L                        | 5.0    | 2.1                       | 1  |                          | 01/16/17 14:34 | 87-61-6       |      |
| 1,2,4-Trichlorobenzene    | <2.2    | ug/L                        | 5.0    | 2.2                       | 1  |                          | 01/16/17 14:34 | 120-82-1      |      |
| 1,1,1-Trichloroethane     | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 71-55-6       | L3   |
| 1,1,2-Trichloroethane     | <0.20   | ug/L                        | 1.0    | 0.20                      | 1  |                          | 01/16/17 14:34 | 79-00-5       |      |
| Trichloroethene           | <0.33   | ug/L                        | 1.0    | 0.33                      | 1  |                          | 01/16/17 14:34 | 79-01-6       |      |
| Trichlorofluoromethane    | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 14:34 | 75-69-4       |      |
| 1,2,3-Trichloropropane    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 96-18-4       |      |
| 1,2,4-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 95-63-6       |      |
| 1,3,5-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 108-67-8      |      |
| Vinyl chloride            | <0.18   | ug/L                        | 1.0    | 0.18                      | 1  |                          | 01/16/17 14:34 | 75-01-4       |      |
| m&p-Xylene                | <1.0    | ug/L                        | 2.0    | 1.0                       | 1  |                          | 01/16/17 14:34 | 179601-23-1   |      |
| o-Xylene                  | <0.50   | ug/L                        | 1.0    | 0.50                      | 1  |                          | 01/16/17 14:34 | 95-47-6       |      |
| <b>Surrogates</b>         |         |                             |        |                           |    |                          |                |               |      |
| 4-Bromofluorobenzene (S)  | 99      | %                           | 70-130 |                           | 1  |                          | 01/16/17 14:34 | 460-00-4      |      |
| Dibromofluoromethane (S)  | 94      | %                           | 70-130 |                           | 1  |                          | 01/16/17 14:34 | 1868-53-7     |      |
| Toluene-d8 (S)            | 105     | %                           | 70-130 |                           | 1  |                          | 01/16/17 14:34 | 2037-26-5     |      |

| Sample: BAITSHOP POTABLE |         | Lab ID: 40144491016          |      | Collected: 01/12/17 13:42 |    | Received: 01/14/17 08:10 |                | Matrix: Water |      |
|--------------------------|---------|------------------------------|------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters               | Results | Units                        | LOQ  | LOD                       | DF | Prepared                 | Analyzed       | CAS No.       | Qual |
| <b>524.2 MSV</b>         |         | Analytical Method: EPA 524.2 |      |                           |    |                          |                |               |      |
| Benzene                  | <0.086  | ug/L                         | 0.50 | 0.086                     | 1  |                          | 01/17/17 17:08 | 71-43-2       |      |
| Bromobenzene             | <0.081  | ug/L                         | 0.50 | 0.081                     | 1  |                          | 01/17/17 17:08 | 108-86-1      |      |
| Bromochloromethane       | <0.16   | ug/L                         | 1.0  | 0.16                      | 1  |                          | 01/17/17 17:08 | 74-97-5       |      |
| Bromodichloromethane     | <0.090  | ug/L                         | 1.0  | 0.090                     | 1  |                          | 01/17/17 17:08 | 75-27-4       |      |
| Bromoform                | <0.23   | ug/L                         | 4.0  | 0.23                      | 1  |                          | 01/17/17 17:08 | 75-25-2       |      |
| Bromomethane             | <0.20   | ug/L                         | 4.0  | 0.20                      | 1  |                          | 01/17/17 17:08 | 74-83-9       |      |
| n-Butylbenzene           | <0.081  | ug/L                         | 0.50 | 0.081                     | 1  |                          | 01/17/17 17:08 | 104-51-8      |      |
| sec-Butylbenzene         | <0.063  | ug/L                         | 0.50 | 0.063                     | 1  |                          | 01/17/17 17:08 | 135-98-8      |      |
| tert-Butylbenzene        | <0.097  | ug/L                         | 0.50 | 0.097                     | 1  |                          | 01/17/17 17:08 | 98-06-6       |      |
| Carbon tetrachloride     | <0.076  | ug/L                         | 1.0  | 0.076                     | 1  |                          | 01/17/17 17:08 | 56-23-5       |      |
| Chlorobenzene            | <0.068  | ug/L                         | 0.50 | 0.068                     | 1  |                          | 01/17/17 17:08 | 108-90-7      |      |
| Chloroethane             | <0.18   | ug/L                         | 1.0  | 0.18                      | 1  |                          | 01/17/17 17:08 | 75-00-3       |      |
| Chloroform               | <0.10   | ug/L                         | 1.0  | 0.10                      | 1  |                          | 01/17/17 17:08 | 67-66-3       |      |
| Chloromethane            | <0.21   | ug/L                         | 4.0  | 0.21                      | 1  |                          | 01/17/17 17:08 | 74-87-3       |      |
| 2-Chlorotoluene          | <0.11   | ug/L                         | 0.50 | 0.11                      | 1  |                          | 01/17/17 17:08 | 95-49-8       |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample:** BAITSHOP POTABLE **Lab ID:** 40144491016 **Collected:** 01/12/17 13:42 **Received:** 01/14/17 08:10 **Matrix:** Water

| Parameters                  | Results | Units                        | LOQ  | LOD   | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|------------------------------|------|-------|----|----------|----------------|-------------|------|
| <b>524.2 MSV</b>            |         | Analytical Method: EPA 524.2 |      |       |    |          |                |             |      |
| 4-Chlorotoluene             | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 01/17/17 17:08 | 106-43-4    |      |
| 1,2-Dibromo-3-chloropropane | <0.18   | ug/L                         | 4.0  | 0.18  | 1  |          | 01/17/17 17:08 | 96-12-8     |      |
| Dibromochloromethane        | <0.13   | ug/L                         | 0.50 | 0.13  | 1  |          | 01/17/17 17:08 | 124-48-1    |      |
| 1,2-Dibromoethane (EDB)     | <0.091  | ug/L                         | 0.50 | 0.091 | 1  |          | 01/17/17 17:08 | 106-93-4    |      |
| Dibromomethane              | <0.098  | ug/L                         | 1.0  | 0.098 | 1  |          | 01/17/17 17:08 | 74-95-3     |      |
| 1,2-Dichlorobenzene         | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 01/17/17 17:08 | 95-50-1     |      |
| 1,3-Dichlorobenzene         | <0.082  | ug/L                         | 0.50 | 0.082 | 1  |          | 01/17/17 17:08 | 541-73-1    |      |
| 1,4-Dichlorobenzene         | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 01/17/17 17:08 | 106-46-7    |      |
| Dichlorodifluoromethane     | <0.16   | ug/L                         | 1.0  | 0.16  | 1  |          | 01/17/17 17:08 | 75-71-8     |      |
| 1,1-Dichloroethane          | <0.088  | ug/L                         | 0.50 | 0.088 | 1  |          | 01/17/17 17:08 | 75-34-3     |      |
| 1,2-Dichloroethane          | <0.092  | ug/L                         | 0.50 | 0.092 | 1  |          | 01/17/17 17:08 | 107-06-2    |      |
| 1,1-Dichloroethene          | <0.089  | ug/L                         | 0.50 | 0.089 | 1  |          | 01/17/17 17:08 | 75-35-4     |      |
| cis-1,2-Dichloroethene      | <0.085  | ug/L                         | 0.50 | 0.085 | 1  |          | 01/17/17 17:08 | 156-59-2    |      |
| trans-1,2-Dichloroethene    | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 01/17/17 17:08 | 156-60-5    |      |
| 1,2-Dichloropropane         | <0.084  | ug/L                         | 4.0  | 0.084 | 1  |          | 01/17/17 17:08 | 78-87-5     |      |
| 1,3-Dichloropropane         | <0.094  | ug/L                         | 0.50 | 0.094 | 1  |          | 01/17/17 17:08 | 142-28-9    |      |
| 2,2-Dichloropropane         | <0.097  | ug/L                         | 1.0  | 0.097 | 1  |          | 01/17/17 17:08 | 594-20-7    |      |
| 1,1-Dichloropropene         | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 01/17/17 17:08 | 563-58-6    |      |
| cis-1,3-Dichloropropene     | <0.071  | ug/L                         | 0.50 | 0.071 | 1  |          | 01/17/17 17:08 | 10061-01-5  |      |
| trans-1,3-Dichloropropene   | <0.055  | ug/L                         | 0.50 | 0.055 | 1  |          | 01/17/17 17:08 | 10061-02-6  |      |
| Ethylbenzene                | <0.051  | ug/L                         | 0.50 | 0.051 | 1  |          | 01/17/17 17:08 | 100-41-4    |      |
| Hexachloro-1,3-butadiene    | <0.11   | ug/L                         | 4.0  | 0.11  | 1  |          | 01/17/17 17:08 | 87-68-3     |      |
| Isopropylbenzene (Cumene)   | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 01/17/17 17:08 | 98-82-8     |      |
| p-Isopropyltoluene          | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 01/17/17 17:08 | 99-87-6     |      |
| Methylene Chloride          | <0.20   | ug/L                         | 4.0  | 0.20  | 1  |          | 01/17/17 17:08 | 75-09-2     |      |
| Naphthalene                 | <0.064  | ug/L                         | 1.0  | 0.064 | 1  |          | 01/17/17 17:08 | 91-20-3     |      |
| n-Propylbenzene             | <0.096  | ug/L                         | 0.50 | 0.096 | 1  |          | 01/17/17 17:08 | 103-65-1    |      |
| Styrene                     | <0.075  | ug/L                         | 0.50 | 0.075 | 1  |          | 01/17/17 17:08 | 100-42-5    |      |
| 1,1,1,2-Tetrachloroethane   | <0.062  | ug/L                         | 0.50 | 0.062 | 1  |          | 01/17/17 17:08 | 630-20-6    |      |
| 1,1,2,2-Tetrachloroethane   | <0.11   | ug/L                         | 0.50 | 0.11  | 1  |          | 01/17/17 17:08 | 79-34-5     |      |
| Tetrachloroethene           | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 01/17/17 17:08 | 127-18-4    |      |
| Toluene                     | <0.080  | ug/L                         | 0.50 | 0.080 | 1  |          | 01/17/17 17:08 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 01/17/17 17:08 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <0.12   | ug/L                         | 0.50 | 0.12  | 1  |          | 01/17/17 17:08 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.10   | ug/L                         | 0.50 | 0.10  | 1  |          | 01/17/17 17:08 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.098  | ug/L                         | 0.50 | 0.098 | 1  |          | 01/17/17 17:08 | 79-00-5     |      |
| Trichloroethene             | <0.044  | ug/L                         | 0.40 | 0.044 | 1  |          | 01/17/17 17:08 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.13   | ug/L                         | 0.50 | 0.13  | 1  |          | 01/17/17 17:08 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.073  | ug/L                         | 4.0  | 0.073 | 1  |          | 01/17/17 17:08 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.083  | ug/L                         | 0.50 | 0.083 | 1  |          | 01/17/17 17:08 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.078  | ug/L                         | 0.50 | 0.078 | 1  |          | 01/17/17 17:08 | 108-67-8    |      |
| Vinyl chloride              | <0.098  | ug/L                         | 0.20 | 0.098 | 1  |          | 01/17/17 17:08 | 75-01-4     |      |
| Xylene (Total)              | <0.073  | ug/L                         | 1.5  | 0.073 | 1  |          | 01/17/17 17:08 | 1330-20-7   |      |
| m&p-Xylene                  | <0.073  | ug/L                         | 1.0  | 0.073 | 1  |          | 01/17/17 17:08 | 179601-23-1 |      |
| o-Xylene                    | <0.073  | ug/L                         | 0.50 | 0.073 | 1  |          | 01/17/17 17:08 | 95-47-6     |      |

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## ANALYTICAL RESULTS

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

**Sample: BAITSHOP POTABLE**      **Lab ID: 40144491016**      Collected: 01/12/17 13:42      Received: 01/14/17 08:10      Matrix: Water

| Parameters                   | Results | Units | LOQ    | LOD | DF | Prepared | Analyzed       | CAS No.    | Qual |
|------------------------------|---------|-------|--------|-----|----|----------|----------------|------------|------|
| <b>524.2 MSV</b>             |         |       |        |     |    |          |                |            |      |
| Analytical Method: EPA 524.2 |         |       |        |     |    |          |                |            |      |
| <b>Surrogates</b>            |         |       |        |     |    |          |                |            |      |
| 4-Bromofluorobenzene (S)     | 95      | %.    | 75-125 |     | 1  |          | 01/17/17 17:08 | 460-00-4   |      |
| Toluene-d8 (S)               | 96      | %.    | 75-125 |     | 1  |          | 01/17/17 17:08 | 2037-26-5  |      |
| 1,2-Dichloroethane-d4 (S)    | 102     | %.    | 75-125 |     | 1  |          | 01/17/17 17:08 | 17060-07-0 |      |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

QC Batch: 246415 Analysis Method: WI MOD GRO  
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV  
Associated Lab Samples: 40144491001, 40144491002, 40144491003, 40144491004, 40144491005

METHOD BLANK: 1457396 Matrix: Solid  
Associated Lab Samples: 40144491001, 40144491002, 40144491003, 40144491004, 40144491005

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| 1,3,5-Trimethylbenzene     | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| Benzene                    | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| Ethylbenzene               | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| m&p-Xylene                 | ug/kg | <50.0        | 100             | 01/17/17 10:47 |            |
| Methyl-tert-butyl ether    | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| Naphthalene                | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| o-Xylene                   | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| Toluene                    | ug/kg | <25.0        | 50.0            | 01/17/17 10:47 |            |
| a,a,a-Trifluorotoluene (S) | %     | 104          | 80-120          | 01/17/17 10:47 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1457397

| Parameter                  | Units | 1457398     |            |             |           |            |              |     |         | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
|                            |       | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD |            |
| 1,2,4-Trimethylbenzene     | ug/kg | 1000        | 1050       | 1080        | 105       | 108        | 80-120       | 3   | 20      |            |
| 1,3,5-Trimethylbenzene     | ug/kg | 1000        | 1020       | 1050        | 102       | 105        | 80-120       | 3   | 20      |            |
| Benzene                    | ug/kg | 1000        | 1040       | 1060        | 104       | 106        | 80-120       | 2   | 20      |            |
| Ethylbenzene               | ug/kg | 1000        | 1020       | 1040        | 102       | 104        | 80-120       | 2   | 20      |            |
| m&p-Xylene                 | ug/kg | 2000        | 2050       | 2120        | 103       | 106        | 80-120       | 3   | 20      |            |
| Methyl-tert-butyl ether    | ug/kg | 1000        | 1080       | 1030        | 108       | 103        | 80-120       | 4   | 20      |            |
| Naphthalene                | ug/kg | 1000        | 985        | 981         | 98        | 98         | 80-120       | 0   | 20      |            |
| o-Xylene                   | ug/kg | 1000        | 1030       | 1060        | 103       | 106        | 80-120       | 3   | 20      |            |
| Toluene                    | ug/kg | 1000        | 1020       | 1030        | 102       | 103        | 80-120       | 1   | 20      |            |
| a,a,a-Trifluorotoluene (S) | %     |             |            |             | 103       | 101        | 80-120       |     |         |            |

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

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

QC Batch: 246321 Analysis Method: WI MOD GRO  
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water  
Associated Lab Samples: 40144491006, 40144491007, 40144491008, 40144491009, 40144491010, 40144491011

METHOD BLANK: 1457024 Matrix: Water  
Associated Lab Samples: 40144491006, 40144491007, 40144491008, 40144491009, 40144491010, 40144491011

| Parameter                  | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,2,4-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 01/16/17 08:14 |            |
| 1,3,5-Trimethylbenzene     | ug/L  | <0.42        | 1.0             | 01/16/17 08:14 |            |
| Benzene                    | ug/L  | <0.40        | 1.0             | 01/16/17 08:14 |            |
| Ethylbenzene               | ug/L  | <0.39        | 1.0             | 01/16/17 08:14 |            |
| m&p-Xylene                 | ug/L  | <0.80        | 2.0             | 01/16/17 08:14 |            |
| Methyl-tert-butyl ether    | ug/L  | <0.48        | 1.0             | 01/16/17 08:14 |            |
| Naphthalene                | ug/L  | <0.42        | 1.0             | 01/16/17 08:14 |            |
| o-Xylene                   | ug/L  | <0.45        | 1.0             | 01/16/17 08:14 |            |
| Toluene                    | ug/L  | <0.39        | 1.0             | 01/16/17 08:14 |            |
| a,a,a-Trifluorotoluene (S) | %     | 101          | 80-120          | 01/16/17 08:14 |            |

LABORATORY CONTROL SAMPLE & LCSD: 1457025

| Parameter                  | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,2,4-Trimethylbenzene     | ug/L  | 20          | 21.0       | 21.7        | 105       | 108        | 80-120       | 3   | 20      |            |
| 1,3,5-Trimethylbenzene     | ug/L  | 20          | 20.5       | 21.1        | 103       | 105        | 80-120       | 3   | 20      |            |
| Benzene                    | ug/L  | 20          | 20.9       | 21.5        | 104       | 107        | 80-120       | 3   | 20      |            |
| Ethylbenzene               | ug/L  | 20          | 20.1       | 20.9        | 100       | 104        | 80-120       | 4   | 20      |            |
| m&p-Xylene                 | ug/L  | 40          | 40.4       | 41.9        | 101       | 105        | 80-120       | 4   | 20      |            |
| Methyl-tert-butyl ether    | ug/L  | 20          | 20.5       | 22.2        | 103       | 111        | 80-120       | 8   | 20      |            |
| Naphthalene                | ug/L  | 20          | 19.3       | 21.0        | 96        | 105        | 80-120       | 9   | 20      |            |
| o-Xylene                   | ug/L  | 20          | 20.4       | 21.0        | 102       | 105        | 80-120       | 3   | 20      |            |
| Toluene                    | ug/L  | 20          | 20.1       | 21.0        | 101       | 105        | 80-120       | 4   | 20      |            |
| a,a,a-Trifluorotoluene (S) | %     |             |            |             | 101       | 103        | 80-120       |     |         |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457081

| Parameter               | Units | 40144422005 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  | 33.5               | 100            | 100             | 142       | 139        | 108      | 106       | 48-177       | 2   | 20      |      |
| 1,3,5-Trimethylbenzene  | ug/L  | 9.4                | 100            | 100             | 108       | 106        | 98       | 97        | 73-145       | 1   | 20      |      |
| Benzene                 | ug/L  | 332                | 100            | 100             | 408       | 397        | 76       | 65        | 74-139       | 3   | 20      | M1   |
| Ethylbenzene            | ug/L  | 110                | 100            | 100             | 205       | 201        | 95       | 91        | 74-140       | 2   | 20      |      |
| m&p-Xylene              | ug/L  | 74.3               | 200            | 200             | 268       | 265        | 97       | 95        | 55-165       | 1   | 20      |      |
| Methyl-tert-butyl ether | ug/L  | <2.4               | 100            | 100             | 94.7      | 93.1       | 95       | 93        | 80-120       | 2   | 20      |      |
| Naphthalene             | ug/L  | 38.6               | 100            | 100             | 130       | 127        | 91       | 88        | 73-133       | 2   | 20      |      |
| o-Xylene                | ug/L  | 23.5               | 100            | 100             | 119       | 118        | 95       | 94        | 73-136       | 1   | 20      |      |
| Toluene                 | ug/L  | 31.5               | 100            | 100             | 123       | 122        | 92       | 91        | 80-128       | 1   | 20      |      |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457081 1457082 |       |                       |                      |                       |              |               |             |              |                 |            |     |      |
|--------------------------------------------------------|-------|-----------------------|----------------------|-----------------------|--------------|---------------|-------------|--------------|-----------------|------------|-----|------|
| Parameter                                              | Units | 40144422005<br>Result | MS<br>Spike<br>Conc. | MSD<br>Spike<br>Conc. | MS<br>Result | MSD<br>Result | MS<br>% Rec | MSD<br>% Rec | % Rec<br>Limits | Max<br>RPD | RPD | Qual |
| a,a,a-Trifluorotoluene (S)                             | %     |                       |                      |                       |              |               | 103         | 103          | 80-120          |            |     |      |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

QC Batch: 246549 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40144491012, 40144491013, 40144491014, 40144491015

METHOD BLANK: 1457774 Matrix: Water  
Associated Lab Samples: 40144491012, 40144491013, 40144491014, 40144491015

| Parameter            | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|----------------------|-------|--------------|-----------------|----------------|------------|
| Iron, Dissolved      | ug/L  | <15.5        | 100             | 01/19/17 11:08 |            |
| Manganese, Dissolved | ug/L  | <1.1         | 5.0             | 01/19/17 11:08 |            |

LABORATORY CONTROL SAMPLE: 1457775

| Parameter            | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Iron, Dissolved      | ug/L  | 5000        | 4910       | 98        | 80-120       |            |
| Manganese, Dissolved | ug/L  | 500         | 470        | 94        | 80-120       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457776 1457777

| Parameter            | Units | 40144471001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Iron, Dissolved      | ug/L  | <15.5              | 5000           | 5000            | 5000      | 4950       | 100      | 99        | 75-125       | 1   | 20      |      |
| Manganese, Dissolved | ug/L  | 37.5               | 500            | 500             | 508       | 504        | 94       | 93        | 75-125       | 1   | 20      |      |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

QC Batch: 246445 Analysis Method: EPA 6010  
QC Batch Method: EPA 3050 Analysis Description: 6010 MET  
Associated Lab Samples: 40144491001, 40144491002, 40144491003, 40144491004, 40144491005

METHOD BLANK: 1457469 Matrix: Solid  
Associated Lab Samples: 40144491001, 40144491002, 40144491003, 40144491004, 40144491005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead      | mg/kg | <0.43        | 1.3             | 01/19/17 09:15 |            |

| LABORATORY CONTROL SAMPLE & LCSD: 1457470 |       | 1457471     |            |             |           |            |              |     |         |            |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter                                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| Lead                                      | mg/kg | 50          | 47.1       | 47.1        | 94        | 94         | 80-120       | 0   | 20      |            |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457472 |       |             |             |             | 1457473 |      |    |     |        |     |      |        |
|------------------------------------------------|-------|-------------|-------------|-------------|---------|------|----|-----|--------|-----|------|--------|
| Parameter                                      | Units | 40144500003 | MS          | MSD         | MS      | MSD  | MS | MSD | % Rec  | Max | Qual |        |
|                                                |       | Result      | Spike Conc. | Spike Conc. |         |      |    |     |        |     |      | Result |
| Lead                                           | mg/kg | 2.7         | 51.5        | 51.4        | 46.5    | 48.8 | 85 | 90  | 75-125 | 5   | 20   |        |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

|                         |             |                       |           |
|-------------------------|-------------|-----------------------|-----------|
| QC Batch:               | 455953      | Analysis Method:      | EPA 524.2 |
| QC Batch Method:        | EPA 524.2   | Analysis Description: | 524.2 MSV |
| Associated Lab Samples: | 40144491016 |                       |           |

|                         |             |         |       |
|-------------------------|-------------|---------|-------|
| METHOD BLANK:           | 2495895     | Matrix: | Water |
| Associated Lab Samples: | 40144491016 |         |       |

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.062       | 0.50            | 01/17/17 13:49 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.10        | 0.50            | 01/17/17 13:49 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.11        | 0.50            | 01/17/17 13:49 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.098       | 0.50            | 01/17/17 13:49 |            |
| 1,1-Dichloroethane          | ug/L  | <0.088       | 0.50            | 01/17/17 13:49 |            |
| 1,1-Dichloroethene          | ug/L  | <0.089       | 0.50            | 01/17/17 13:49 |            |
| 1,1-Dichloropropene         | ug/L  | <0.080       | 0.50            | 01/17/17 13:49 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <0.10        | 0.50            | 01/17/17 13:49 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.073       | 4.0             | 01/17/17 13:49 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <0.12        | 0.50            | 01/17/17 13:49 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.083       | 0.50            | 01/17/17 13:49 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <0.18        | 4.0             | 01/17/17 13:49 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.091       | 0.50            | 01/17/17 13:49 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.10        | 0.50            | 01/17/17 13:49 |            |
| 1,2-Dichloroethane          | ug/L  | <0.092       | 0.50            | 01/17/17 13:49 |            |
| 1,2-Dichloropropane         | ug/L  | <0.084       | 4.0             | 01/17/17 13:49 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.078       | 0.50            | 01/17/17 13:49 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.082       | 0.50            | 01/17/17 13:49 |            |
| 1,3-Dichloropropane         | ug/L  | <0.094       | 0.50            | 01/17/17 13:49 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.075       | 0.50            | 01/17/17 13:49 |            |
| 2,2-Dichloropropane         | ug/L  | <0.097       | 1.0             | 01/17/17 13:49 |            |
| 2-Chlorotoluene             | ug/L  | <0.11        | 0.50            | 01/17/17 13:49 |            |
| 4-Chlorotoluene             | ug/L  | <0.10        | 0.50            | 01/17/17 13:49 |            |
| Benzene                     | ug/L  | <0.086       | 0.50            | 01/17/17 13:49 |            |
| Bromobenzene                | ug/L  | <0.081       | 0.50            | 01/17/17 13:49 |            |
| Bromochloromethane          | ug/L  | <0.16        | 1.0             | 01/17/17 13:49 |            |
| Bromodichloromethane        | ug/L  | <0.090       | 1.0             | 01/17/17 13:49 |            |
| Bromoform                   | ug/L  | <0.23        | 4.0             | 01/17/17 13:49 |            |
| Bromomethane                | ug/L  | <0.20        | 4.0             | 01/17/17 13:49 |            |
| Carbon tetrachloride        | ug/L  | <0.076       | 1.0             | 01/17/17 13:49 |            |
| Chlorobenzene               | ug/L  | <0.068       | 0.50            | 01/17/17 13:49 |            |
| Chloroethane                | ug/L  | <0.18        | 1.0             | 01/17/17 13:49 |            |
| Chloroform                  | ug/L  | <0.10        | 1.0             | 01/17/17 13:49 |            |
| Chloromethane               | ug/L  | <0.21        | 4.0             | 01/17/17 13:49 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.085       | 0.50            | 01/17/17 13:49 |            |
| cis-1,3-Dichloropropene     | ug/L  | <0.071       | 0.50            | 01/17/17 13:49 |            |
| Dibromochloromethane        | ug/L  | <0.13        | 0.50            | 01/17/17 13:49 |            |
| Dibromomethane              | ug/L  | <0.098       | 1.0             | 01/17/17 13:49 |            |
| Dichlorodifluoromethane     | ug/L  | <0.16        | 1.0             | 01/17/17 13:49 |            |
| Ethylbenzene                | ug/L  | <0.051       | 0.50            | 01/17/17 13:49 |            |
| Hexachloro-1,3-butadiene    | ug/L  | <0.11        | 4.0             | 01/17/17 13:49 |            |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

METHOD BLANK: 2495895

Matrix: Water

Associated Lab Samples: 40144491016

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Isopropylbenzene (Cumene) | ug/L  | <0.11        | 0.50            | 01/17/17 13:49 |            |
| m&p-Xylene                | ug/L  | <0.073       | 1.0             | 01/17/17 13:49 |            |
| Methylene Chloride        | ug/L  | <0.20        | 4.0             | 01/17/17 13:49 |            |
| n-Butylbenzene            | ug/L  | <0.081       | 0.50            | 01/17/17 13:49 |            |
| n-Propylbenzene           | ug/L  | <0.096       | 0.50            | 01/17/17 13:49 |            |
| Naphthalene               | ug/L  | <0.064       | 1.0             | 01/17/17 13:49 |            |
| o-Xylene                  | ug/L  | <0.073       | 0.50            | 01/17/17 13:49 |            |
| p-Isopropyltoluene        | ug/L  | <0.083       | 0.50            | 01/17/17 13:49 |            |
| sec-Butylbenzene          | ug/L  | <0.063       | 0.50            | 01/17/17 13:49 |            |
| Styrene                   | ug/L  | <0.075       | 0.50            | 01/17/17 13:49 |            |
| tert-Butylbenzene         | ug/L  | <0.097       | 0.50            | 01/17/17 13:49 |            |
| Tetrachloroethene         | ug/L  | <0.12        | 0.50            | 01/17/17 13:49 |            |
| Toluene                   | ug/L  | <0.080       | 0.50            | 01/17/17 13:49 |            |
| trans-1,2-Dichloroethene  | ug/L  | <0.11        | 0.50            | 01/17/17 13:49 |            |
| trans-1,3-Dichloropropene | ug/L  | <0.055       | 0.50            | 01/17/17 13:49 |            |
| Trichloroethene           | ug/L  | <0.044       | 0.40            | 01/17/17 13:49 |            |
| Trichlorofluoromethane    | ug/L  | <0.13        | 0.50            | 01/17/17 13:49 |            |
| Vinyl chloride            | ug/L  | <0.098       | 0.20            | 01/17/17 13:49 |            |
| Xylene (Total)            | ug/L  | <0.073       | 1.5             | 01/17/17 13:49 |            |
| 1,2-Dichloroethane-d4 (S) | %     | 97           | 75-125          | 01/17/17 13:49 |            |
| 4-Bromofluorobenzene (S)  | %     | 98           | 75-125          | 01/17/17 13:49 |            |
| Toluene-d8 (S)            | %     | 98           | 75-125          | 01/17/17 13:49 |            |

LABORATORY CONTROL SAMPLE & LCSD: 2495896

2495897

| Parameter                   | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | 20          | 23.2       | 22.6        | 116       | 113        | 70-130       | 3   | 20      |            |
| 1,1,1-Trichloroethane       | ug/L  | 20          | 20.1       | 19.7        | 101       | 99         | 70-130       | 2   | 20      |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 20          | 20.8       | 20.7        | 104       | 103        | 70-130       | 1   | 20      |            |
| 1,1,2-Trichloroethane       | ug/L  | 20          | 21.9       | 21.2        | 110       | 106        | 70-130       | 3   | 20      |            |
| 1,1-Dichloroethane          | ug/L  | 20          | 19.6       | 19.2        | 98        | 96         | 70-130       | 2   | 20      |            |
| 1,1-Dichloroethene          | ug/L  | 20          | 20.7       | 20.1        | 103       | 100        | 70-130       | 3   | 20      |            |
| 1,1-Dichloropropene         | ug/L  | 20          | 22.0       | 21.4        | 110       | 107        | 70-130       | 3   | 20      |            |
| 1,2,3-Trichlorobenzene      | ug/L  | 20          | 23.0       | 22.4        | 115       | 112        | 70-130       | 3   | 20      |            |
| 1,2,3-Trichloropropane      | ug/L  | 20          | 21.0       | 20.7        | 105       | 104        | 70-130       | 1   | 20      |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 20          | 21.8       | 21.4        | 109       | 107        | 70-130       | 2   | 20      |            |
| 1,2,4-Trimethylbenzene      | ug/L  | 20          | 20.6       | 20.0        | 103       | 100        | 70-130       | 3   | 20      |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 54.3       | 52.5        | 109       | 105        | 70-130       | 3   | 20      |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 20          | 21.0       | 20.9        | 105       | 104        | 70-130       | 0   | 20      |            |
| 1,2-Dichlorobenzene         | ug/L  | 20          | 21.8       | 21.4        | 109       | 107        | 70-130       | 2   | 20      |            |
| 1,2-Dichloroethane          | ug/L  | 20          | 19.1       | 18.9        | 96        | 95         | 70-130       | 1   | 20      |            |
| 1,2-Dichloropropane         | ug/L  | 20          | 21.5       | 21.1        | 108       | 105        | 70-130       | 2   | 20      |            |
| 1,3,5-Trimethylbenzene      | ug/L  | 20          | 20.9       | 20.4        | 104       | 102        | 70-130       | 2   | 20      |            |
| 1,3-Dichlorobenzene         | ug/L  | 20          | 21.7       | 21.6        | 109       | 108        | 70-130       | 1   | 20      |            |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| LABORATORY CONTROL SAMPLE & LCSD: 2495896 |       |             | 2495897    |             |           |            |              |     |         |            |  |
|-------------------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
| Parameter                                 | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |  |
| 1,3-Dichloropropane                       | ug/L  | 20          | 21.3       | 21.2        | 106       | 106        | 70-130       | 1   | 20      |            |  |
| 1,4-Dichlorobenzene                       | ug/L  | 20          | 21.9       | 21.5        | 109       | 107        | 70-130       | 2   | 20      |            |  |
| 2,2-Dichloropropane                       | ug/L  | 20          | 19.7       | 19.1        | 99        | 96         | 70-130       | 3   | 20      |            |  |
| 2-Chlorotoluene                           | ug/L  | 20          | 21.6       | 21.2        | 108       | 106        | 70-130       | 2   | 20      |            |  |
| 4-Chlorotoluene                           | ug/L  | 20          | 20.8       | 20.3        | 104       | 102        | 70-130       | 2   | 20      |            |  |
| Benzene                                   | ug/L  | 20          | 19.3       | 19.2        | 97        | 96         | 70-130       | 1   | 20      |            |  |
| Bromobenzene                              | ug/L  | 20          | 22.3       | 21.6        | 112       | 108        | 70-130       | 3   | 20      |            |  |
| Bromochloromethane                        | ug/L  | 20          | 22.6       | 22.0        | 113       | 110        | 70-130       | 3   | 20      |            |  |
| Bromodichloromethane                      | ug/L  | 20          | 23.2       | 22.7        | 116       | 113        | 70-130       | 2   | 20      |            |  |
| Bromoform                                 | ug/L  | 20          | 21.4       | 20.7        | 107       | 104        | 70-130       | 3   | 20      |            |  |
| Bromomethane                              | ug/L  | 20          | 16.2       | 17.0        | 81        | 85         | 70-130       | 5   | 20      |            |  |
| Carbon tetrachloride                      | ug/L  | 20          | 22.5       | 21.7        | 112       | 109        | 70-130       | 4   | 20      |            |  |
| Chlorobenzene                             | ug/L  | 20          | 21.4       | 20.8        | 107       | 104        | 70-130       | 3   | 20      |            |  |
| Chloroethane                              | ug/L  | 20          | 20.6       | 20.1        | 103       | 101        | 70-130       | 3   | 20      |            |  |
| Chloroform                                | ug/L  | 20          | 19.5       | 19.1        | 97        | 95         | 70-130       | 2   | 20      |            |  |
| Chloromethane                             | ug/L  | 20          | 15.1       | 14.8        | 75        | 74         | 70-130       | 2   | 20      |            |  |
| cis-1,2-Dichloroethene                    | ug/L  | 20          | 20.4       | 19.8        | 102       | 99         | 70-130       | 3   | 20      |            |  |
| cis-1,3-Dichloropropene                   | ug/L  | 20          | 21.1       | 20.8        | 106       | 104        | 70-130       | 1   | 20      |            |  |
| Dibromochloromethane                      | ug/L  | 20          | 23.5       | 22.5        | 117       | 113        | 70-130       | 4   | 20      |            |  |
| Dibromomethane                            | ug/L  | 20          | 21.3       | 21.6        | 106       | 108        | 70-130       | 2   | 20      |            |  |
| Dichlorodifluoromethane                   | ug/L  | 20          | 19.2       | 18.6        | 96        | 93         | 70-130       | 3   | 20      |            |  |
| Ethylbenzene                              | ug/L  | 20          | 20.7       | 19.9        | 103       | 100        | 70-130       | 4   | 20      |            |  |
| Hexachloro-1,3-butadiene                  | ug/L  | 20          | 23.0       | 23.5        | 115       | 118        | 70-130       | 2   | 20      |            |  |
| Isopropylbenzene (Cumene)                 | ug/L  | 20          | 20.3       | 19.6        | 101       | 98         | 70-130       | 4   | 20      |            |  |
| m&p-Xylene                                | ug/L  | 40          | 41.8       | 40.3        | 105       | 101        | 70-130       | 4   | 20      |            |  |
| Methylene Chloride                        | ug/L  | 20          | 21.2       | 20.7        | 106       | 104        | 70-130       | 2   | 20      |            |  |
| n-Butylbenzene                            | ug/L  | 20          | 20.5       | 20.4        | 103       | 102        | 70-130       | 1   | 20      |            |  |
| n-Propylbenzene                           | ug/L  | 20          | 20.2       | 19.8        | 101       | 99         | 70-130       | 2   | 20      |            |  |
| Naphthalene                               | ug/L  | 20          | 20.4       | 20.2        | 102       | 101        | 70-130       | 1   | 20      |            |  |
| o-Xylene                                  | ug/L  | 20          | 20.9       | 20.3        | 104       | 101        | 70-130       | 3   | 20      |            |  |
| p-Isopropyltoluene                        | ug/L  | 20          | 19.8       | 19.4        | 99        | 97         | 70-130       | 2   | 20      |            |  |
| sec-Butylbenzene                          | ug/L  | 20          | 20.8       | 20.3        | 104       | 102        | 70-130       | 3   | 20      |            |  |
| Styrene                                   | ug/L  | 20          | 21.0       | 20.4        | 105       | 102        | 70-130       | 3   | 20      |            |  |
| tert-Butylbenzene                         | ug/L  | 20          | 20.3       | 20.0        | 102       | 100        | 70-130       | 1   | 20      |            |  |
| Tetrachloroethene                         | ug/L  | 20          | 23.0       | 22.2        | 115       | 111        | 70-130       | 4   | 20      |            |  |
| Toluene                                   | ug/L  | 20          | 20.9       | 20.4        | 104       | 102        | 70-130       | 2   | 20      |            |  |
| trans-1,2-Dichloroethene                  | ug/L  | 20          | 20.5       | 20.4        | 102       | 102        | 70-130       | 0   | 20      |            |  |
| trans-1,3-Dichloropropene                 | ug/L  | 20          | 22.0       | 21.2        | 110       | 106        | 70-130       | 4   | 20      |            |  |
| Trichloroethene                           | ug/L  | 20          | 22.5       | 22.0        | 113       | 110        | 70-130       | 2   | 20      |            |  |
| Trichlorofluoromethane                    | ug/L  | 20          | 22.5       | 22.0        | 112       | 110        | 70-130       | 2   | 20      |            |  |
| Vinyl chloride                            | ug/L  | 20          | 20.3       | 19.9        | 102       | 100        | 70-130       | 2   | 20      |            |  |
| Xylene (Total)                            | ug/L  | 60          | 62.7       | 60.6        | 104       | 101        | 70-130       | 3   | 20      |            |  |
| 1,2-Dichloroethane-d4 (S)                 | %.    |             |            |             | 94        | 93         | 75-125       |     |         |            |  |
| 4-Bromofluorobenzene (S)                  | %.    |             |            |             | 97        | 95         | 75-125       |     |         |            |  |
| Toluene-d8 (S)                            | %.    |             |            |             | 100       | 98         | 75-125       |     |         |            |  |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

QC Batch: 246320 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40144491012, 40144491013, 40144491014, 40144491015

METHOD BLANK: 1457022 Matrix: Water  
Associated Lab Samples: 40144491012, 40144491013, 40144491014, 40144491015

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.18        | 1.0             | 01/16/17 08:39 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.25        | 1.0             | 01/16/17 08:39 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.20        | 1.0             | 01/16/17 08:39 |            |
| 1,1-Dichloroethane          | ug/L  | <0.24        | 1.0             | 01/16/17 08:39 |            |
| 1,1-Dichloroethene          | ug/L  | <0.41        | 1.0             | 01/16/17 08:39 |            |
| 1,1-Dichloropropene         | ug/L  | <0.44        | 1.0             | 01/16/17 08:39 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <2.1         | 5.0             | 01/16/17 08:39 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <2.2         | 5.0             | 01/16/17 08:39 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <2.2         | 5.0             | 01/16/17 08:39 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.18        | 1.0             | 01/16/17 08:39 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,2-Dichloroethane          | ug/L  | <0.17        | 1.0             | 01/16/17 08:39 |            |
| 1,2-Dichloropropane         | ug/L  | <0.23        | 1.0             | 01/16/17 08:39 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,3-Dichloropropane         | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 2,2-Dichloropropane         | ug/L  | <0.48        | 1.0             | 01/16/17 08:39 |            |
| 2-Chlorotoluene             | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| 4-Chlorotoluene             | ug/L  | <0.21        | 1.0             | 01/16/17 08:39 |            |
| Benzene                     | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Bromobenzene                | ug/L  | <0.23        | 1.0             | 01/16/17 08:39 |            |
| Bromochloromethane          | ug/L  | <0.34        | 1.0             | 01/16/17 08:39 |            |
| Bromodichloromethane        | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Bromoform                   | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Bromomethane                | ug/L  | <2.4         | 5.0             | 01/16/17 08:39 |            |
| Carbon tetrachloride        | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Chlorobenzene               | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Chloroethane                | ug/L  | <0.37        | 1.0             | 01/16/17 08:39 |            |
| Chloroform                  | ug/L  | <2.5         | 5.0             | 01/16/17 08:39 |            |
| Chloromethane               | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.26        | 1.0             | 01/16/17 08:39 |            |
| cis-1,3-Dichloropropene     | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Dibromochloromethane        | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Dibromomethane              | ug/L  | <0.43        | 1.0             | 01/16/17 08:39 |            |
| Dichlorodifluoromethane     | ug/L  | <0.22        | 1.0             | 01/16/17 08:39 |            |
| Diisopropyl ether           | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Ethylbenzene                | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

METHOD BLANK: 1457022

Matrix: Water

Associated Lab Samples: 40144491012, 40144491013, 40144491014, 40144491015

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Hexachloro-1,3-butadiene  | ug/L  | <2.1         | 5.0             | 01/16/17 08:39 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.14        | 1.0             | 01/16/17 08:39 |            |
| m&p-Xylene                | ug/L  | <1.0         | 2.0             | 01/16/17 08:39 |            |
| Methyl-tert-butyl ether   | ug/L  | <0.17        | 1.0             | 01/16/17 08:39 |            |
| Methylene Chloride        | ug/L  | <0.23        | 1.0             | 01/16/17 08:39 |            |
| n-Butylbenzene            | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| n-Propylbenzene           | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Naphthalene               | ug/L  | <2.5         | 5.0             | 01/16/17 08:39 |            |
| o-Xylene                  | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| p-Isopropyltoluene        | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| sec-Butylbenzene          | ug/L  | <2.2         | 5.0             | 01/16/17 08:39 |            |
| Styrene                   | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| tert-Butylbenzene         | ug/L  | <0.18        | 1.0             | 01/16/17 08:39 |            |
| Tetrachloroethene         | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| Toluene                   | ug/L  | <0.50        | 1.0             | 01/16/17 08:39 |            |
| trans-1,2-Dichloroethene  | ug/L  | <0.26        | 1.0             | 01/16/17 08:39 |            |
| trans-1,3-Dichloropropene | ug/L  | <0.23        | 1.0             | 01/16/17 08:39 |            |
| Trichloroethene           | ug/L  | <0.33        | 1.0             | 01/16/17 08:39 |            |
| Trichlorofluoromethane    | ug/L  | <0.18        | 1.0             | 01/16/17 08:39 |            |
| Vinyl chloride            | ug/L  | <0.18        | 1.0             | 01/16/17 08:39 |            |
| 4-Bromofluorobenzene (S)  | %     | 102          | 70-130          | 01/16/17 08:39 |            |
| Dibromofluoromethane (S)  | %     | 94           | 70-130          | 01/16/17 08:39 |            |
| Toluene-d8 (S)            | %     | 104          | 70-130          | 01/16/17 08:39 |            |

LABORATORY CONTROL SAMPLE: 1457023

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 20          | 28.7       | 143       | 70-131       | L0         |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 20          | 16.0       | 80        | 67-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 20          | 17.0       | 85        | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 20          | 18.1       | 91        | 70-133       |            |
| 1,1-Dichloroethene          | ug/L  | 20          | 17.2       | 86        | 70-130       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 20          | 18.1       | 91        | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 20          | 16.2       | 81        | 50-150       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 20          | 16.0       | 80        | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 20          | 17.4       | 87        | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 20          | 16.4       | 82        | 70-130       |            |
| 1,2-Dichloropropane         | ug/L  | 20          | 18.0       | 90        | 70-130       |            |
| 1,3-Dichlorobenzene         | ug/L  | 20          | 17.7       | 89        | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 20          | 18.5       | 92        | 70-130       |            |
| Benzene                     | ug/L  | 20          | 18.7       | 93        | 60-135       |            |
| Bromodichloromethane        | ug/L  | 20          | 17.9       | 90        | 70-130       |            |
| Bromoform                   | ug/L  | 20          | 18.7       | 94        | 70-130       |            |
| Bromomethane                | ug/L  | 20          | 10.7       | 54        | 33-130       |            |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

LABORATORY CONTROL SAMPLE: 1457023

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Carbon tetrachloride      | ug/L  | 20          | 17.4       | 87        | 70-138       |            |
| Chlorobenzene             | ug/L  | 20          | 19.1       | 95        | 70-130       |            |
| Chloroethane              | ug/L  | 20          | 19.0       | 95        | 51-130       |            |
| Chloroform                | ug/L  | 20          | 17.2       | 86        | 70-130       |            |
| Chloromethane             | ug/L  | 20          | 15.3       | 77        | 25-132       |            |
| cis-1,2-Dichloroethene    | ug/L  | 20          | 17.1       | 85        | 69-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 20          | 18.5       | 93        | 70-130       |            |
| Dibromochloromethane      | ug/L  | 20          | 16.6       | 83        | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 20          | 12.4       | 62        | 23-130       |            |
| Ethylbenzene              | ug/L  | 20          | 19.6       | 98        | 70-136       |            |
| Isopropylbenzene (Cumene) | ug/L  | 20          | 19.5       | 97        | 70-140       |            |
| m&p-Xylene                | ug/L  | 40          | 38.9       | 97        | 70-138       |            |
| Methyl-tert-butyl ether   | ug/L  | 20          | 15.1       | 75        | 66-138       |            |
| Methylene Chloride        | ug/L  | 20          | 15.8       | 79        | 70-130       |            |
| o-Xylene                  | ug/L  | 20          | 18.9       | 95        | 70-134       |            |
| Styrene                   | ug/L  | 20          | 18.9       | 95        | 70-133       |            |
| Tetrachloroethene         | ug/L  | 20          | 18.5       | 93        | 70-138       |            |
| Toluene                   | ug/L  | 20          | 19.4       | 97        | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 20          | 16.8       | 84        | 70-131       |            |
| trans-1,3-Dichloropropene | ug/L  | 20          | 18.9       | 95        | 69-130       |            |
| Trichloroethene           | ug/L  | 20          | 18.3       | 92        | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 20          | 19.6       | 98        | 50-150       |            |
| Vinyl chloride            | ug/L  | 20          | 19.9       | 100       | 49-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 104       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 95        | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 105       | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457075 1457076

| Parameter                   | Units | 40144422001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| 1,1,1-Trichloroethane       | ug/L  | <0.50              | 1000           | 1000            | 985       | 985        | 99       | 98        | 70-134       | 0   | 20      |      |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.25              | 1000           | 1000            | 889       | 876        | 89       | 88        | 67-130       | 1   | 20      |      |
| 1,1,2-Trichloroethane       | ug/L  | <0.20              | 1000           | 1000            | 907       | 920        | 91       | 92        | 70-130       | 1   | 20      |      |
| 1,1-Dichloroethane          | ug/L  | <0.24              | 1000           | 1000            | 990       | 999        | 99       | 100       | 70-134       | 1   | 20      |      |
| 1,1-Dichloroethene          | ug/L  | <0.41              | 1000           | 1000            | 936       | 953        | 94       | 95        | 68-136       | 2   | 20      |      |
| 1,2,4-Trichlorobenzene      | ug/L  | <2.2               | 1000           | 1000            | 1030      | 1050       | 103      | 105       | 62-139       | 1   | 20      |      |
| 1,2-Dibromo-3-chloropropane | ug/L  | <2.2               | 1000           | 1000            | 926       | 860        | 93       | 86        | 50-150       | 7   | 20      |      |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.18              | 1000           | 1000            | 933       | 928        | 93       | 93        | 70-130       | 0   | 20      |      |
| 1,2-Dichlorobenzene         | ug/L  | <0.50              | 1000           | 1000            | 981       | 991        | 98       | 99        | 70-130       | 1   | 20      |      |
| 1,2-Dichloroethane          | ug/L  | <0.17              | 1000           | 1000            | 926       | 931        | 93       | 93        | 70-130       | 1   | 20      |      |
| 1,2-Dichloropropane         | ug/L  | <0.23              | 1000           | 1000            | 987       | 996        | 99       | 100       | 70-130       | 1   | 20      |      |
| 1,3-Dichlorobenzene         | ug/L  | <0.50              | 1000           | 1000            | 993       | 1000       | 99       | 100       | 70-131       | 1   | 20      |      |
| 1,4-Dichlorobenzene         | ug/L  | <0.50              | 1000           | 1000            | 978       | 973        | 98       | 97        | 70-130       | 1   | 20      |      |

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1457075 |       |             |       | 1457076 |      |      |     |     |        |        |     |     |      |
|------------------------------------------------|-------|-------------|-------|---------|------|------|-----|-----|--------|--------|-----|-----|------|
| Parameter                                      | Units | 40144422001 | MS    | MSD     | MS   | MSD  | MS  | MSD | % Rec  | Limits | RPD | Max | Qual |
|                                                |       | Result      | Spike | Spike   |      |      |     |     |        |        |     |     |      |
| Benzene                                        | ug/L  | <0.50       | 1000  | 1000    | 999  | 1010 | 100 | 101 | 57-138 | 1      | 20  |     |      |
| Bromodichloromethane                           | ug/L  | <0.50       | 1000  | 1000    | 1010 | 1030 | 101 | 103 | 70-130 | 2      | 20  |     |      |
| Bromoform                                      | ug/L  | <0.50       | 1000  | 1000    | 918  | 911  | 92  | 91  | 70-130 | 1      | 20  |     |      |
| Bromomethane                                   | ug/L  | <2.4        | 1000  | 1000    | 658  | 673  | 66  | 67  | 33-130 | 2      | 27  |     |      |
| Carbon tetrachloride                           | ug/L  | <0.50       | 1000  | 1000    | 984  | 997  | 98  | 100 | 70-138 | 1      | 20  |     |      |
| Chlorobenzene                                  | ug/L  | <0.50       | 1000  | 1000    | 1020 | 1010 | 102 | 101 | 70-130 | 0      | 20  |     |      |
| Chloroethane                                   | ug/L  | <0.37       | 1000  | 1000    | 1060 | 1080 | 106 | 108 | 51-130 | 2      | 20  |     |      |
| Chloroform                                     | ug/L  | 47.7        | 1000  | 1000    | 973  | 971  | 93  | 92  | 70-130 | 0      | 20  |     |      |
| Chloromethane                                  | ug/L  | <0.50       | 1000  | 1000    | 834  | 817  | 83  | 82  | 25-132 | 2      | 20  |     |      |
| cis-1,2-Dichloroethene                         | ug/L  | <0.26       | 1000  | 1000    | 915  | 929  | 92  | 93  | 61-140 | 1      | 20  |     |      |
| cis-1,3-Dichloropropene                        | ug/L  | <0.50       | 1000  | 1000    | 1020 | 1040 | 102 | 104 | 70-130 | 1      | 20  |     |      |
| Dibromochloromethane                           | ug/L  | <0.50       | 1000  | 1000    | 946  | 934  | 95  | 93  | 70-130 | 1      | 20  |     |      |
| Dichlorodifluoromethane                        | ug/L  | <0.22       | 1000  | 1000    | 643  | 668  | 64  | 67  | 23-130 | 4      | 20  |     |      |
| Ethylbenzene                                   | ug/L  | 17.9        | 1000  | 1000    | 1110 | 1110 | 110 | 109 | 70-138 | 0      | 20  |     |      |
| Isopropylbenzene (Cumene)                      | ug/L  | 5.0         | 1000  | 1000    | 1100 | 1100 | 109 | 109 | 70-152 | 0      | 20  |     |      |
| m&p-Xylene                                     | ug/L  | 220         | 2000  | 2000    | 2340 | 2330 | 106 | 105 | 70-140 | 0      | 20  |     |      |
| Methyl-tert-butyl ether                        | ug/L  | <0.17       | 1000  | 1000    | 842  | 840  | 84  | 84  | 66-139 | 0      | 20  |     |      |
| Methylene Chloride                             | ug/L  | <0.23       | 1000  | 1000    | 856  | 836  | 86  | 84  | 70-130 | 2      | 20  |     |      |
| o-Xylene                                       | ug/L  | 159         | 1000  | 1000    | 1200 | 1220 | 105 | 106 | 70-134 | 1      | 20  |     |      |
| Styrene                                        | ug/L  | <0.50       | 1000  | 1000    | 1080 | 1080 | 108 | 108 | 70-138 | 0      | 20  |     |      |
| Tetrachloroethene                              | ug/L  | <0.50       | 1000  | 1000    | 989  | 1010 | 99  | 101 | 70-148 | 2      | 20  |     |      |
| Toluene                                        | ug/L  | 14.7        | 1000  | 1000    | 1060 | 1070 | 104 | 106 | 70-130 | 1      | 20  |     |      |
| trans-1,2-Dichloroethene                       | ug/L  | <0.26       | 1000  | 1000    | 888  | 900  | 89  | 90  | 70-133 | 1      | 20  |     |      |
| trans-1,3-Dichloropropene                      | ug/L  | <0.23       | 1000  | 1000    | 974  | 938  | 97  | 94  | 69-130 | 4      | 20  |     |      |
| Trichloroethene                                | ug/L  | <0.33       | 1000  | 1000    | 1010 | 1010 | 101 | 101 | 70-131 | 0      | 20  |     |      |
| Trichlorofluoromethane                         | ug/L  | <0.18       | 1000  | 1000    | 1060 | 1070 | 106 | 107 | 50-150 | 1      | 20  |     |      |
| Vinyl chloride                                 | ug/L  | <0.18       | 1000  | 1000    | 1060 | 1080 | 106 | 108 | 49-133 | 2      | 20  |     |      |
| 4-Bromofluorobenzene (S)                       | %     |             |       |         |      |      | 106 | 105 | 70-130 |        |     |     |      |
| Dibromofluoromethane (S)                       | %     |             |       |         |      |      | 96  | 96  | 70-130 |        |     |     |      |
| Toluene-d8 (S)                                 | %     |             |       |         |      |      | 104 | 105 | 70-130 |        |     |     |      |

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

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367AXUC HEDLUND DX

Pace Project No.: 40144491

---

QC Batch: 246315                      Analysis Method: ASTM D2974-87  
 QC Batch Method: ASTM D2974-87                      Analysis Description: Dry Weight/Percent Moisture  
 Associated Lab Samples: 40144491001, 40144491002, 40144491003, 40144491004, 40144491005

---

SAMPLE DUPLICATE: 1456982

| Parameter        | Units | 40144491001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | %     | 25.0                  | 25.2          | 1   | 10         |            |

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

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

---

### 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  
PASI-M Pace Analytical Services - Minneapolis

### BATCH QUALIFIERS

Batch: 455953

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1q Sample received overweight. Values should be considered an estimate.  
HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).  
L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.  
L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.  
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.  
W Non-detect results are reported on a wet weight basis.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367AXUC HEDLUND DX  
Pace Project No.: 40144491

| Lab ID      | Sample ID         | QC Batch Method      | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------------|----------------------|----------|-------------------|------------------|
| 40144491001 | MW9 @ 2-4' BLS    | TPH GRO/PVOC WI ext. | 246415   | WI MOD GRO        | 246451           |
| 40144491002 | MW10 @ 3-4' BLS   | TPH GRO/PVOC WI ext. | 246415   | WI MOD GRO        | 246451           |
| 40144491003 | MW10 @ 13-14' BLS | TPH GRO/PVOC WI ext. | 246415   | WI MOD GRO        | 246451           |
| 40144491004 | MW11 @ 2-4' BLS   | TPH GRO/PVOC WI ext. | 246415   | WI MOD GRO        | 246451           |
| 40144491005 | MW11 @ 15-16' BLS | TPH GRO/PVOC WI ext. | 246415   | WI MOD GRO        | 246451           |
| 40144491006 | MW1               | WI MOD GRO           | 246321   |                   |                  |
| 40144491007 | MW3               | WI MOD GRO           | 246321   |                   |                  |
| 40144491008 | MW4               | WI MOD GRO           | 246321   |                   |                  |
| 40144491009 | MW5               | WI MOD GRO           | 246321   |                   |                  |
| 40144491010 | MW6               | WI MOD GRO           | 246321   |                   |                  |
| 40144491011 | MW7               | WI MOD GRO           | 246321   |                   |                  |
| 40144491001 | MW9 @ 2-4' BLS    | EPA 3050             | 246445   | EPA 6010          | 246581           |
| 40144491002 | MW10 @ 3-4' BLS   | EPA 3050             | 246445   | EPA 6010          | 246581           |
| 40144491003 | MW10 @ 13-14' BLS | EPA 3050             | 246445   | EPA 6010          | 246581           |
| 40144491004 | MW11 @ 2-4' BLS   | EPA 3050             | 246445   | EPA 6010          | 246581           |
| 40144491005 | MW11 @ 15-16' BLS | EPA 3050             | 246445   | EPA 6010          | 246581           |
| 40144491012 | MW8               | EPA 6010             | 246549   |                   |                  |
| 40144491013 | MW9               | EPA 6010             | 246549   |                   |                  |
| 40144491014 | MW10              | EPA 6010             | 246549   |                   |                  |
| 40144491015 | MW11              | EPA 6010             | 246549   |                   |                  |
| 40144491016 | BAITSHOP POTABLE  | EPA 524.2            | 455953   |                   |                  |
| 40144491012 | MW8               | EPA 8260             | 246320   |                   |                  |
| 40144491013 | MW9               | EPA 8260             | 246320   |                   |                  |
| 40144491014 | MW10              | EPA 8260             | 246320   |                   |                  |
| 40144491015 | MW11              | EPA 8260             | 246320   |                   |                  |
| 40144491001 | MW9 @ 2-4' BLS    | ASTM D2974-87        | 246315   |                   |                  |
| 40144491002 | MW10 @ 3-4' BLS   | ASTM D2974-87        | 246315   |                   |                  |
| 40144491003 | MW10 @ 13-14' BLS | ASTM D2974-87        | 246315   |                   |                  |
| 40144491004 | MW11 @ 2-4' BLS   | ASTM D2974-87        | 246315   |                   |                  |
| 40144491005 | MW11 @ 15-16' BLS | ASTM D2974-87        | 246315   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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



**Pace Analytical**  
www.paceanalytical.com

# CHAIN OF CUSTODY

**Preservation Codes**  
A=None B=HCL C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH  
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

**FILTERED?**  
(YES/NO)

**PRESERVATION  
(CODE)\***

**Regulatory  
Program:**

**MS/MSD**

☐ On your sample (billable)  
☐ EPA Level III  
☐ EPA Level IV  
☐ NOT needed on your sample

**Matrix Codes**

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

**PAGE LAB #**

**CLIENT FIELD ID**

**DATE**

**TIME**

**MATRIX**

**COLLECTION**

**DATE**

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# CHAIN OF CUSTODY

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

|                     |                             |
|---------------------|-----------------------------|
| Quote #:            |                             |
| Mail To Contact:    | Dave Larsen                 |
| Mail To Company:    | RFT                         |
| Mail To Address:    | darsen@resengineering.com   |
| Invoice To Contact: |                             |
| Invoice To Company: |                             |
| Invoice To Address: |                             |
| Invoice To Phone:   |                             |
| CLIENT COMMENTS     | LAB COMMENTS (Lab Use Only) |
| 2 VOA               | 2-40mV B                    |
| 2 VOA               | 2-40mV B                    |
| 2 VOA               | 2-40mV B                    |
| 1 VOA               | 3-40mV B                    |
| 1 VOA               | 1-40mV B                    |
|                     | 3-40mV B 1-250mp            |

|              |            |
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| Received By: | Date/Time: |

|                     |                |
|---------------------|----------------|
| Company Name:       | RFT            |
| Branch/Location:    | Wagon          |
| Project Contact:    | Dave Larsen    |
| Phone:              | 715-675-9784   |
| Project Number:     | 7367 aXUL      |
| Project Name:       | Hedlund DX     |
| Project State:      | WI             |
| Sampled By (Print): | Brian J. Boley |
| Sampled By (Sign):  | [Signature]    |
| PO #:               |                |

| PACE LAB # | CLIENT FIELD ID  | COLLECTION |        | MATRIX |
|------------|------------------|------------|--------|--------|
|            |                  | DATE       | TIME   |        |
| 006        | MW1              | 1/11/17    | 3:15P  | GW     |
| 007        | MW3              | 1/11/17    | 2:45P  | GW     |
| 008        | MW4              | 1/11/17    | 3:00P  | GW     |
| 009        | MW5              | 1/11/17    | 2:30P  | GW     |
| 010        | MW6              | 1/11/17    | 4:45P  | GW     |
| 011        | MW7              | 1/11/17    | 5:30P  | GW     |
| 012        | MW8              | 1/12/17    | 9:00A  | GW     |
| 013        | MW9              | 1/12/17    | 9:50A  | GW     |
| 014        | MW10             | 1/12/17    | 12:40P | GW     |
| 015        | MW11             | 1/12/17    | 5:15P  | GW     |
| 016        | Bartshop Potable | 1/12/17    | 1:42P  | DW     |

|                                                                                      |              |
|--------------------------------------------------------------------------------------|--------------|
| Rush Turnaround Time Requested - Prelims<br>(Rush TAT subject to approval/surcharge) | Date Needed: |
| Transmit Prelim Rush Results by (complete what you want):                            |              |
| Email #1:                                                                            |              |
| Email #2:                                                                            |              |
| Telephone:                                                                           |              |
| Fax:                                                                                 |              |
| Samples on HOLD are subject to special pricing and release of liability              |              |

# Sample Condition Upon Receipt

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

**Pace Analytical™**

Client Name: REX

Project #:

WO#: **40144491**

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

Tracking #: 1260994-1



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 NA

Type of Ice: ☒ Wet ☒ Blue ☐ Dry ☐ None

☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RD1 /Corr:

Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Person examining contents:

Date: 1-14-17

Initials: mm

Comments:

|                                                                                                                                                                                                                                                                    |                                                                                                  |                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.                                                                                                                                                                               |
| Chain of Custody Relinquished:                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.                                                                                                                                                                               |
| 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 checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 11. <u>1-14-17</u>                                                                                                                                                               |
| Sample Labels match COC:                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.                                                                                                                                                                              |
| -Includes date/time/ID/Analysis Matrix: <u>S.W</u>                                                                                                                                                                                                                 |                                                                                                  |                                                                                                                                                                                  |
| All containers needing preservation have been checked.<br>(Non-Compliance noted in 13.)                                                                                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 13.                                                                                                                                                                              |
| All containers needing preservation are found to be in<br>compliance with EPA recommendation.<br>(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> ≤ 2; NaOH+ZnAct ≥ 9, NaOH ≥ 12)<br>exceptions: VOA, coliform, TOC, TOX, TOH,<br>O&G, WIDROW, Phenolics, OTHER: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | <input checked="" type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct |
| Initial when completed                                                                                                                                                                                                                                             | Lab Std #ID of preservative                                                                      | Date/Time:                                                                                                                                                                       |
| Headspace in VOA Vials (>6mm):                                                                                                                                                                                                                                     | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 14.                                                                                                                                                                              |
| Trip Blank Present:                                                                                                                                                                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 15.                                                                                                                                                                              |
| Trip Blank Custody Seals Present                                                                                                                                                                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |                                                                                                                                                                                  |
| Pace Trip Blank Lot # (if purchased):                                                                                                                                                                                                                              |                                                                                                  |                                                                                                                                                                                  |

Client Notification/ Resolution:

Person Contacted:

Date/Time:

If checked, see attached form for additional comments ☐

Comments/ Resolution:

Project Manager Review:

Date:

1-16-17



## **APPENDIX J**

### **SUB-SLAB VAPOR ANALYTICAL REPORT**



January 18, 2017

David Larsen  
REI Engineering  
4080 N. 20th Ave  
Wausau, WI 54401

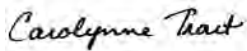
RE: Project: 7367 Hedlund DX  
Pace Project No.: 10376059

Dear David Larsen:

Enclosed are the analytical results for sample(s) received by the laboratory on January 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Carolynne Trout  
carolynne.trout@pacelabs.com  
Project Manager

Enclosures

cc: Scott Blado, REI Engineering



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: 7367 Hedlund DX

Pace Project No.: 10376059

---

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

Alaska Certification UST-107

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #:14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 7367 Hedlund DX

Pace Project No.: 10376059

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 10376059001 | VP-1      | Air    | 01/12/17 02:15 | 01/17/17 09:40 |
| 10376059002 | VP-2      | Air    | 01/12/17 02:55 | 01/17/17 09:40 |

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: 7367 Hedlund DX

Pace Project No.: 10376059

| Lab ID      | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------|----------|-------------------|------------|
| 10376059001 | VP-1      | TO-15  | NCK      | 57                | PASI-M     |
| 10376059002 | VP-2      | TO-15  | NCK      | 57                | PASI-M     |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 Hedlund DX

Pace Project No.: 10376059

**Sample: VP-1**      **Lab ID: 10376059001**      Collected: 01/12/17 02:15      Received: 01/17/17 09:40      Matrix: Air

| Parameters                  | Results         | Units                    | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|-----------------|--------------------------|------|------|------|----------|----------------|------------|------|
| <b>TO15 MSV AIR</b>         |                 | Analytical Method: TO-15 |      |      |      |          |                |            |      |
| Acetone                     | <b>63.1</b>     | ug/m3                    | 3.5  | 1.2  | 1.44 |          | 01/17/17 23:16 | 67-64-1    |      |
| Benzene                     | <b>2.5</b>      | ug/m3                    | 0.47 | 0.18 | 1.44 |          | 01/17/17 23:16 | 71-43-2    |      |
| Bromodichloromethane        | <b>&lt;0.28</b> | ug/m3                    | 2.0  | 0.28 | 1.44 |          | 01/17/17 23:16 | 75-27-4    |      |
| Bromoform                   | <b>&lt;1.3</b>  | ug/m3                    | 3.0  | 1.3  | 1.44 |          | 01/17/17 23:16 | 75-25-2    |      |
| Bromomethane                | <b>&lt;0.45</b> | ug/m3                    | 1.1  | 0.45 | 1.44 |          | 01/17/17 23:16 | 74-83-9    |      |
| 1,3-Butadiene               | <b>&lt;0.25</b> | ug/m3                    | 0.65 | 0.25 | 1.44 |          | 01/17/17 23:16 | 106-99-0   |      |
| 2-Butanone (MEK)            | <b>5.8</b>      | ug/m3                    | 4.3  | 0.33 | 1.44 |          | 01/17/17 23:16 | 78-93-3    |      |
| Carbon disulfide            | <b>&lt;0.15</b> | ug/m3                    | 0.91 | 0.15 | 1.44 |          | 01/17/17 23:16 | 75-15-0    |      |
| Carbon tetrachloride        | <b>0.48J</b>    | ug/m3                    | 0.92 | 0.28 | 1.44 |          | 01/17/17 23:16 | 56-23-5    |      |
| Chlorobenzene               | <b>&lt;0.19</b> | ug/m3                    | 1.4  | 0.19 | 1.44 |          | 01/17/17 23:16 | 108-90-7   |      |
| Chloroethane                | <b>&lt;0.28</b> | ug/m3                    | 0.78 | 0.28 | 1.44 |          | 01/17/17 23:16 | 75-00-3    |      |
| Chloroform                  | <b>&lt;0.27</b> | ug/m3                    | 0.71 | 0.27 | 1.44 |          | 01/17/17 23:16 | 67-66-3    |      |
| Chloromethane               | <b>0.84</b>     | ug/m3                    | 0.60 | 0.16 | 1.44 |          | 01/17/17 23:16 | 74-87-3    |      |
| Cyclohexane                 | <b>2.3</b>      | ug/m3                    | 1.0  | 0.46 | 1.44 |          | 01/17/17 23:16 | 110-82-7   |      |
| Dibromochloromethane        | <b>&lt;1.2</b>  | ug/m3                    | 2.5  | 1.2  | 1.44 |          | 01/17/17 23:16 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <b>&lt;1.1</b>  | ug/m3                    | 2.2  | 1.1  | 1.44 |          | 01/17/17 23:16 | 106-93-4   |      |
| 1,2-Dichlorobenzene         | <b>&lt;0.74</b> | ug/m3                    | 1.8  | 0.74 | 1.44 |          | 01/17/17 23:16 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <b>&lt;0.76</b> | ug/m3                    | 1.8  | 0.76 | 1.44 |          | 01/17/17 23:16 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <b>&lt;0.72</b> | ug/m3                    | 1.8  | 0.72 | 1.44 |          | 01/17/17 23:16 | 106-46-7   |      |
| Dichlorodifluoromethane     | <b>3.4J</b>     | ug/m3                    | 3.6  | 0.69 | 1.44 |          | 01/17/17 23:16 | 75-71-8    |      |
| 1,1-Dichloroethane          | <b>&lt;0.23</b> | ug/m3                    | 1.2  | 0.23 | 1.44 |          | 01/17/17 23:16 | 75-34-3    |      |
| 1,2-Dichloroethane          | <b>&lt;0.30</b> | ug/m3                    | 0.59 | 0.30 | 1.44 |          | 01/17/17 23:16 | 107-06-2   |      |
| 1,1-Dichloroethene          | <b>&lt;0.34</b> | ug/m3                    | 1.2  | 0.34 | 1.44 |          | 01/17/17 23:16 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <b>&lt;0.35</b> | ug/m3                    | 1.2  | 0.35 | 1.44 |          | 01/17/17 23:16 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <b>&lt;0.55</b> | ug/m3                    | 1.2  | 0.55 | 1.44 |          | 01/17/17 23:16 | 156-60-5   |      |
| 1,2-Dichloropropane         | <b>&lt;0.39</b> | ug/m3                    | 1.4  | 0.39 | 1.44 |          | 01/17/17 23:16 | 78-87-5    |      |
| cis-1,3-Dichloropropene     | <b>&lt;0.53</b> | ug/m3                    | 1.3  | 0.53 | 1.44 |          | 01/17/17 23:16 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <b>&lt;0.37</b> | ug/m3                    | 1.3  | 0.37 | 1.44 |          | 01/17/17 23:16 | 10061-02-6 |      |
| Dichlorotetrafluoroethane   | <b>&lt;0.45</b> | ug/m3                    | 2.0  | 0.45 | 1.44 |          | 01/17/17 23:16 | 76-14-2    |      |
| Ethyl acetate               | <b>&lt;0.50</b> | ug/m3                    | 1.1  | 0.50 | 1.44 |          | 01/17/17 23:16 | 141-78-6   |      |
| Ethylbenzene                | <b>5.0</b>      | ug/m3                    | 1.3  | 0.61 | 1.44 |          | 01/17/17 23:16 | 100-41-4   |      |
| 4-Ethyltoluene              | <b>3.3</b>      | ug/m3                    | 1.4  | 0.27 | 1.44 |          | 01/17/17 23:16 | 622-96-8   |      |
| n-Heptane                   | <b>2.1</b>      | ug/m3                    | 1.2  | 0.40 | 1.44 |          | 01/17/17 23:16 | 142-82-5   |      |
| Hexachloro-1,3-butadiene    | <b>&lt;0.94</b> | ug/m3                    | 3.1  | 0.94 | 1.44 |          | 01/17/17 23:16 | 87-68-3    |      |
| n-Hexane                    | <b>4.7</b>      | ug/m3                    | 1.0  | 0.51 | 1.44 |          | 01/17/17 23:16 | 110-54-3   |      |
| 2-Hexanone                  | <b>&lt;0.59</b> | ug/m3                    | 6.0  | 0.59 | 1.44 |          | 01/17/17 23:16 | 591-78-6   |      |
| Methylene Chloride          | <b>6.0</b>      | ug/m3                    | 5.1  | 0.78 | 1.44 |          | 01/17/17 23:16 | 75-09-2    |      |
| 4-Methyl-2-pentanone (MIBK) | <b>&lt;0.31</b> | ug/m3                    | 6.0  | 0.31 | 1.44 |          | 01/17/17 23:16 | 108-10-1   |      |
| Methyl-tert-butyl ether     | <b>&lt;0.44</b> | ug/m3                    | 5.3  | 0.44 | 1.44 |          | 01/17/17 23:16 | 1634-04-4  |      |
| Propylene                   | <b>&lt;0.19</b> | ug/m3                    | 0.50 | 0.19 | 1.44 |          | 01/17/17 23:16 | 115-07-1   |      |
| Styrene                     | <b>0.70J</b>    | ug/m3                    | 1.3  | 0.28 | 1.44 |          | 01/17/17 23:16 | 100-42-5   |      |
| 1,1,2,2-Tetrachloroethane   | <b>&lt;0.47</b> | ug/m3                    | 1.0  | 0.47 | 1.44 |          | 01/17/17 23:16 | 79-34-5    |      |
| Tetrachloroethene           | <b>&lt;0.40</b> | ug/m3                    | 0.99 | 0.40 | 1.44 |          | 01/17/17 23:16 | 127-18-4   |      |
| Tetrahydrofuran             | <b>&lt;0.17</b> | ug/m3                    | 0.86 | 0.17 | 1.44 |          | 01/17/17 23:16 | 109-99-9   |      |
| Toluene                     | <b>17.1</b>     | ug/m3                    | 1.1  | 0.22 | 1.44 |          | 01/17/17 23:16 | 108-88-3   |      |
| 1,2,4-Trichlorobenzene      | <b>&lt;1.3</b>  | ug/m3                    | 5.4  | 1.3  | 1.44 |          | 01/17/17 23:16 | 120-82-1   |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 Hedlund DX

Pace Project No.: 10376059

| Sample: VP-1 Lab ID: 10376059001 Collected: 01/12/17 02:15 Received: 01/17/17 09:40 Matrix: Air |         |       |      |      |      |          |                |             |      |
|-------------------------------------------------------------------------------------------------|---------|-------|------|------|------|----------|----------------|-------------|------|
| Parameters                                                                                      | Results | Units | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.     | Qual |
| TO15 MSV AIR Analytical Method: TO-15                                                           |         |       |      |      |      |          |                |             |      |
| 1,1,1-Trichloroethane                                                                           | <0.36   | ug/m3 | 1.6  | 0.36 | 1.44 |          | 01/17/17 23:16 | 71-55-6     |      |
| 1,1,2-Trichloroethane                                                                           | <0.35   | ug/m3 | 0.79 | 0.35 | 1.44 |          | 01/17/17 23:16 | 79-00-5     |      |
| Trichloroethene                                                                                 | <0.40   | ug/m3 | 0.79 | 0.40 | 1.44 |          | 01/17/17 23:16 | 79-01-6     |      |
| Trichlorofluoromethane                                                                          | 2.1     | ug/m3 | 1.6  | 0.19 | 1.44 |          | 01/17/17 23:16 | 75-69-4     |      |
| 1,1,2-Trichlorotrifluoroethane                                                                  | 0.61J   | ug/m3 | 2.3  | 0.43 | 1.44 |          | 01/17/17 23:16 | 76-13-1     |      |
| 1,2,4-Trimethylbenzene                                                                          | 11.7    | ug/m3 | 1.4  | 0.18 | 1.44 |          | 01/17/17 23:16 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                                                                          | 2.8     | ug/m3 | 1.4  | 0.26 | 1.44 |          | 01/17/17 23:16 | 108-67-8    |      |
| Vinyl acetate                                                                                   | <0.48   | ug/m3 | 1.0  | 0.48 | 1.44 |          | 01/17/17 23:16 | 108-05-4    |      |
| Vinyl chloride                                                                                  | <0.28   | ug/m3 | 0.37 | 0.28 | 1.44 |          | 01/17/17 23:16 | 75-01-4     |      |
| m&p-Xylene                                                                                      | 21.4    | ug/m3 | 2.5  | 1.1  | 1.44 |          | 01/17/17 23:16 | 179601-23-1 |      |
| o-Xylene                                                                                        | 7.6     | ug/m3 | 1.3  | 0.51 | 1.44 |          | 01/17/17 23:16 | 95-47-6     |      |

| Sample: VP-2 Lab ID: 10376059002 Collected: 01/12/17 02:55 Received: 01/17/17 09:40 Matrix: Air |         |       |      |      |      |          |                |            |      |
|-------------------------------------------------------------------------------------------------|---------|-------|------|------|------|----------|----------------|------------|------|
| Parameters                                                                                      | Results | Units | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.    | Qual |
| TO15 MSV AIR Analytical Method: TO-15                                                           |         |       |      |      |      |          |                |            |      |
| Acetone                                                                                         | 49.3    | ug/m3 | 3.4  | 1.2  | 1.39 |          | 01/18/17 00:19 | 67-64-1    |      |
| Benzene                                                                                         | 2.6     | ug/m3 | 0.45 | 0.17 | 1.39 |          | 01/18/17 00:19 | 71-43-2    |      |
| Bromodichloromethane                                                                            | <0.27   | ug/m3 | 1.9  | 0.27 | 1.39 |          | 01/18/17 00:19 | 75-27-4    |      |
| Bromoform                                                                                       | <1.3    | ug/m3 | 2.9  | 1.3  | 1.39 |          | 01/18/17 00:19 | 75-25-2    |      |
| Bromomethane                                                                                    | <0.43   | ug/m3 | 1.1  | 0.43 | 1.39 |          | 01/18/17 00:19 | 74-83-9    |      |
| 1,3-Butadiene                                                                                   | <0.24   | ug/m3 | 0.63 | 0.24 | 1.39 |          | 01/18/17 00:19 | 106-99-0   |      |
| 2-Butanone (MEK)                                                                                | 10.8    | ug/m3 | 4.2  | 0.32 | 1.39 |          | 01/18/17 00:19 | 78-93-3    |      |
| Carbon disulfide                                                                                | <0.14   | ug/m3 | 0.88 | 0.14 | 1.39 |          | 01/18/17 00:19 | 75-15-0    |      |
| Carbon tetrachloride                                                                            | <0.27   | ug/m3 | 0.89 | 0.27 | 1.39 |          | 01/18/17 00:19 | 56-23-5    |      |
| Chlorobenzene                                                                                   | <0.19   | ug/m3 | 1.3  | 0.19 | 1.39 |          | 01/18/17 00:19 | 108-90-7   |      |
| Chloroethane                                                                                    | <0.27   | ug/m3 | 0.75 | 0.27 | 1.39 |          | 01/18/17 00:19 | 75-00-3    |      |
| Chloroform                                                                                      | <0.26   | ug/m3 | 0.69 | 0.26 | 1.39 |          | 01/18/17 00:19 | 67-66-3    |      |
| Chloromethane                                                                                   | 0.71    | ug/m3 | 0.58 | 0.15 | 1.39 |          | 01/18/17 00:19 | 74-87-3    |      |
| Cyclohexane                                                                                     | 5.3     | ug/m3 | 0.97 | 0.44 | 1.39 |          | 01/18/17 00:19 | 110-82-7   |      |
| Dibromochloromethane                                                                            | <1.2    | ug/m3 | 2.4  | 1.2  | 1.39 |          | 01/18/17 00:19 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                                                                         | <1.1    | ug/m3 | 2.2  | 1.1  | 1.39 |          | 01/18/17 00:19 | 106-93-4   |      |
| 1,2-Dichlorobenzene                                                                             | <0.71   | ug/m3 | 1.7  | 0.71 | 1.39 |          | 01/18/17 00:19 | 95-50-1    |      |
| 1,3-Dichlorobenzene                                                                             | <0.74   | ug/m3 | 1.7  | 0.74 | 1.39 |          | 01/18/17 00:19 | 541-73-1   |      |
| 1,4-Dichlorobenzene                                                                             | <0.69   | ug/m3 | 1.7  | 0.69 | 1.39 |          | 01/18/17 00:19 | 106-46-7   |      |
| Dichlorodifluoromethane                                                                         | 3.9     | ug/m3 | 3.5  | 0.67 | 1.39 |          | 01/18/17 00:19 | 75-71-8    |      |
| 1,1-Dichloroethane                                                                              | <0.22   | ug/m3 | 1.1  | 0.22 | 1.39 |          | 01/18/17 00:19 | 75-34-3    |      |
| 1,2-Dichloroethane                                                                              | <0.28   | ug/m3 | 0.57 | 0.28 | 1.39 |          | 01/18/17 00:19 | 107-06-2   |      |
| 1,1-Dichloroethene                                                                              | <0.33   | ug/m3 | 1.1  | 0.33 | 1.39 |          | 01/18/17 00:19 | 75-35-4    |      |
| cis-1,2-Dichloroethene                                                                          | <0.34   | ug/m3 | 1.1  | 0.34 | 1.39 |          | 01/18/17 00:19 | 156-59-2   |      |
| trans-1,2-Dichloroethene                                                                        | <0.53   | ug/m3 | 1.1  | 0.53 | 1.39 |          | 01/18/17 00:19 | 156-60-5   |      |
| 1,2-Dichloropropane                                                                             | <0.38   | ug/m3 | 1.3  | 0.38 | 1.39 |          | 01/18/17 00:19 | 78-87-5    |      |
| cis-1,3-Dichloropropene                                                                         | <0.51   | ug/m3 | 1.3  | 0.51 | 1.39 |          | 01/18/17 00:19 | 10061-01-5 |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 7367 Hedlund DX

Pace Project No.: 10376059

**Sample: VP-2**      **Lab ID: 10376059002**      Collected: 01/12/17 02:55      Received: 01/17/17 09:40      Matrix: Air

| Parameters                     | Results | Units                    | LOQ  | LOD  | DF   | Prepared | Analyzed       | CAS No.     | Qual |
|--------------------------------|---------|--------------------------|------|------|------|----------|----------------|-------------|------|
| <b>TO15 MSV AIR</b>            |         | Analytical Method: TO-15 |      |      |      |          |                |             |      |
| trans-1,3-Dichloropropene      | <0.36   | ug/m3                    | 1.3  | 0.36 | 1.39 |          | 01/18/17 00:19 | 10061-02-6  |      |
| Dichlorotetrafluoroethane      | <0.43   | ug/m3                    | 2.0  | 0.43 | 1.39 |          | 01/18/17 00:19 | 76-14-2     |      |
| Ethyl acetate                  | 25.3    | ug/m3                    | 1.0  | 0.48 | 1.39 |          | 01/18/17 00:19 | 141-78-6    |      |
| Ethylbenzene                   | 6.0     | ug/m3                    | 1.2  | 0.59 | 1.39 |          | 01/18/17 00:19 | 100-41-4    |      |
| 4-Ethyltoluene                 | 4.2     | ug/m3                    | 1.4  | 0.26 | 1.39 |          | 01/18/17 00:19 | 622-96-8    |      |
| n-Heptane                      | 4.0     | ug/m3                    | 1.2  | 0.39 | 1.39 |          | 01/18/17 00:19 | 142-82-5    |      |
| Hexachloro-1,3-butadiene       | <0.90   | ug/m3                    | 3.0  | 0.90 | 1.39 |          | 01/18/17 00:19 | 87-68-3     |      |
| n-Hexane                       | 13.3    | ug/m3                    | 1.0  | 0.50 | 1.39 |          | 01/18/17 00:19 | 110-54-3    |      |
| 2-Hexanone                     | <0.57   | ug/m3                    | 5.8  | 0.57 | 1.39 |          | 01/18/17 00:19 | 591-78-6    |      |
| Methylene Chloride             | 52.4    | ug/m3                    | 4.9  | 0.75 | 1.39 |          | 01/18/17 00:19 | 75-09-2     |      |
| 4-Methyl-2-pentanone (MIBK)    | <0.30   | ug/m3                    | 5.8  | 0.30 | 1.39 |          | 01/18/17 00:19 | 108-10-1    |      |
| Methyl-tert-butyl ether        | <0.42   | ug/m3                    | 5.1  | 0.42 | 1.39 |          | 01/18/17 00:19 | 1634-04-4   |      |
| Propylene                      | <0.19   | ug/m3                    | 0.49 | 0.19 | 1.39 |          | 01/18/17 00:19 | 115-07-1    |      |
| Styrene                        | 0.80J   | ug/m3                    | 1.2  | 0.27 | 1.39 |          | 01/18/17 00:19 | 100-42-5    |      |
| 1,1,2,2-Tetrachloroethane      | <0.46   | ug/m3                    | 0.97 | 0.46 | 1.39 |          | 01/18/17 00:19 | 79-34-5     |      |
| Tetrachloroethene              | <0.39   | ug/m3                    | 0.96 | 0.39 | 1.39 |          | 01/18/17 00:19 | 127-18-4    |      |
| Tetrahydrofuran                | <0.17   | ug/m3                    | 0.83 | 0.17 | 1.39 |          | 01/18/17 00:19 | 109-99-9    |      |
| Toluene                        | 58.7    | ug/m3                    | 1.1  | 0.21 | 1.39 |          | 01/18/17 00:19 | 108-88-3    |      |
| 1,2,4-Trichlorobenzene         | <1.3    | ug/m3                    | 5.2  | 1.3  | 1.39 |          | 01/18/17 00:19 | 120-82-1    |      |
| 1,1,1-Trichloroethane          | <0.34   | ug/m3                    | 1.5  | 0.34 | 1.39 |          | 01/18/17 00:19 | 71-55-6     |      |
| 1,1,2-Trichloroethane          | <0.34   | ug/m3                    | 0.76 | 0.34 | 1.39 |          | 01/18/17 00:19 | 79-00-5     |      |
| Trichloroethene                | <0.38   | ug/m3                    | 0.76 | 0.38 | 1.39 |          | 01/18/17 00:19 | 79-01-6     |      |
| Trichlorofluoromethane         | 1.4J    | ug/m3                    | 1.6  | 0.18 | 1.39 |          | 01/18/17 00:19 | 75-69-4     |      |
| 1,1,2-Trichlorotrifluoroethane | <0.42   | ug/m3                    | 2.2  | 0.42 | 1.39 |          | 01/18/17 00:19 | 76-13-1     |      |
| 1,2,4-Trimethylbenzene         | 15.9    | ug/m3                    | 1.4  | 0.17 | 1.39 |          | 01/18/17 00:19 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene         | 3.7     | ug/m3                    | 1.4  | 0.25 | 1.39 |          | 01/18/17 00:19 | 108-67-8    |      |
| Vinyl acetate                  | 3.0     | ug/m3                    | 1.0  | 0.46 | 1.39 |          | 01/18/17 00:19 | 108-05-4    |      |
| Vinyl chloride                 | <0.27   | ug/m3                    | 0.36 | 0.27 | 1.39 |          | 01/18/17 00:19 | 75-01-4     |      |
| m&p-Xylene                     | 25.3    | ug/m3                    | 2.5  | 1.1  | 1.39 |          | 01/18/17 00:19 | 179601-23-1 |      |
| o-Xylene                       | 9.5     | ug/m3                    | 1.2  | 0.49 | 1.39 |          | 01/18/17 00:19 | 95-47-6     |      |

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 Hedlund DX

Pace Project No.: 10376059

QC Batch: 456042

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 10376059001, 10376059002

METHOD BLANK: 2496434

Matrix: Air

Associated Lab Samples: 10376059001, 10376059002

| Parameter                      | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | <0.25        | 1.1             | 01/17/17 16:40 |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | <0.33        | 0.70            | 01/17/17 16:40 |            |
| 1,1,2-Trichloroethane          | ug/m3 | <0.25        | 0.55            | 01/17/17 16:40 |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.30        | 1.6             | 01/17/17 16:40 |            |
| 1,1-Dichloroethane             | ug/m3 | <0.16        | 0.82            | 01/17/17 16:40 |            |
| 1,1-Dichloroethene             | ug/m3 | <0.24        | 0.81            | 01/17/17 16:40 |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | <0.91        | 3.8             | 01/17/17 16:40 |            |
| 1,2,4-Trimethylbenzene         | ug/m3 | <0.12        | 1.0             | 01/17/17 16:40 |            |
| 1,2-Dibromoethane (EDB)        | ug/m3 | <0.77        | 1.6             | 01/17/17 16:40 |            |
| 1,2-Dichlorobenzene            | ug/m3 | <0.51        | 1.2             | 01/17/17 16:40 |            |
| 1,2-Dichloroethane             | ug/m3 | <0.20        | 0.41            | 01/17/17 16:40 |            |
| 1,2-Dichloropropane            | ug/m3 | <0.27        | 0.94            | 01/17/17 16:40 |            |
| 1,3,5-Trimethylbenzene         | ug/m3 | <0.18        | 1.0             | 01/17/17 16:40 |            |
| 1,3-Butadiene                  | ug/m3 | <0.18        | 0.45            | 01/17/17 16:40 |            |
| 1,3-Dichlorobenzene            | ug/m3 | <0.53        | 1.2             | 01/17/17 16:40 |            |
| 1,4-Dichlorobenzene            | ug/m3 | <0.50        | 1.2             | 01/17/17 16:40 |            |
| 2-Butanone (MEK)               | ug/m3 | <0.23        | 3.0             | 01/17/17 16:40 |            |
| 2-Hexanone                     | ug/m3 | <0.41        | 4.2             | 01/17/17 16:40 |            |
| 4-Ethyltoluene                 | ug/m3 | <0.19        | 1.0             | 01/17/17 16:40 |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/m3 | <0.22        | 4.2             | 01/17/17 16:40 |            |
| Acetone                        | ug/m3 | <0.83        | 2.4             | 01/17/17 16:40 |            |
| Benzene                        | ug/m3 | <0.12        | 0.32            | 01/17/17 16:40 |            |
| Bromodichloromethane           | ug/m3 | <0.19        | 1.4             | 01/17/17 16:40 |            |
| Bromoform                      | ug/m3 | <0.90        | 2.1             | 01/17/17 16:40 |            |
| Bromomethane                   | ug/m3 | <0.31        | 0.79            | 01/17/17 16:40 |            |
| Carbon disulfide               | ug/m3 | <0.10        | 0.63            | 01/17/17 16:40 |            |
| Carbon tetrachloride           | ug/m3 | <0.19        | 0.64            | 01/17/17 16:40 |            |
| Chlorobenzene                  | ug/m3 | <0.13        | 0.94            | 01/17/17 16:40 |            |
| Chloroethane                   | ug/m3 | <0.19        | 0.54            | 01/17/17 16:40 |            |
| Chloroform                     | ug/m3 | <0.19        | 0.50            | 01/17/17 16:40 |            |
| Chloromethane                  | ug/m3 | <0.11        | 0.42            | 01/17/17 16:40 |            |
| cis-1,2-Dichloroethene         | ug/m3 | <0.25        | 0.81            | 01/17/17 16:40 |            |
| cis-1,3-Dichloropropene        | ug/m3 | <0.37        | 0.92            | 01/17/17 16:40 |            |
| Cyclohexane                    | ug/m3 | <0.32        | 0.70            | 01/17/17 16:40 |            |
| Dibromochloromethane           | ug/m3 | <0.86        | 1.7             | 01/17/17 16:40 |            |
| Dichlorodifluoromethane        | ug/m3 | <0.48        | 2.5             | 01/17/17 16:40 |            |
| Dichlorotetrafluoroethane      | ug/m3 | <0.31        | 1.4             | 01/17/17 16:40 |            |
| Ethyl acetate                  | ug/m3 | <0.35        | 0.73            | 01/17/17 16:40 |            |
| Ethylbenzene                   | ug/m3 | <0.42        | 0.88            | 01/17/17 16:40 |            |
| Hexachloro-1,3-butadiene       | ug/m3 | <0.65        | 2.2             | 01/17/17 16:40 |            |
| m&p-Xylene                     | ug/m3 | <0.79        | 1.8             | 01/17/17 16:40 |            |

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## QUALITY CONTROL DATA

Project: 7367 Hedlund DX

Pace Project No.: 10376059

METHOD BLANK: 2496434

Matrix: Air

Associated Lab Samples: 10376059001, 10376059002

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Methyl-tert-butyl ether   | ug/m3 | <0.30        | 3.7             | 01/17/17 16:40 |            |
| Methylene Chloride        | ug/m3 | <0.54        | 3.5             | 01/17/17 16:40 |            |
| n-Heptane                 | ug/m3 | <0.28        | 0.83            | 01/17/17 16:40 |            |
| n-Hexane                  | ug/m3 | <0.36        | 0.72            | 01/17/17 16:40 |            |
| o-Xylene                  | ug/m3 | <0.35        | 0.88            | 01/17/17 16:40 |            |
| Propylene                 | ug/m3 | <0.14        | 0.35            | 01/17/17 16:40 |            |
| Styrene                   | ug/m3 | <0.19        | 0.87            | 01/17/17 16:40 |            |
| Tetrachloroethene         | ug/m3 | <0.28        | 0.69            | 01/17/17 16:40 |            |
| Tetrahydrofuran           | ug/m3 | <0.12        | 0.60            | 01/17/17 16:40 |            |
| Toluene                   | ug/m3 | <0.15        | 0.77            | 01/17/17 16:40 |            |
| trans-1,2-Dichloroethene  | ug/m3 | <0.38        | 0.81            | 01/17/17 16:40 |            |
| trans-1,3-Dichloropropene | ug/m3 | <0.26        | 0.92            | 01/17/17 16:40 |            |
| Trichloroethene           | ug/m3 | <0.28        | 0.55            | 01/17/17 16:40 |            |
| Trichlorofluoromethane    | ug/m3 | <0.13        | 1.1             | 01/17/17 16:40 |            |
| Vinyl acetate             | ug/m3 | <0.33        | 0.72            | 01/17/17 16:40 |            |
| Vinyl chloride            | ug/m3 | <0.20        | 0.26            | 01/17/17 16:40 |            |

LABORATORY CONTROL SAMPLE: 2496435

| Parameter                      | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | 58.2        | 54.7       | 94        | 60-143       |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | 74.7        | 81.4       | 109       | 49-150       |            |
| 1,1,2-Trichloroethane          | ug/m3 | 59.3        | 57.5       | 97        | 57-149       |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 81.8        | 75.1       | 92        | 66-131       |            |
| 1,1-Dichloroethane             | ug/m3 | 43.6        | 40.9       | 94        | 62-139       |            |
| 1,1-Dichloroethene             | ug/m3 | 42.7        | 39.1       | 92        | 62-135       |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | 74.7        | 130        | 174       | 55-146       | L1,SS      |
| 1,2,4-Trimethylbenzene         | ug/m3 | 51.5        | 59.7       | 116       | 57-143       |            |
| 1,2-Dibromoethane (EDB)        | ug/m3 | 83.6        | 83.9       | 100       | 63-150       |            |
| 1,2-Dichlorobenzene            | ug/m3 | 63.6        | 81.9       | 129       | 57-141       |            |
| 1,2-Dichloroethane             | ug/m3 | 44          | 42.1       | 96        | 61-144       |            |
| 1,2-Dichloropropane            | ug/m3 | 50.7        | 48.8       | 96        | 63-144       |            |
| 1,3,5-Trimethylbenzene         | ug/m3 | 51.5        | 58.9       | 115       | 54-147       |            |
| 1,3-Butadiene                  | ug/m3 | 23.4        | 21.7       | 93        | 61-140       |            |
| 1,3-Dichlorobenzene            | ug/m3 | 61.7        | 80.1       | 130       | 51-150       |            |
| 1,4-Dichlorobenzene            | ug/m3 | 63.6        | 78.8       | 124       | 57-143       |            |
| 2-Butanone (MEK)               | ug/m3 | 32.4        | 29.0       | 89        | 66-144       |            |
| 2-Hexanone                     | ug/m3 | 44.6        | 46.5       | 104       | 63-147       |            |
| 4-Ethyltoluene                 | ug/m3 | 49.5        | 59.1       | 119       | 56-150       |            |
| 4-Methyl-2-pentanone (MIBK)    | ug/m3 | 44.6        | 44.3       | 99        | 58-150       |            |
| Acetone                        | ug/m3 | 25.1        | 24.0       | 96        | 46-140       |            |
| Benzene                        | ug/m3 | 34.7        | 31.8       | 92        | 62-141       |            |
| Bromodichloromethane           | ug/m3 | 72.2        | 70.6       | 98        | 58-149       |            |
| Bromoform                      | ug/m3 | 116         | 136        | 118       | 61-150       |            |

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: 7367 Hedlund DX

Pace Project No.: 10376059

LABORATORY CONTROL SAMPLE: 2496435

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromomethane              | ug/m3 | 39.1        | 38.1       | 98        | 58-136       |            |
| Carbon disulfide          | ug/m3 | 33.2        | 35.7       | 107       | 59-135       |            |
| Carbon tetrachloride      | ug/m3 | 68.4        | 75.2       | 110       | 60-149       |            |
| Chlorobenzene             | ug/m3 | 50.1        | 49.7       | 99        | 60-150       |            |
| Chloroethane              | ug/m3 | 26.3        | 27.5       | 105       | 61-136       |            |
| Chloroform                | ug/m3 | 51.1        | 53.2       | 104       | 65-138       |            |
| Chloromethane             | ug/m3 | 21.4        | 20.5       | 96        | 62-133       |            |
| cis-1,2-Dichloroethene    | ug/m3 | 43.9        | 41.9       | 95        | 65-139       |            |
| cis-1,3-Dichloropropene   | ug/m3 | 51.7        | 49.9       | 97        | 61-149       |            |
| Cyclohexane               | ug/m3 | 37.1        | 35.2       | 95        | 64-134       |            |
| Dibromochloromethane      | ug/m3 | 97          | 94.5       | 97        | 59-150       |            |
| Dichlorodifluoromethane   | ug/m3 | 52.8        | 49.8       | 94        | 63-134       |            |
| Dichlorotetrafluoroethane | ug/m3 | 69.6        | 66.8       | 96        | 62-134       |            |
| Ethyl acetate             | ug/m3 | 37.7        | 37.4       | 99        | 55-146       |            |
| Ethylbenzene              | ug/m3 | 47.7        | 46.7       | 98        | 59-149       |            |
| Hexachloro-1,3-butadiene  | ug/m3 | 109         | 156        | 143       | 42-150       | SS         |
| m&p-Xylene                | ug/m3 | 47.7        | 48.7       | 102       | 59-146       |            |
| Methyl-tert-butyl ether   | ug/m3 | 38.8        | 37.2       | 96        | 64-135       |            |
| Methylene Chloride        | ug/m3 | 39.2        | 35.4       | 90        | 64-128       |            |
| n-Heptane                 | ug/m3 | 44.2        | 41.4       | 94        | 64-140       |            |
| n-Hexane                  | ug/m3 | 38.7        | 32.9       | 85        | 50-138       |            |
| o-Xylene                  | ug/m3 | 47.2        | 47.2       | 100       | 54-149       |            |
| Propylene                 | ug/m3 | 19.2        | 16.5       | 86        | 58-135       |            |
| Styrene                   | ug/m3 | 45.5        | 49.2       | 108       | 54-150       |            |
| Tetrachloroethene         | ug/m3 | 72.4        | 69.9       | 97        | 60-142       |            |
| Tetrahydrofuran           | ug/m3 | 33          | 31.5       | 95        | 56-143       |            |
| Toluene                   | ug/m3 | 41.4        | 38.0       | 92        | 61-138       |            |
| trans-1,2-Dichloroethene  | ug/m3 | 41.9        | 43.2       | 103       | 67-137       |            |
| trans-1,3-Dichloropropene | ug/m3 | 48.4        | 52.0       | 107       | 59-145       |            |
| Trichloroethene           | ug/m3 | 57.9        | 55.3       | 96        | 60-144       |            |
| Trichlorofluoromethane    | ug/m3 | 58.8        | 53.8       | 91        | 59-134       |            |
| Vinyl acetate             | ug/m3 | 40.4        | 36.8       | 91        | 55-143       |            |
| Vinyl chloride            | ug/m3 | 27          | 25.9       | 96        | 63-135       |            |

SAMPLE DUPLICATE: 2497269

| Parameter                      | Units | 10376052001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,1,1-Trichloroethane          | ug/m3 | ND                 | <0.37      |     | 25      |            |
| 1,1,2,2-Tetrachloroethane      | ug/m3 | ND                 | <0.49      |     | 25      |            |
| 1,1,2-Trichloroethane          | ug/m3 | ND                 | <0.37      |     | 25      |            |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | ND                 | <0.45      |     | 25      |            |
| 1,1-Dichloroethane             | ug/m3 | ND                 | <0.23      |     | 25      |            |
| 1,1-Dichloroethene             | ug/m3 | ND                 | <0.35      |     | 25      |            |
| 1,2,4-Trichlorobenzene         | ug/m3 | ND                 | <1.4       |     | 25      |            |
| 1,2,4-Trimethylbenzene         | ug/m3 | ND                 | 1.1J       |     | 25      |            |

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## QUALITY CONTROL DATA

Project: 7367 Hedlund DX

Pace Project No.: 10376059

SAMPLE DUPLICATE: 2497269

| Parameter                   | Units | 10376052001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|-----------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,2-Dibromoethane (EDB)     | ug/m3 | ND                    | <1.2          |     | 25         |            |
| 1,2-Dichlorobenzene         | ug/m3 | ND                    | <0.76         |     | 25         |            |
| 1,2-Dichloroethane          | ug/m3 | ND                    | <0.31         |     | 25         |            |
| 1,2-Dichloropropane         | ug/m3 | ND                    | <0.40         |     | 25         |            |
| 1,3,5-Trimethylbenzene      | ug/m3 | ND                    | <0.27         |     | 25         |            |
| 1,3-Butadiene               | ug/m3 | ND                    | <0.26         |     | 25         |            |
| 1,3-Dichlorobenzene         | ug/m3 | ND                    | <0.79         |     | 25         |            |
| 1,4-Dichlorobenzene         | ug/m3 | ND                    | <0.74         |     | 25         |            |
| 2-Butanone (MEK)            | ug/m3 | 9.2                   | 9.7           | 5   | 25         |            |
| 2-Hexanone                  | ug/m3 | ND                    | <0.61         |     | 25         |            |
| 4-Ethyltoluene              | ug/m3 | ND                    | <0.28         |     | 25         |            |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | ND                    | <0.32         |     | 25         |            |
| Acetone                     | ug/m3 | 19.9                  | 21.2          | 6   | 25         |            |
| Benzene                     | ug/m3 | 1.6                   | 1.6           | 2   | 25         |            |
| Bromodichloromethane        | ug/m3 | ND                    | <0.29         |     | 25         |            |
| Bromoform                   | ug/m3 | ND                    | <1.3          |     | 25         |            |
| Bromomethane                | ug/m3 | ND                    | <0.46         |     | 25         |            |
| Carbon disulfide            | ug/m3 | ND                    | <0.15         |     | 25         |            |
| Carbon tetrachloride        | ug/m3 | ND                    | <0.29         |     | 25         |            |
| Chlorobenzene               | ug/m3 | ND                    | <0.20         |     | 25         |            |
| Chloroethane                | ug/m3 | ND                    | <0.29         |     | 25         |            |
| Chloroform                  | ug/m3 | ND                    | <0.28         |     | 25         |            |
| Chloromethane               | ug/m3 | 1.1                   | 1.1           | 0   | 25         |            |
| cis-1,2-Dichloroethene      | ug/m3 | ND                    | <0.37         |     | 25         |            |
| cis-1,3-Dichloropropene     | ug/m3 | ND                    | <0.55         |     | 25         |            |
| Cyclohexane                 | ug/m3 | ND                    | 0.87J         |     | 25         |            |
| Dibromochloromethane        | ug/m3 | ND                    | <1.3          |     | 25         |            |
| Dichlorodifluoromethane     | ug/m3 | ND                    | 2.7J          |     | 25         |            |
| Dichlorotetrafluoroethane   | ug/m3 | ND                    | <0.46         |     | 25         |            |
| Ethyl acetate               | ug/m3 | ND                    | <0.52         |     | 25         |            |
| Ethylbenzene                | ug/m3 | ND                    | 0.71J         |     | 25         |            |
| Hexachloro-1,3-butadiene    | ug/m3 | ND                    | <0.97         |     | 25         |            |
| m&p-Xylene                  | ug/m3 | ND                    | 2.4J          |     | 25         |            |
| Methyl-tert-butyl ether     | ug/m3 | ND                    | <0.45         |     | 25         |            |
| Methylene Chloride          | ug/m3 | 24.5                  | 25.8          | 5   | 25         |            |
| n-Heptane                   | ug/m3 | ND                    | 1.1J          |     | 25         |            |
| n-Hexane                    | ug/m3 | 6.9                   | 7.4           | 6   | 25         |            |
| o-Xylene                    | ug/m3 | ND                    | 1.0J          |     | 25         |            |
| Propylene                   | ug/m3 | ND                    | <0.20         |     | 25         |            |
| Styrene                     | ug/m3 | ND                    | <0.29         |     | 25         |            |
| Tetrachloroethene           | ug/m3 | ND                    | <0.41         |     | 25         |            |
| Tetrahydrofuran             | ug/m3 | 3.3                   | 3.7           | 9   | 25         |            |
| Toluene                     | ug/m3 | 4.0                   | 4.2           | 5   | 25         |            |
| trans-1,2-Dichloroethene    | ug/m3 | ND                    | <0.57         |     | 25         |            |
| trans-1,3-Dichloropropene   | ug/m3 | ND                    | <0.39         |     | 25         |            |
| Trichloroethene             | ug/m3 | ND                    | <0.41         |     | 25         |            |
| Trichlorofluoromethane      | ug/m3 | ND                    | 1.6J          |     | 25         |            |

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## QUALITY CONTROL DATA

Project: 7367 Hedlund DX

Pace Project No.: 10376059

SAMPLE DUPLICATE: 2497269

| Parameter      | Units | 10376052001<br>Result | Dup<br>Result | RPD | Max<br>RPD | Qualifiers |
|----------------|-------|-----------------------|---------------|-----|------------|------------|
| Vinyl acetate  | ug/m3 | ND                    | <0.49         |     | 25         |            |
| Vinyl chloride | ug/m3 | ND                    | <0.29         |     | 25         |            |

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## QUALIFIERS

Project: 7367 Hedlund DX

Pace Project No.: 10376059

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### DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

### ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

SS This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 7367 Hedlund DX

Pace Project No.: 10376059

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10376059001 | VP-1      | TO-15           | 456042   |                   |                  |
| 10376059002 | VP-2      | TO-15           | 456042   |                   |                  |

## REPORT OF LABORATORY ANALYSIS

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ORIGINAL

|                                                                                  |                                                     |                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
|  | Document Name:<br>Air Sample Condition Upon Receipt | Document Revised: 26APR2016<br>Page 1 of 1          |
|                                                                                  | Document No.:<br>F-MN-A-106-rev.11                  | Issuing Authority:<br>Pace Minnesota Quality Office |
|                                                                                  |                                                     |                                                     |

**Air Sample Condition  
Upon Receipt**

Client Name:

REI

Project #:

WO#: 10376059



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

Tracking Number: 6637 5040 9150

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

Optional: Proj. Due Date:      Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: \_\_\_\_\_

Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): 7      Corrected Temp (°C): 10

Thermom. Used: ☐ B88A912167504 ☐ B88A0143310098

☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C

Correction Factor: 0

Date & Initials of Person Examining Contents: 2/17/17

Type of Ice Received ☐ Blue ☐ Wet ☒ None

Comments:

|                                                              |                                                                                                  |     |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----|
| 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished?                               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name and/or Signature on COC?                        | <input type="checkbox"/> Yes <input checked="" 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.  |
| Short Hold Time Analysis (<72 hr)?                           | <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 checked="" type="checkbox"/> Yes <input 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 |     |
| Containers Intact?                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 10. |
| Media: Air Can      Airbag      Filter      TDT      Passive |                                                                                                  | 11. |
| Sample Labels Match COC?                                     | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

| Samples Received: |        |                    | Samples Received: |        |                    |
|-------------------|--------|--------------------|-------------------|--------|--------------------|
| Canisters         |        |                    | Canisters         |        |                    |
| Sample Number     | Can ID | Flow Controller ID | Sample Number     | Can ID | Flow Controller ID |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |
|                   |        |                    |                   |        |                    |

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? ☐ Yes ☐ No

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review:

Carolynne Trout

Date: 1/18/17

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