

# Site Investigation Report

Luedtke Property  
11 W Wisconsin Avenue  
Tomahawk, Wisconsin

July 23, 2018  
by METCO

WDNR File Reference #: 03-35-554426  
PECFA Claim #: 54487-1334-11



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This document was prepared by:

A handwritten signature in black ink, appearing to read "Jason T. Powell", written over a horizontal line.

Jason T. Powell  
Staff Scientist

A handwritten signature in black ink, appearing to read "Ronald J. Anderson", written over a horizontal line.

Ronald J. Anderson, P.G.  
Senior Hydrogeologist/Project Manager



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July 23, 2018

BRRTS #: 03-35-554426  
PECFA #: 54487-1334-11

Todd Luedtke  
426 Crowfoot Avenue  
Fond du Lac, WI 54935

Dear Mr. Luedtke,

Enclosed is our "Site Investigation Report" concerning the Luedtke Property site at 11 W. Wisconsin Avenue in Tomahawk, Wisconsin. This report presents the complete data from all investigation activities.

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Although the extent and degree of petroleum contamination is defined to a practical extent, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis prior to granting closure. Per state response to this report, METCO will proceed with this project.

We appreciate the opportunity to be of service to you on this project. Should you have any questions or require additional information, do not hesitate to contact our La Crosse office.

Sincerely,

Jason T. Powell  
Staff Scientist

C: Carrie Stoltz – WDNR

## **EXECUTIVE SUMMARY**

A gas station and repair shop (Country Co-op) operated on the subject property from approximately the 1940s until the mid-1980s. After the gas station closed, the building was converted to retail space and has been used for retail/office purposes since then.

In 1986, four 10,000-gallon leaded gasoline USTs were removed from the subject property.

On October 30, 2009, petroleum odors were noticed in the basement of the movie theater located on the adjacent property to the west and reported to the Tomahawk Fire Department. On November 2, 2009, John Sager of the WDNR visited the site to observe the petroleum odors in the basement and investigate possible petroleum sources. No petroleum sources were identified at that time. Further investigation by the WDNR revealed that four 10,000-gallon leaded gasoline USTs were registered on the Wisconsin tank database for the Luedtke Property at 11 W Wisconsin Avenue. Since the former gasoline tanks from the Luedtke Property were suspected to be the source of the petroleum release, the WDNR required that a site investigation be completed.

Numerous other LUST, ERP, and Spill sites exist in the City of Tomahawk. The closest being Les' Standard, which is located approximately 125 feet to the northeast of the subject property. The Les' Standard property is an active gas station and closed LUST site (BRRTS# 03-35-000361). Several Spill cases are also associated with the Les' Standard property.

The site investigation consisted of a Geoprobe Project, a Drilling Project, and two rounds of groundwater sampling. The results of the investigation clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Native unconsolidated materials in this area generally consist of the following in downward stratigraphic order. From surface to approximately 15 feet bgs exists a brown to gray to tan fine to coarse grained sand with gravel. From approximately 15 feet bgs and extending to approximately 24 feet bgs exists a gray silt to sandy silt. At approximately 24 feet bgs and extending to at least 30 feet bgs exists a tan very fine to fine grained sand to silty sand.
- Bedrock was not encountered during the site investigation, but granite bedrock is expected to exist at approximately 50-100 feet bgs, based on local well construction reports.
- According to data collected from the monitoring wells, the depth to groundwater ranges from 6.43 to 8.00 feet bgs depending on well location and time of year. The depth to water in the piezometer ranged from 8.25 to 9.15 feet bgs depending on the time of year. According to the watertable measurements collected during groundwater sampling, local horizontal groundwater flow in the immediate area of the subject property is generally toward the west to northwest.
- Three areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL's (Lead only), exist in the area of the removed UST's, encompassing soil borings G-4, G-5, and G-8. These circular shaped areas appear to measure up to 14 feet in diameter and up to 4-6 feet thick.
- A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the watertable in the area of the removed UST's and has migrated toward the northwest. This plume is approximately 169 feet long and up to 105 feet wide at its widest point.
- Based on the most recent groundwater analytical results, four monitoring/piezometer wells (MW-1, MW-2, MW-8, and PZ-1) show NR140 ES and/or PAL exceedances.

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Luedtke Property**

- Based on the receptor survey, there does not appear to be the potential of contaminant migration along any utility corridors, risk of vapor intrusion to any buildings, or risk to any private wells, or surface waters.

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Although the extent and degree of petroleum contamination is defined to a practical extent, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis. Per state response to this report, METCO will proceed with this project.

## **LIST OF ACRONYMS**

**AST** - Aboveground Storage Tank  
**ASTM** - American Society for Testing and Materials  
**Cd** - Cadmium  
**DOT** - Department of Transportation  
**DRO** - Diesel Range Organics  
**ES** - Enforcement Standards  
**gpm** - gallons per minute  
**GRO** - Gasoline Range Organics  
**HNU** - brand name for Photoionization Detector  
**ID** - inside-diameter  
**LAST** - Leaking Aboveground Storage Tank  
**LUST** - Leaking Underground Storage Tank  
**MSL** - Mean Sea Level  
**MTBE** - Methyl-tert-butyl ether  
**MW** - Monitoring Well  
**NIOSH** - National Institute for Occupational Safety & Health  
**NR** - Natural Resources  
**OD** - outside-diameter  
**PAH** - Polynuclear Aromatic Hydrocarbons  
**PAL** - Preventive Action Limits  
**Pb** - Lead  
**PECFA** - Petroleum Environmental Cleanup Fund  
**PID** - Photoionization Detector  
**POTW** - Publicly Owned Treatment Works  
**ppb ug/kg** - parts per billion  
**ppm mg/kg** - parts per million  
**psi** - pounds per square inch  
**PVC** - Polyvinyl Chloride  
**PVOC** - Petroleum Volatile Organic Compounds  
**RAP** - Remedial Action Plan  
**scfm** - standard cubic feet per minute  
**SVE** - Soil Vapor Extraction  
**USCS** - Unified Soil Classification System  
**USGS** - United States Geological Survey  
**UST** - Underground Storage Tank  
**VOC** - Volatile Organic Compounds  
**WDNR** - Wisconsin Department of Natural Resources  
**WPDES** - Wisconsin Pollutant Discharge Elimination System

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## **1.0 INTRODUCTION AND BACKGROUND**

A Site Investigation is required by the Wisconsin Department of Natural Resources (WDNR) by authority of Section 292.11 of the Wisconsin Statutes. According to the WDNR, any soil that tests more than 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests more than the Chapter NR720 Groundwater Residual Contaminant Levels (RCLs), Direct Contact RCLs, and/or Soil Saturation (C-sat) Values may require possible remediation. Any groundwater that tests more than the Preventive Action Limits (PAL) or Enforcement Standards (ES) for compounds listed in Chapter NR140 Groundwater Quality Standards requires an investigation and possible remediation. For a further explanation of WDNR rules and regulations, see Appendix E.

This report presents data collected during the Site Investigation. The purpose of this investigation was to:

- 1) Determine the extent and degree of petroleum contamination in the environment.
- 2) Determine if any risks exist to the environment or public health.
- 3) As conditions warrant, bring the site to closure.

### **1.1 Responsible Party Information**

Todd Luedtke  
426 Crowfoot Avenue  
Fond du Lac, WI 54935  
(920) 602-4910

### **1.2 Consultant Information**

#### **Consultant**

METCO  
Ronald J. Anderson P.G.  
Jason T. Powell  
709 Gillette Street, Suite 3  
La Crosse, WI 54603  
(608) 781-8879

#### **Subcontractors**

Geiss Soil & Samples, LLC  
W4490 Pope Road  
Merrill, WI 54452  
(715) 539-3928

Synergy Environmental Lab  
1990 Prospect Court  
Appleton, WI 54914  
(920) 830-2455

Fauerbach Surveying & Engineering  
P.O. Box 140  
Hillsboro, WI 54634  
(608) 489-3363

DKS Transport Services, LLC  
N7349 548<sup>th</sup> Street  
Menomonie, WI 54751  
(715) 556-2604

**Site Investigation Report - METCO  
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### **1.3 Site Location**

Site Address:

11 W. Wisconsin Avenue  
Tomahawk, Wisconsin

Latitude and Longitude:  
45° 28' 15" N and 89° 43' 47" W

WTM Coordinates:  
541123, 555277

Township/Range:  
SW ¼, SW ¼, Section 34, Township 35 North, Range 6 East, Lincoln County

### **1.4 Site History**

A gas station and repair shop (Country Co-op) operated on the subject property from approximately the 1940s until the mid-1980s. After the gas station closed, the building was converted to retail space and has been used for retail/office purposes since then.

In 1986, four 10,000-gallon leaded gasoline USTs were removed from the subject property.

On October 30, 2009, petroleum odors were noticed in the basement of the movie theater located on the adjacent property to the west and reported to the Tomahawk Fire Department. On November 2, 2009, John Sager of the WDNR visited the site to observe the petroleum odors in the basement and investigate possible petroleum sources. No petroleum sources were identified at that time. Further investigation by the WDNR revealed that four 10,000-gallon leaded gasoline USTs were registered on the Wisconsin tank database for the Luedtke Property at 11 W Wisconsin Avenue. Since the former gasoline tanks from the Luedtke Property were suspected to be the source of the petroleum release, the WDNR required that a site investigation be completed.

Numerous other LUST, ERP, and Spill sites exist in the City of Tomahawk. The closest being Les' Standard, which is located approximately 125 feet to the northeast of the subject property. The Les' Standard property is an active gas station and closed LUST site (BRRTS# 03-35-000361). Several Spill cases are also associated with the Les' Standard property.

## **2.0 GEOLOGY AND RECEPTORS**

### **2.1 Regional and Local Geology and Hydrogeology**

#### **Topography and Regional Setting**

According to the USGS Hydrologic Atlas, Tomahawk is located in the southern portion of the Upper Wisconsin River Basin. The topography of this area is characterized by pitted outwash plains with a poorly developed drainage network as indicated by the numerous lakes in the area.



## **Site Investigation Report - METCO Luedtke Property**

The elevation of the site is approximately 1,450 feet above Mean Sea Level (MSL). See Appendix A for site location.

### **Soil and Bedrock**

Soil samples were described by METCO field personnel. Assisting literature included the Hydrologic Atlas, Wisconsin Geologic Logs, and Wisconsin Well Constructor Reports.

Local unconsolidated materials generally consist of the following in downward stratigraphic order:

- 1) Fill material consisting of fine to coarse grained sand with gravel and bricks was encountered in soil boring G-1 from surface to 12 feet bgs.
- 2) From surface to depths ranging from 13 to 16 feet bgs exists a brown to gray to tan fine to coarse grained sand with gravel.
- 3) At depths ranging from 13 to 16 feet bgs and extending to approximately 24 feet bgs exists a gray silt to sandy silt.
- 4) At approximately 24 feet and extending to at least 30 feet bgs exists a tan very fine to fine grained sand to silty sand.

Bedrock was not encountered during the site investigation, but granite bedrock is expected to exist at approximately 50-100 feet bgs, based on local well construction reports.

No other characteristics concerning the local sediments such as structures, voids, layering, lenses or secondary permeability are documented at this time.

### **Hydrogeology**

According to data collected from the monitoring wells, the depth to groundwater ranges from 6.43 to 8.00 feet bgs depending on well location and time of year. The depth to water in the piezometer ranged from 8.25 to 9.15 feet bgs depending on the time of year.

According to the watertable measurements collected during groundwater sampling, local horizontal groundwater flow in the immediate area of the subject property is generally toward the west to northwest. Groundwater Flow Direction Maps are presented in Section 6.

## **2.2 Receptors**

### **Buildings, Basements, Sumps, and Utility Corridors**

The extent of petroleum contamination in groundwater exceeding the NR140 ES and/or PAL appears to come into contact with a water main, a sanitary sewer main, natural gas lines, and a buried electric line. The extent of petroleum contamination in unsaturated soil exceeding the NR720 Groundwater RCL's (Lead only) also comes into contact with a natural gas line.

The water main and sanitary sewer main exist adjacent to the subject property to the north along the south side of W. Wisconsin Avenue. The water main exists at approximately 7 feet below ground surface and is made of 6" ductile iron. The water main was installed in 1986, but the city is unsure of the backfill material. The sanitary sewer main exists at approximately 6 feet below ground surface and is made of 8" plastic piping. The sanitary sewer main was installed in 1986, but the city is unsure of the backfill material. Several sewer (4" or 6" plastic) and water (3/4" copper) lateral lines to the subject property and other nearby buildings also exist in the area of soil and groundwater contamination. These exist at approximately 6-7 feet bgs, but the city is unsure of the backfill material. Based on water level measurements collected from the monitoring wells, groundwater exists at

## **Site Investigation Report - METCO Luedtke Property**

approximately the same depths of the utility corridors. However, due to the sand/gravel native soils in the area, it is unlikely that these are acting as preferential contamination migration pathways.

Natural gas and telephone lines typically exist within 30 inches of ground surface and backfilled with native soil. Therefore, these do not appear to be potential contaminant migration pathways.

The extent of the groundwater contamination appears to extend underneath the on-site building (Luedtke Property) at depths ranging from 7-8 feet bgs. However, due to the lack of soil contamination near the on-site building, and because Benzene levels in groundwater are less than 1,000 ppb, vapor intrusion in the on-site building is unlikely.

### **Municipal and Private Water Supply Wells**

The subject property and surrounding properties are all served by the City of Tomahawk municipal water supply. The City of Tomahawk has two municipal wells, which are located approximately 4,000 feet to the south of the subject property. The City of Tomahawk is not aware of any private water supply wells in this area. If any private wells do exist, they are not used for domestic purposes.

METCO is not currently aware of any other impacts, receptors, risks, or local problems associated with the subject property.

### **Surface Waters**

The nearest surface water is Lake Mohawksin, a reservoir on the Wisconsin River, which exists approximately 1,500 feet to the north of the subject property.

## **3.0 SITE INVESTIGATION RESULTS AND RISK CRITERIA**

### **3.1 Methods of Investigation**

#### **Workscope**

The workscope performed for the LUST Investigation included the following:

- 1) On January 31, 2017, METCO prepared a LUST Investigation Field Procedures Workplan.
- 2) On May 8-9, 2017, METCO completed twenty-five Geoprobe borings (G-1 thru G-25). Seventy-three soil samples and twenty-five groundwater samples were collected from the borings for field and/or laboratory analysis.
- 3) On November 13-14, 2017, METCO completed nine soil borings which were converted to monitoring/piezometer wells (MW-1 thru MW-8, and PZ-1). Thirty-seven soil samples were collected for field and/or laboratory analysis. One composite soil sample was also collected for waste disposal characterization. Upon completion, the monitoring/piezometer wells were properly developed.
- 4) On December 12, 2017, DKS Transport Services, LLC picked up and properly disposed of 9 drums of soil cuttings and 2 drums of purge water.

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- 5) On January 29, 2018, METCO personnel collected groundwater samples from eight monitoring/piezometer wells (MW-1 thru MW-6, MW-8, and PZ-1) for field and laboratory analysis. The well network was properly surveyed to feet mean sea level (msl) by Fauerbach Surveying & Engineering at this time. However, monitoring well MW-7 could not be sampled or surveyed as the well was beneath a large snow/ice pile and could not be located. METCO also conducted slug tests on three monitoring/piezometer wells (MW-1, MW-8, and PZ-1).
  
- 6) On April 30, 2018, METCO personnel collected groundwater samples from nine monitoring/piezometer wells (MW-1 thru MW-8, and PZ-1) for field and laboratory analysis. Monitoring well MW-7 was also properly surveyed by METCO personnel to feet msl at this time.

### **Site Access Problems**

No site access problems were encountered during the LUST investigation.

### **Analytical Methods**

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project to our knowledge.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

## **3.2 Data Discussion**

### **Soil Sampling Data**

On May 8-9, 2017, during the Geoprobe Project, twenty-five soil borings were completed with seventy-three soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, Naphthalene, and/or Lead).

On November 13-14, 2017, during the Drilling Project, nine soil borings were completed with thirty-seven soil samples collected for field and/or laboratory analysis (PID, GRO, PVOC, and Naphthalene). One composite soil sample was also collected for laboratory analysis (GRO, PVOC, Naphthalene, and TCLP-Lead) for waste disposal characterization.

Soil analytical results are summarized in the Soil Analytical Results Tables with exceedances of the NR720 Groundwater RCL values noted.

Soil sample locations are presented in the Detailed Site Map found in Section 6. All data is presented in the data tables in Section 7. The laboratory reports are presented in Appendix B.

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**Groundwater Sampling Data**

On May 8-9, 2017, during the Geoprobe Project, twenty-five groundwater samples were collected from the soil borings (G-1 thru G-25) for laboratory analysis (P VOC and Naphthalene).

On November 13-14, 2017, during the Drilling Project, eight monitoring wells (MW-1 thru MW-8) and one piezometer (PZ-1) were installed and properly developed.

On January 29, 2018, METCO personnel collected groundwater samples from eight monitoring/piezometer wells (MW-1 thru MW-6, MW-8, and PZ-1) (Round 1) for field and laboratory analysis (VOC's, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, Sulfate, and Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were collected from all sampled monitoring/piezometer wells. METCO also conducted slug tests on three monitoring/piezometer wells (MW-1, MW-8, and PZ-1). The well network was properly surveyed to feet msl at this time. However, monitoring well MW-7 could not be sampled or surveyed as the well was beneath a large snow/ice pile and could not be located.

On April 30, 2018, METCO personnel collected groundwater samples from nine monitoring/piezometer wells (MW-1 thru MW-8, and PZ-1) (Round 2) for field and laboratory analysis (VOC, P VOC, Naphthalene, and/or Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were collected from all sampled monitoring/piezometer wells. Monitoring well MW-7 was also properly surveyed by METCO personnel to feet msl at this time.

Groundwater analytical results are summarized in the Groundwater Analytical Tables with exceedances of the NR140 Preventive Action Limits (PAL) and/or Enforcement Standard (ES) noted.

The soil boring and monitoring/piezometer well locations are presented in the Detailed Site Map in Section 6. All data is presented in the data tables in Section 7. The lab reports are presented in Appendix B.

**Laboratory Certification**

Synergy Environmental Lab

Wisconsin Lab Certification #445037560

**3.3 Permeability and Hydraulic Conductivity**

On January 29, 2018, METCO conducted slug tests on monitoring wells MW-1 and MW-8, and piezometer PZ-1. The slug test data was evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc.

Slug test data was evaluated using the Bouwer and Rice method. Hydrogeologic parameters were estimated as follows:

Monitoring Well MW-1

Hydraulic Conductivity (K) = 7.07E-04 cm/sec

Transmissivity = 1.78E-01 cm<sup>2</sup>/sec

Flow Velocity (V=KI/n) = 1.68246 m/yr

Monitoring Well MW-8

Hydraulic Conductivity (K) = 4.54E-04 cm/sec

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Transmissivity = 1.05E-01 cm<sup>2</sup>/sec  
Flow Velocity (V=KI/n) = 1.08055 m/yr

Piezometer PZ-1

Hydraulic Conductivity (K) = 3.72E-04 cm/sec  
Transmissivity = 2.41E-01 cm<sup>2</sup>/sec  
Flow Velocity (V=KI/n) = 0.88476 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring/piezometer wells MW-1 and MW-8, and PZ-1 were assumed as the lower extent of the aquifer for calculation purposes. Slug test data is presented in Appendix E.

### **3.4 Discussion of Results**

Native unconsolidated materials in this area generally consist of the following in downward stratigraphic order. From surface to approximately 15 feet bgs exists a brown to gray to tan fine to coarse grained sand with gravel. From approximately 15 feet bgs and extending to approximately 24 feet bgs exists a gray silt to sandy silt. At approximately 24 feet bgs and extending to at least 30 feet bgs exists a tan very fine to fine grained sand to silty sand.

Bedrock was not encountered during the site investigation, but granite bedrock is expected to exist at approximately 50-100 feet bgs, based on local well construction reports.

According to data collected from the monitoring wells, the depth to groundwater ranges from 6.43 to 8.00 feet bgs depending on well location and time of year. The depth to water in the piezometer ranged from 8.25 to 9.15 feet bgs depending on the time of year. According to the watertable measurements collected during groundwater sampling, local horizontal groundwater flow in the immediate area of the subject property is generally toward the west to northwest.

Three areas of unsaturated soil contamination, which exceed the NR720 Groundwater RCL's (Lead only), exist in the area of the removed UST's, encompassing soil borings G-4, G-5, and G-8. These areas appear to measure up to 14 feet in diameter and up to 4-6 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the watertable in the area of the removed UST's and has migrated toward the northwest. This plume is approximately 169 feet long and up to 105 feet wide at its widest point.

Based on the most recent groundwater analytical results, four monitoring/piezometer wells (MW-1, MW-2, MW-8, and PZ-1) show NR140 ES and/or PAL exceedances.

Based on the receptor survey, there does not appear to be the potential of contaminant migration along any utility corridors, risk of vapor intrusion to any buildings, or risk to any private wells, or surface waters.

To our knowledge, this investigation has not had any major difficulties, unanticipated results, or questionable results.

The Detailed Site Map, Soil Contamination Map, Groundwater Flow Direction Maps, Groundwater Isoconcentration Map, and Geologic Cross- Section figures, which visually define the extent of contamination, are presented in Section 6.

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3.5 Risk Assessment**

Per the NR746.03 definitions a release from petroleum tanks is considered "high risk" if any of the four following criterion are met:

- 1) Verified contaminant concentrations in a private or public potable well that exceeds the Preventive Action Limit established under Chapter, Stats. 160.
- 2) Petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more, and verified by more than one sampling event.
- 3) An Enforcement Standard exceedance in groundwater within 1,000 feet of a well operated by a public utility, or within 100 feet of any other well used to provide water for human consumption.
- 4) An Enforcement Standard exceedance in fractured bedrock.

A "medium risk" site is defined as a site where contaminants have extended beyond the boundary of the source property, or there is confirmed contamination in the groundwater, but the site does not meet the definition of a "high risk" site.

A "low risk" site is defined as a site where contaminants are contained only within the soil on the source property and there is no confirmed contamination in groundwater.

Based on the NR746.03 definitions, the Luedtke Property site is currently a "medium risk" site.

## **4.0 CONCLUSION**

### **4.1 Investigation Summary**

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

### **4.2 Recommendations**

Although the extent and degree of petroleum contamination is defined to a practical extent, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis. Per state response to this report, METCO will proceed with this project.

## 5.0 REFERENCES

Driscoll, F. G., 1986, Groundwater and Wells, St. Paul, Minnesota.

Fetter, C.W., 1988, Applied Hydrogeology, Columbus, Ohio.

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Walton, W.C., 1989, Groundwater Pumping Tests, Chelsea, Michigan.

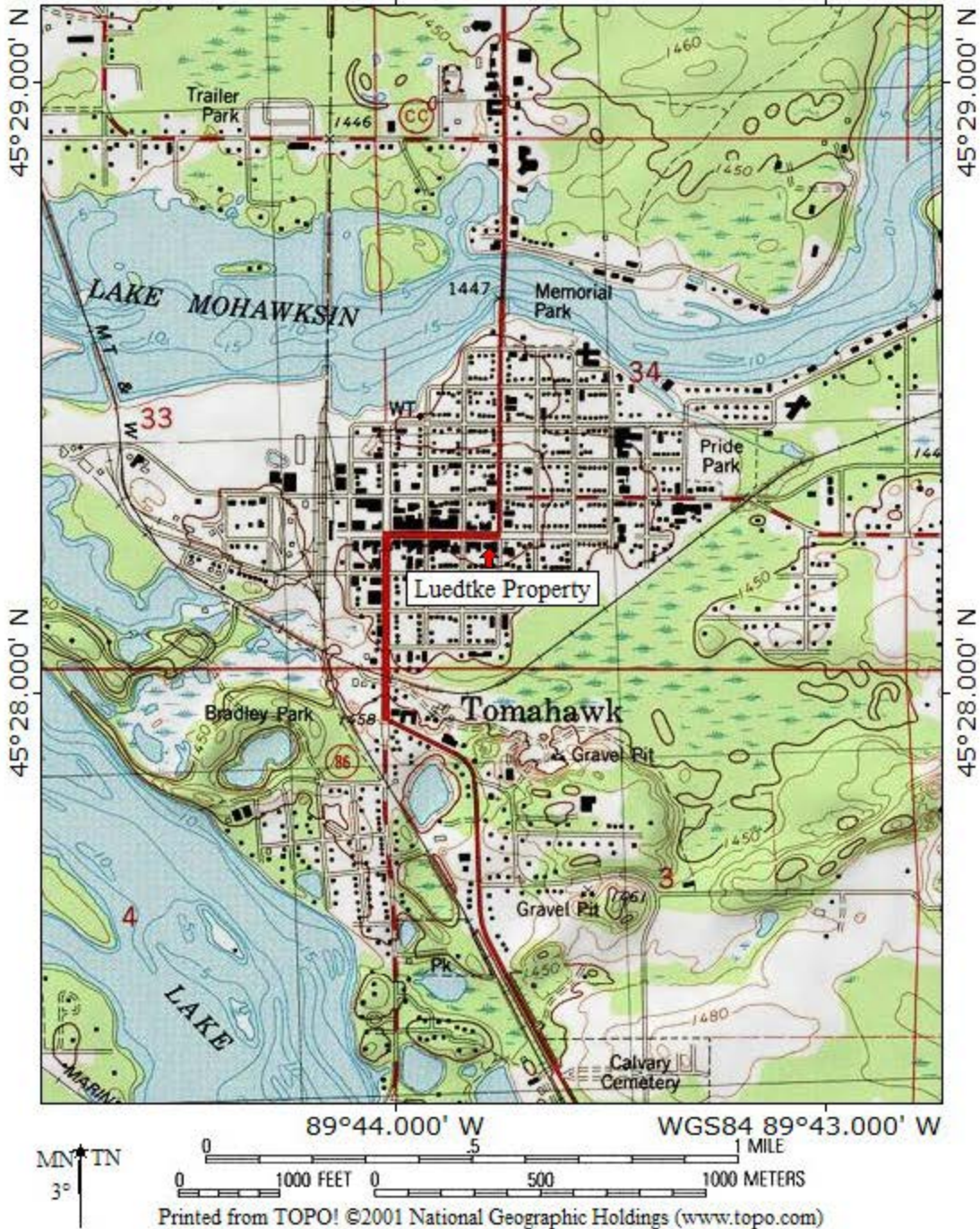
Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

Other information and data was collected from Todd Luedtke, City of Tomahawk, Diggers Hotline, Geiss Soil and Samples, LLC, Fauerbach Surveying & Engineering, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

**Site Investigation Report - METCO  
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6.0 FIGURES**



TOPO! map printed on 01/19/17 from "Wisconsin.tpo" and "Untitled.tpg"  
89°44.000' W WGS84 89°43.000' W



B.1.a LOCATION MAP
CONTOUR INTERVAL 10 FEET
LUEDTKE PROPERTY – TOMAHAWK, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

COFFEE SHOP  
16 W. WIS. AVE

H & R BLOCK  
14 W. WIS. AVE

VACANT  
12 W. WIS. AVE

TWICE AS NICE  
10 W. WIS. AVE

PIK'S PUB  
8 W. WIS. AVE

C-STORE  
BRPTS#  
03-35-000361

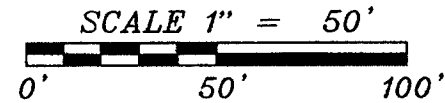
MW-5

NORTH 4th ST.

TOMAHAWK  
COMMUNITY  
BANK

KEY

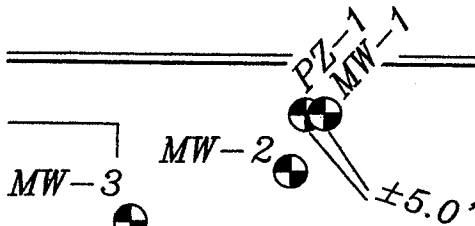
FLUSH MONITORING WELL



MW-4

WEST WISCONSIN AVE.

MEDIAN



MW-3

MW-2

PZ-1  
MW-1

±5.0'

THEATRE  
17 W. WIS. AVE

LUEDTKE PROP.  
11-7 W. WIS.  
AVE.

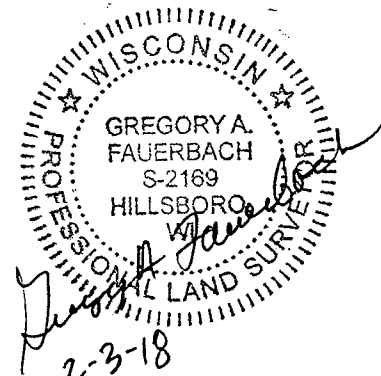
MW-8

MASONRY BLDG.  
3 W. WIS. AVE  
STAIRS

SOUTH 4th ST.

MW-6

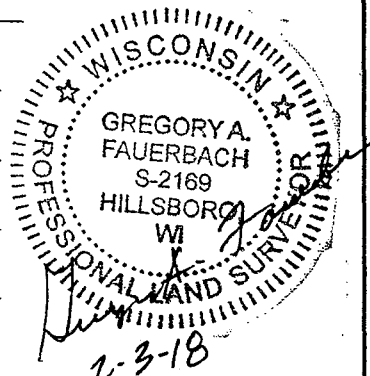
ST. PAUL'S  
LUTHERAN  
CHURCH



MW-7  
APPROX. ONLY DUE  
TO SNOW PILE.


DRAWN BY: GREG FAUERBACH	REVISIONS	PROJECT:	SHEET NAME	PAGE
DATE: 1-29-18 FIELD		LUEDTKE PROPERTY	LOCATION MAP	1 OF 1
DWG. NO.: 568172	FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	11 WEST WISCONSIN AVE. TOMAHAWK, WI 54487		

WELL	LINCOLN COUNTY WISCORS NAD83(2011)		TOP OF WELL ELEVATION (NAVD 88)	TOP OF PVC CASING ELEVATION (NAVD 88)
	NORTH	EAST		
MW-1	228410.20	381913.66	1448.15'	1447.71'
PZ-1	228409.97	381908.67	1448.13'	1447.59'
MW-2	228395.10	381904.85	1448.43'	1448.05'
MW-3	228382.05	381863.40	1448.80'	1448.19'
MW-4	228498.89	381892.59	1448.52'	1448.13'
MW-5	228502.29	381999.22	1448.23'	1447.78'
MW-6	228395.60	382068.16	1448.66'	1448.31'
MW-7 (APPROX.)	228286	381978		
MW-8	228359.18	381957.02	1448.71'	1448.40'



<b>DRAWN BY:</b> GREG FAUERBACH	<b>REVISIONS</b>	<b>PROJECT:</b> LUEDTKE PROPERTY 11 WEST WISCONSIN AVE. TOMAHAWK, WI 54487	<b>SHEET NAME</b>	<b>PAGE</b>
<b>DATE:</b> 1-29-18 FIELD			DATA SHEET	1 OF 1
<b>DWG. NO.:</b> 568172	FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363			


B.I.b  
DETAILED SITE MAP  
LUEDTKE PROPERTY









709 Gillette St. Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-8979  
Fax: (608) 781-8993  
Experience through expertise

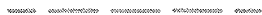






**TOMAHAWK  
WISCONSIN**

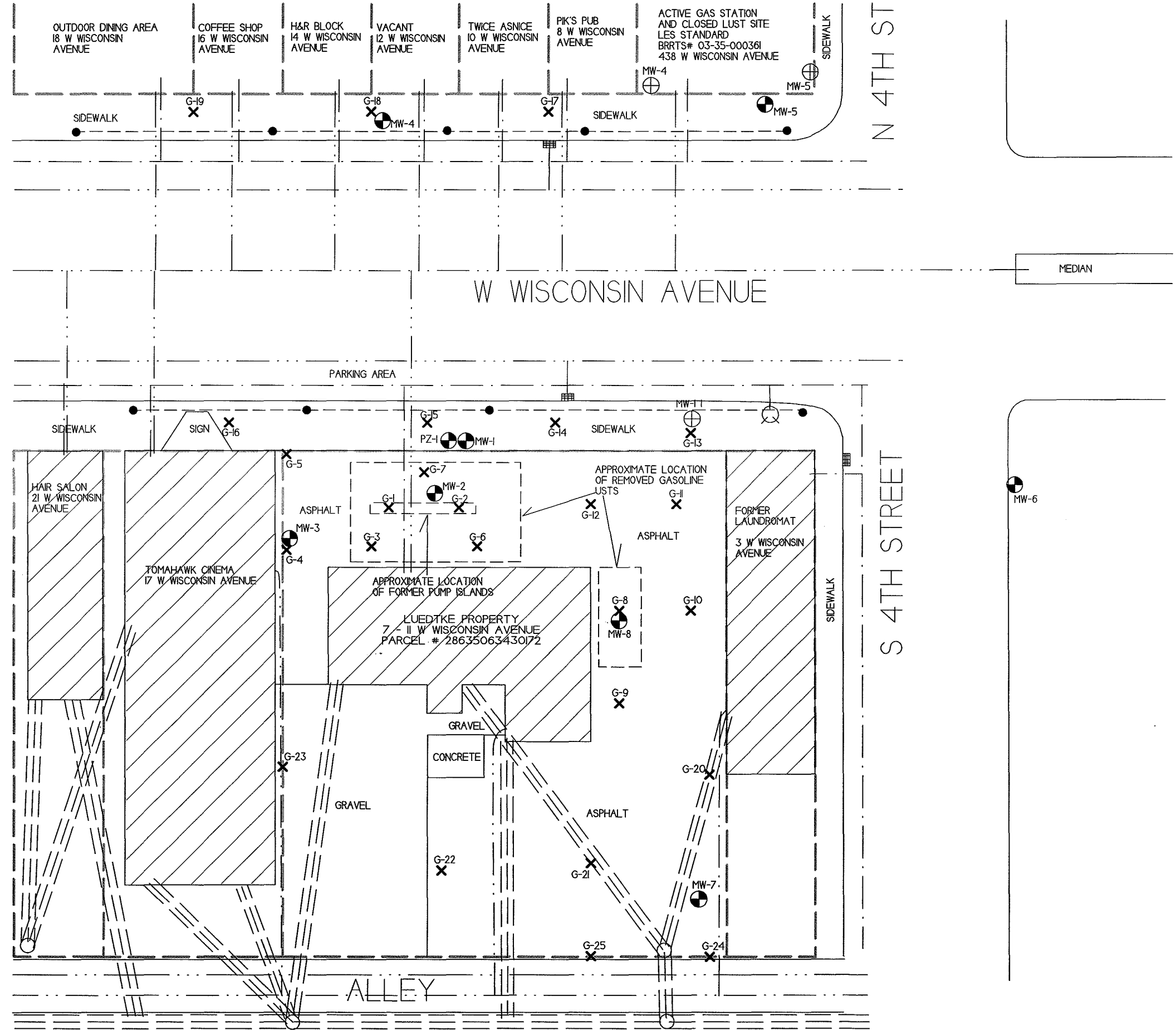
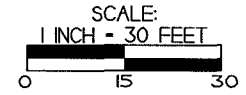
DRAWN BY: ED  
DATE: 03/18/2007

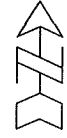



NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

-  - FORMER MONITORING WELL LOCATION - LES STANDARD
-  - MONITORING WELL LOCATION - METCO
-  - SOIL BORING LOCATION
-  - STORM DRAIN
-  - FIRE HYDRANT
-  - LIGHT POLE

-  - PROPERTY BOUNDARY
-  - SANITARY SEWER LINE
-  - STORM SEWER LINE
-  - WATER LINE
-  - GAS LINE
-  - BURIED ELECTRIC LINE
-  - OVERHEAD ELECTRIC



B.2.a <b>SOIL CONTAMINATION LUEDTKE PROPERTY</b>		
 <small>709 Gillette St., Suite 3 La Crosse, WI 54601 Tel: (608) 781-8879 Fax: (608) 781-8893 Excellence through experience</small>	<b>TOMAHAWK, WISCONSIN</b> <small>DRAWN BY: ED DATE: 04/11/2007</small>	

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD

● - MONITORING WELL LOCATION - METCO

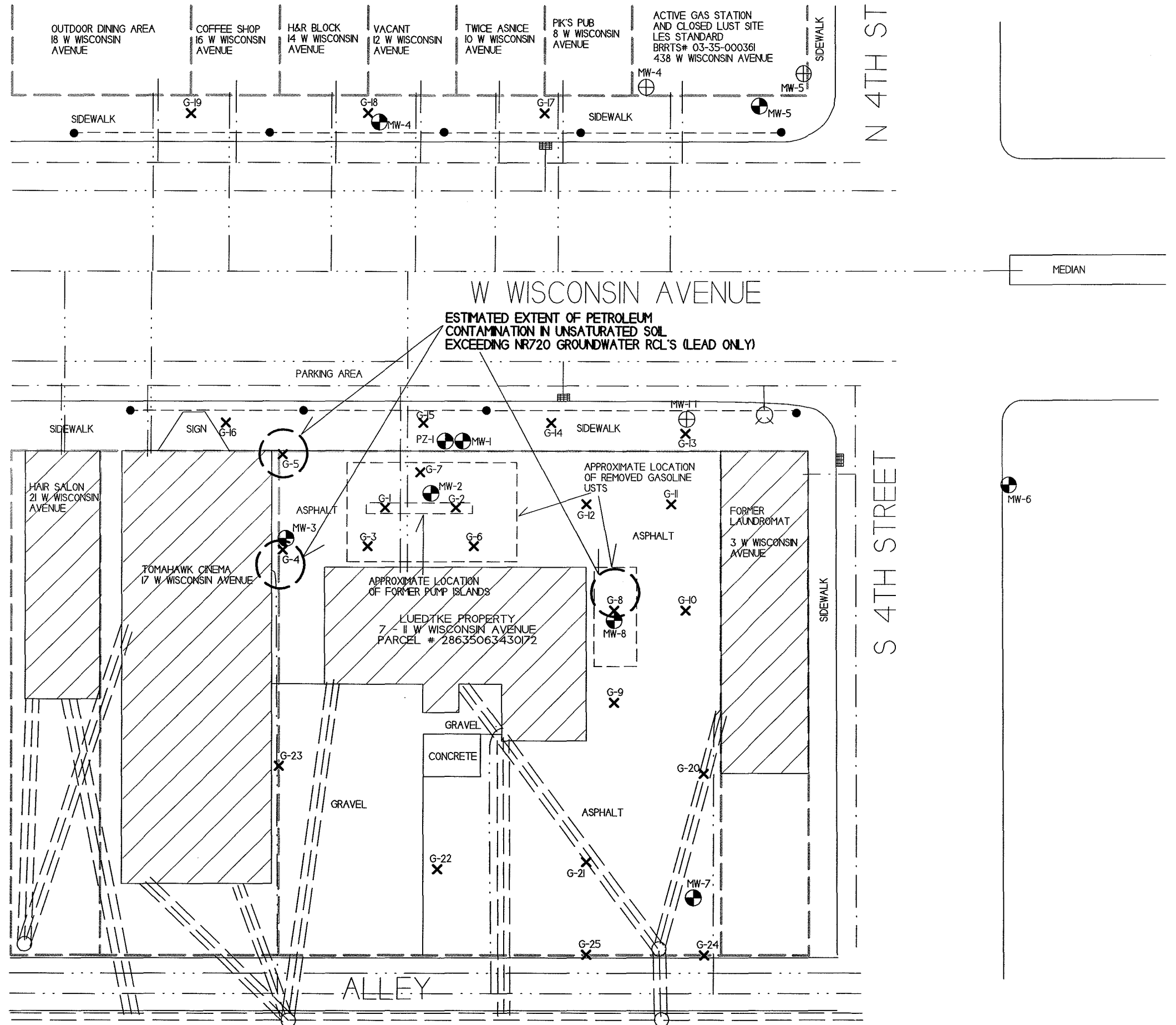
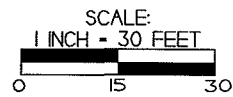
✕ - SOIL BORING LOCATION

▣ - STORM DRAIN

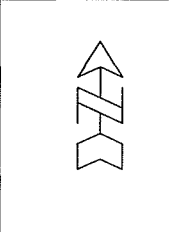
⊙ - FIRE HYDRANT

● - LIGHT POLE

- ▬ - PROPERTY BOUNDARY
- - SANITARY SEWER LINE
- - STORM SEWER LINE
- - WATER LINE
- - GAS LINE
- - BURIED ELECTRIC LINE
- === - OVERHEAD ELECTRIC



**B.3.c GROUNDWATER FLOW DIRECTION (1/29/18)**  
**LUEDTKE PROPERTY**



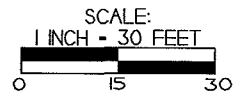
**METCO**  
 709 Gillette St., Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893  
 Experience through expertise

**TOMAHAWK, WISCONSIN**  
 DRAWN BY: ED  
 DATE: 01/18/2017

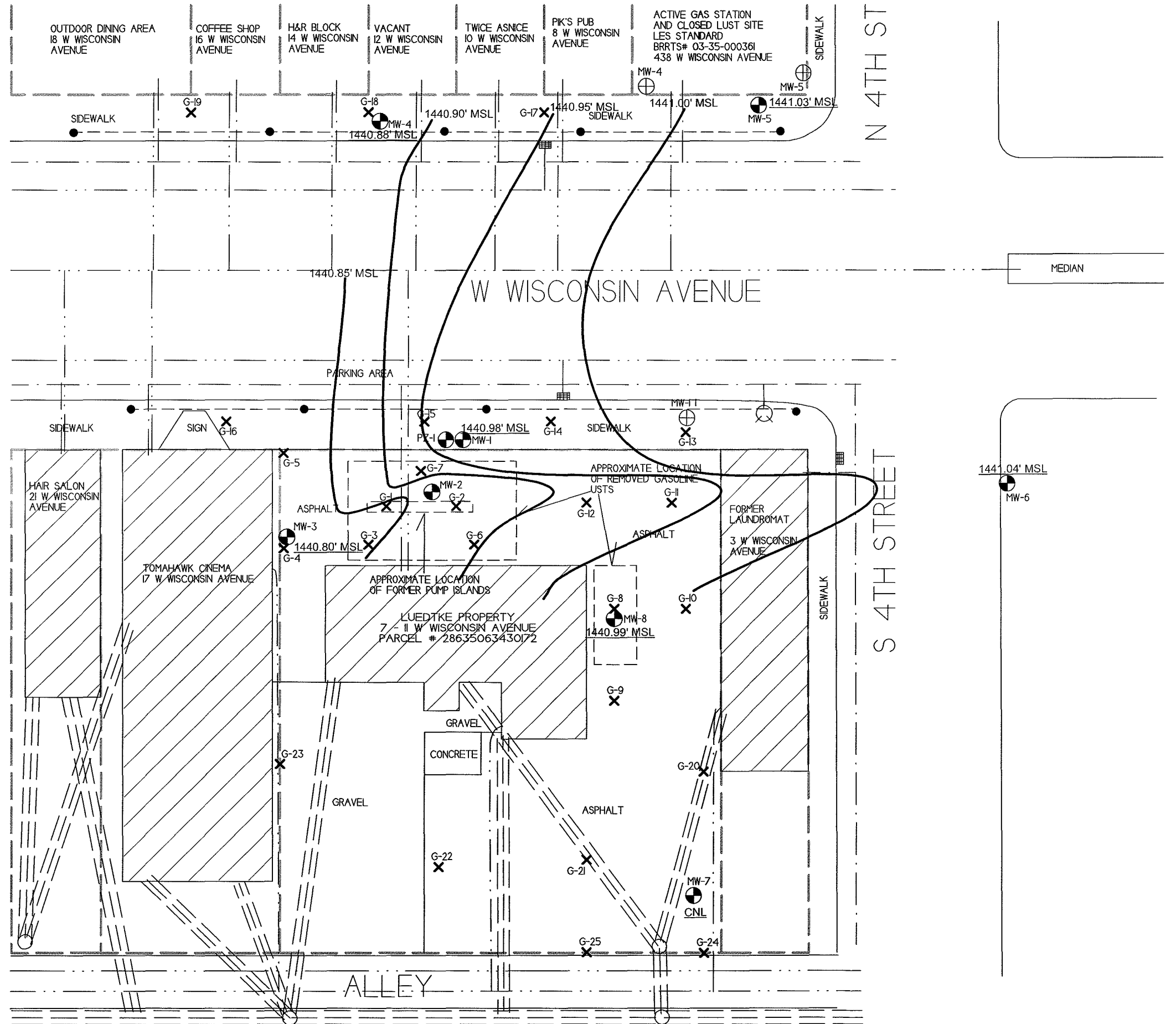
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- ⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD
- ⊙ - MONITORING WELL LOCATION - METCO
- ✕ - SOIL BORING LOCATION
- ▣ - STORM DRAIN
- ⊕ - FIRE HYDRANT
- - LIGHT POLE

- ▬ - PROPERTY BOUNDARY
- ▬ - SANITARY SEWER LINE
- ▬ - STORM SEWER LINE
- ▬ - WATER LINE
- ▬ - GAS LINE
- ▬ - BURIED ELECTRIC LINE
- ▬ - OVERHEAD ELECTRIC




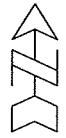
PLEASE NOTE: MONITORING WELL MW-7 COULD NOT BE LOCATED DURING THE 1/29/2018 SAMPLING EVENT AS IT WAS BURIED UNDER A PILE OF SNOW AND ICE.



B.3.c GROUNDWATER FLOW DIRECTION (4/30/18)  
 LUEDTKE PROPERTY

709 Giffette St, Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893

TOMAHAWK, WISCONSIN  
 DRAWN BY: ED  
 DATE: 09/2/2007

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD

● - MONITORING WELL LOCATION - METCO

✕ - SOIL BORING LOCATION

▤ - STORM DRAIN

⊙ - FIRE HYDRANT

● - LIGHT POLE

▬ - PROPERTY BOUNDARY

— - SANITARY SEWER LINE

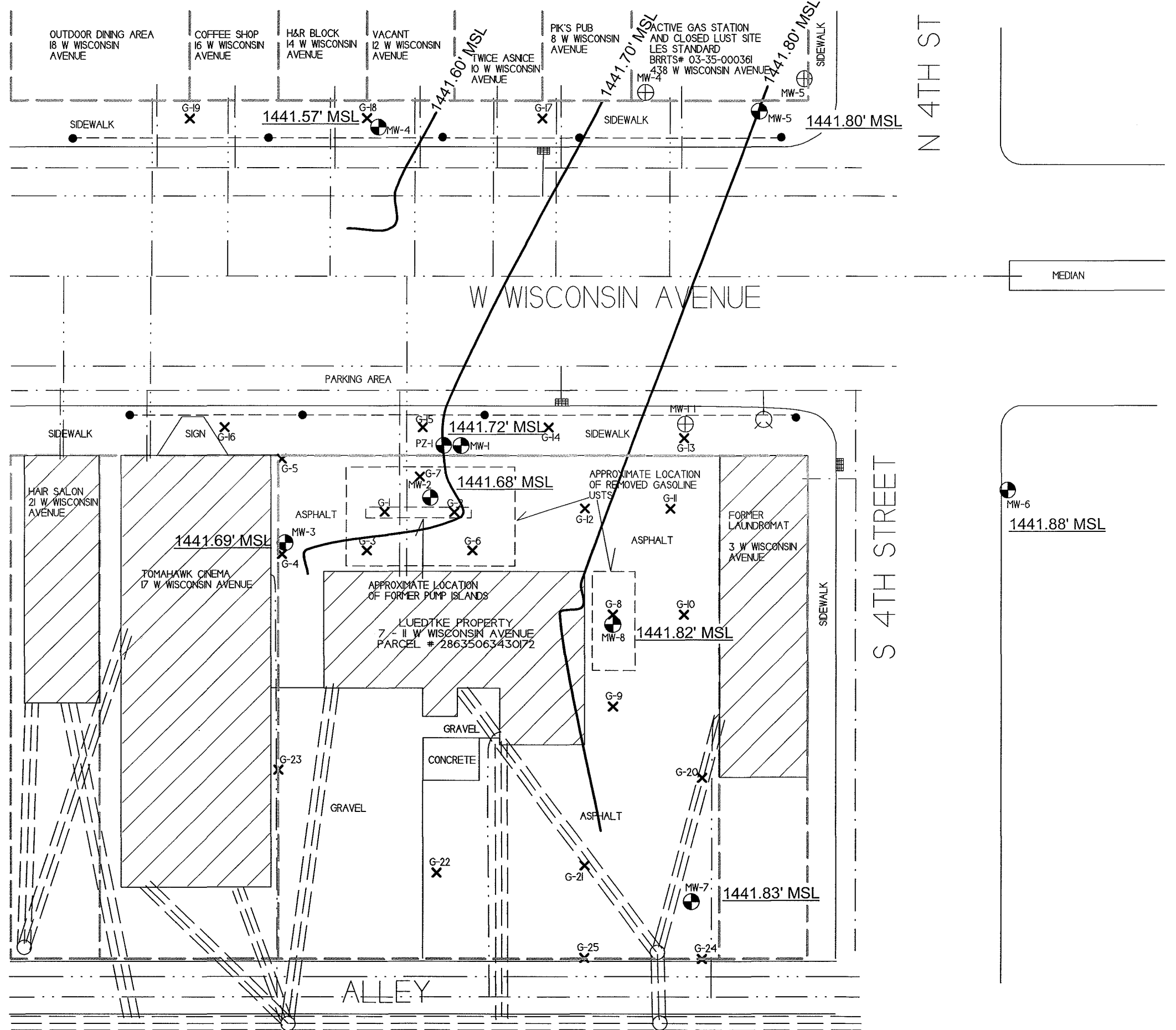
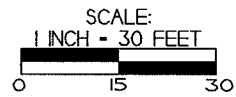
- - - - - STORM SEWER LINE

— - - - - WATER LINE

- - - - - GAS LINE

- - - - - BURIED ELECTRIC LINE


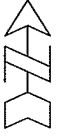
▬▬▬▬▬▬ - OVERHEAD ELECTRIC



**B.3.b GROUNDWATER ISOCONCENTRATION (4/30/18)**  
**LUEDTKE PROPERTY**

709 Gillette St. Suite 2  
 La Crosse, WI 54603  
 Tel: (608) 781-8819  
 Fax: (608) 781-8893

**TOMAHAWK, WISCONSIN**  
 DRAWN BY: ED  
 DATE: 04/18/2007

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD

⊗ - MONITORING WELL LOCATION - METCO

✕ - SOIL BORING LOCATION

▤ - STORM DRAIN

⊙ - FIRE HYDRANT

● - LIGHT POLE

▬ - PROPERTY BOUNDARY

▬ - SANITARY SEWER LINE

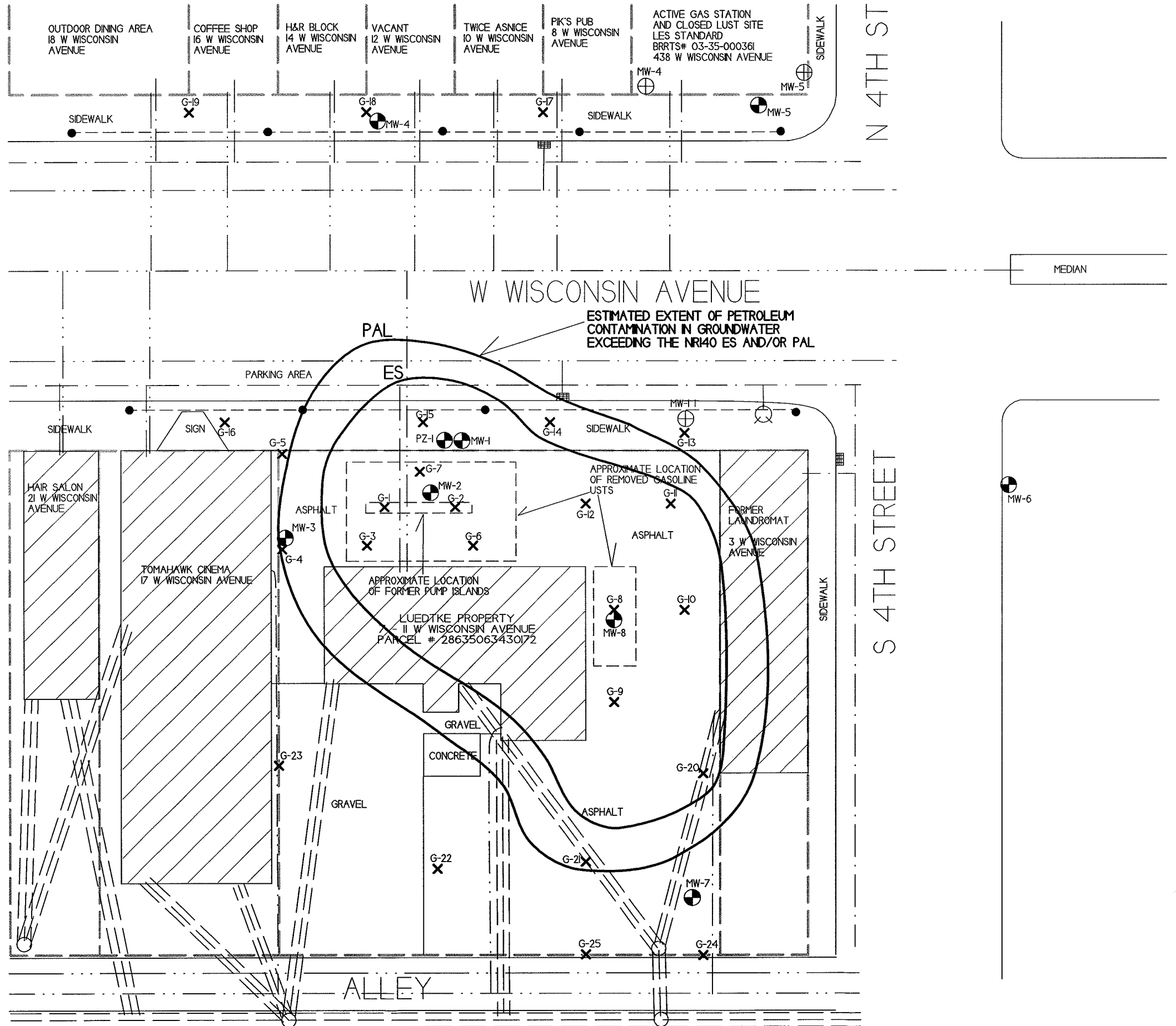
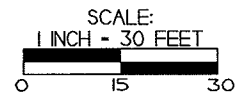
▬ - STORM SEWER LINE

▬ - WATER LINE

▬ - GAS LINE

▬ - BURIED ELECTRIC LINE

▬ - OVERHEAD ELECTRIC






**B.3.a.1 GEOLOGIC CROSS SECTION FIGURE LUEDTKE PROPERTY**

709 Gillette St. Suite 3  
La Crosse, WI 54603  
Tel: (608) 781-8879  
Fax: (608) 781-8893

**TOMAHAWK, WISCONSIN**  
DRAWN BY: ED  
DATE: 01/16/2007



Existence through experience

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.

⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD

⊙ - MONITORING WELL LOCATION - METCO

✕ - SOIL BORING LOCATION

▨ - STORM DRAIN

⊕ - FIRE HYDRANT

● - LIGHT POLE

----- - PROPERTY BOUNDARY

----- - SANITARY SEWER LINE

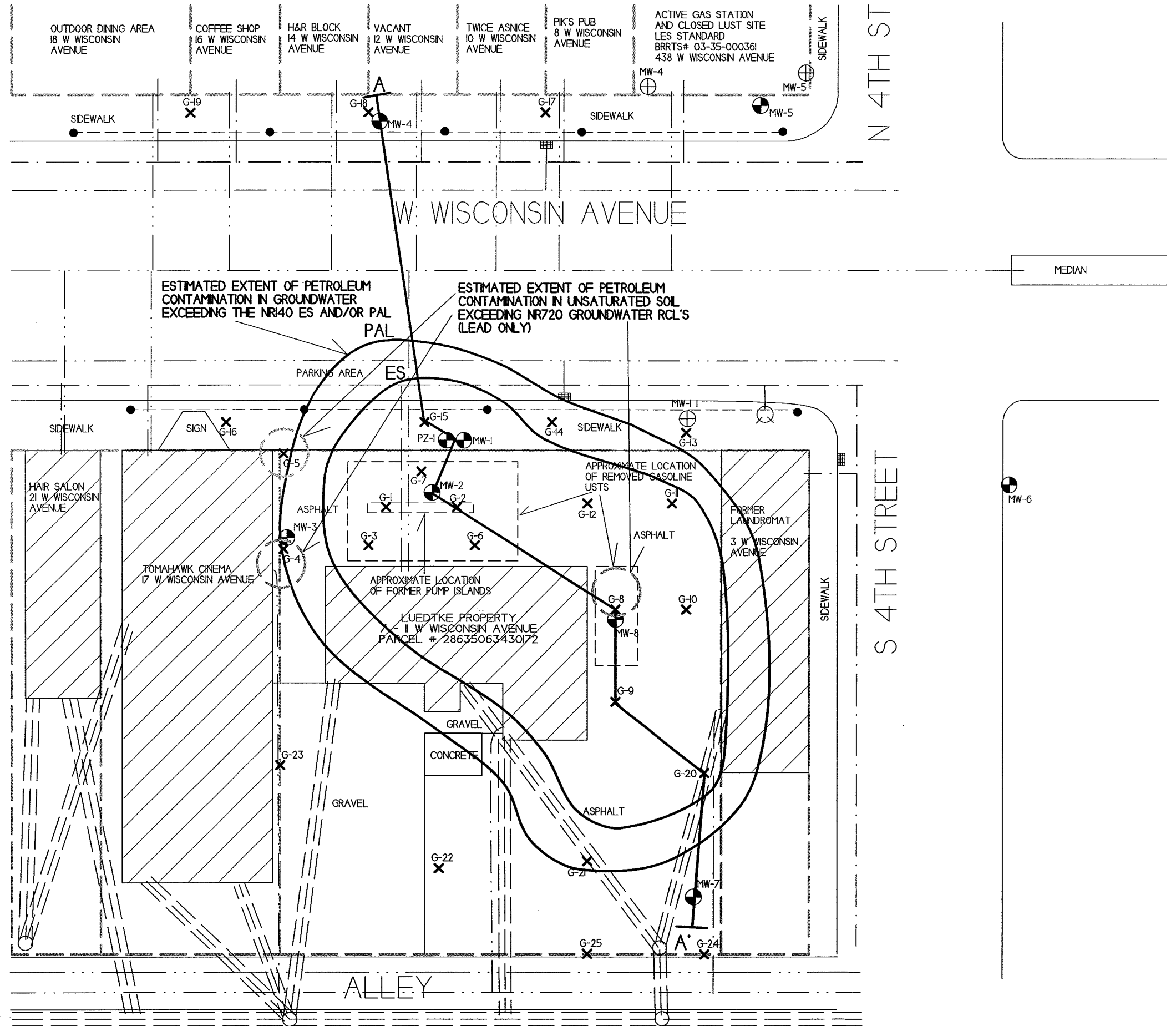
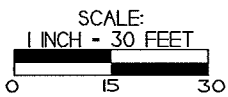
----- - STORM SEWER LINE

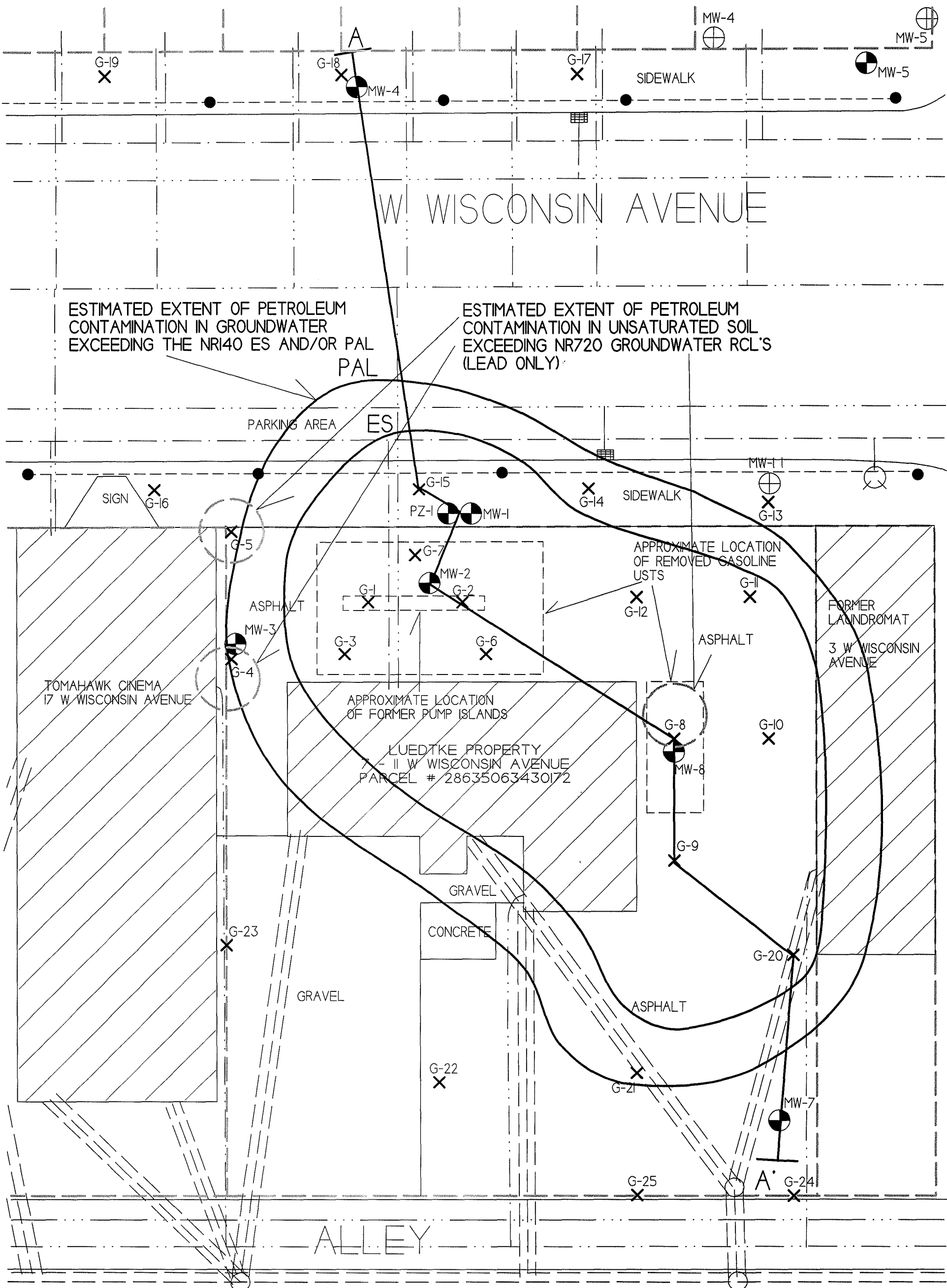
----- - WATER LINE

----- - GAS LINE

----- - BURIED ELECTRIC LINE

===== - OVERHEAD ELECTRIC





ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL PAL

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S (LEAD ONLY)

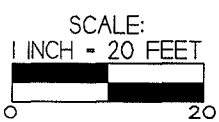
B.3.a.2 GEOLOGIC CROSS SECTION FIGURE (CLOSE UP)  
**LUEDTKE PROPERTY**

709 Gillette St., Suite 3  
 La Crosse, WI 54602  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893

**TOMAHAWK, WISCONSIN**  
 DRAWN BY: ED  
 DATE: 01/8/2007

- ⊕ - FORMER MONITORING WELL LOCATION - LES STANDARD
- ⊗ - MONITORING WELL LOCATION - METCO
- ✕ - SOIL BORING LOCATION
- ▣ - STORM DRAIN
- - FIRE HYDRANT
- - LIGHT POLE
- - PROPERTY BOUNDARY
- - - - - SANITARY SEWER LINE
- - - - - STORM SEWER LINE
- - - - - WATER LINE
- - - - - GAS LINE
- - - - - BURIED ELECTRIC LINE
- ===== OVERHEAD ELECTRIC

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER



**B.3.d.3 GEOLOGIC CROSS SECTION FIGURE**  
**LUEDTKE PROPERTY**



709 Gillette St., Suite 3  
 La Crosse, WI 54603  
 Tel: (608) 781-8879  
 Fax: (608) 781-8893  
**TOMAHAWK WISCONSIN**  
 DRAWN BY: JJJ  
 DATE: 6/26/18

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:  
 - GEOPROBE PROJECT (5/8-9/17)  
 - DRILLING PROJECT (1/13-14/17)  
 - ROUND 2 GROUNDWATER SAMPLING (4/30/18)

NOTE: SOIL RESULTS SHOW DETECTS AND EXCEEDANCES THAT HAVE BEEN DOCUMENTED ON THE MAP. SEE DATA TABLES AND/OR LABORATORY REPORTS FOR ALL RESULTS

- - MONITORING WELL LOCATION
- - GEOPROBE BORING LOCATION
- ✕ - SOIL SAMPLING LOCATION
- ▼ - WATERTABLE

NOTE: WATER TABLE IS BASED ON ALL TIME LOW MEASUREMENTS.

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER.  
 SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).  
 GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).  
 GROUNDWATER FLOW IS TOWARD THE WEST TO NORTHWEST.

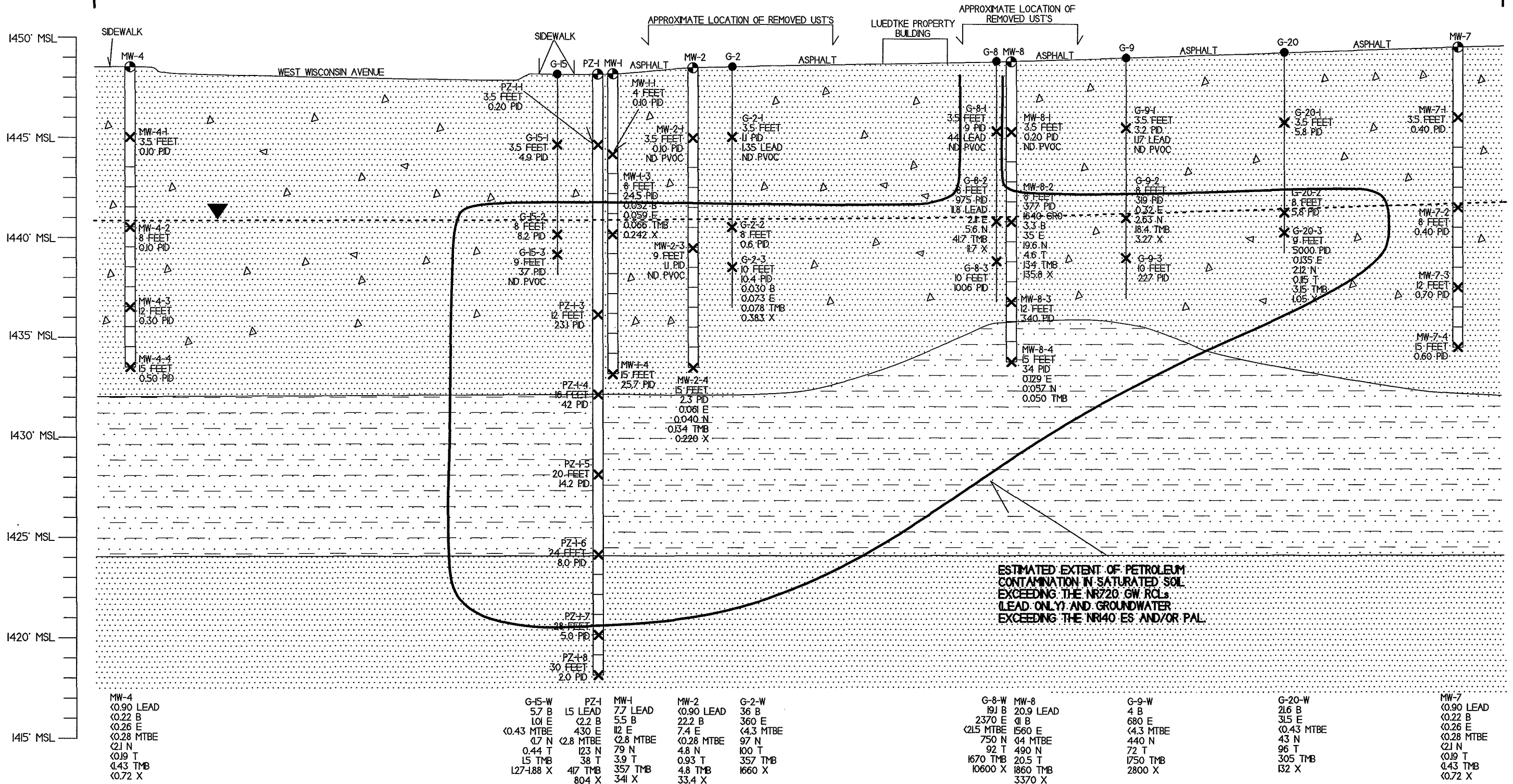
ND - NO DETECT  
 PID - PHOTO IONIZATION DETECTOR  
 GRO - GASOLINE RANGE ORGANICS  
 PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS  
 B - BENZENE  
 E - ETHYLBENZENE  
 MTBE - METHYL-TERT-BUTYL-ETHER  
 N - NAPHTHALENE  
 T - TOLUENE  
 TMB - TRIMETHYLBENZENE  
 X - XYLENE

- GRAY TO TAN TO BROWN FINE TO COARSE GRAINED SAND WITH GRAVEL
- GRAY SILT TO SANDY SILT
- TAN VERY FINE TO FINE GRAINED SAND TO SILTY SAND

HORIZONTAL SCALE:  
 1 INCH = 20 FEET

VERTICAL SCALE:  
 1 INCH = 5 FEET

A NORTH  
 SOUTH



Site Investigation Report - METCO

Luedtke Property

## 7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS



A.2 Soil Analytical Results Table  
Luedtke Property BRRTS #03-35-554426

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
PZ-1-1	3.5	U	11/13/17	0.2															
PZ-1-2																			
NO RECOVERY																			
PZ-1-3	12	S	11/13/17	23.1															
PZ-1-4	16	S	11/13/17	42															
PZ-1-5	20	S	11/13/17	14.2															
PZ-1-6	24	S	11/13/17	8.0															
PZ-1-7	28	S	11/13/17	5.0															
PZ-1-8	30	S	11/13/17	2.0															
MW-1-1	4	U	11/13/17	0.1															
MW-1-2																			
NO RECOVERY																			
MW-1-3	8	S	11/13/17	24.5	NS	NS	NS	0.052	0.059	<0.025	<0.025	<0.025	0.066	<0.025	0.242				
MW-1-4	15	S	11/13/17	25.7															
MW-2-1	3.5	U	11/13/17	0.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
MW-2-2																			
NO RECOVERY																			
MW-2-3	9	S	11/13/17	1.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
MW-2-4	15	S	11/13/17	2.3	NS	NS	NS	<0.025	0.061	<0.025	0.040	<0.025	0.102	0.032	0.220				
MW-3-1	3.5	U	11/13/17	0.4															
MW-3-2	8	S	11/13/17	0.1															
MW-3-3	10	S	11/13/17	12.6	NS	NS	NS	<0.025	0.051	<0.025	0.0303	<0.025	0.052	0.0276	0.094-0.119				
MW-3-4	15	S	11/13/17	6.3	NS	NS	NS	<0.025	0.038	<0.025	0.0277	<0.025	<0.025	<0.025	0.064-0.089				
MW-4-1	3.5	U	11/14/17	0.1															
MW-4-2	8	S	11/14/17	0.1															
MW-4-3	12	S	11/14/17	0.3															
MW-4-4	15	S	11/14/17	0.5															
MW-5-1	3.5	U	11/14/17	0.5															
MW-5-2	8	S	11/14/17	0.7															
MW-5-3	12	S	11/14/17	0.8															
MW-5-4	15	S	11/14/17	0.7															
MW-6-1	3.5	U	11/14/17	0.5															
MW-6-2	8	S	11/14/17	0.6															
MW-6-3	12	S	11/14/17	0.4															
MW-6-4	15	S	11/14/17	0.8															
MW-7-1	3.5	U	11/14/17	0.4															
MW-7-2	8.0	S	11/14/17	0.4															
MW-7-3	12.0	S	11/14/17	0.7															
MW-7-4	15.0	S	11/14/17	0.6															
MW-8-1	3.5	U	11/14/17	0.2	NS	NS	NS	<0.025	<0.025	<0.025	0.0282	<0.025	<0.025	<0.025	<0.075				
MW-8-2	8.0	S	11/14/17	377	NS	NS	1640	3.3	35	<0.125	19.6	4.6	98	36	135.8				
MW-8-3	12.0	S	11/14/17	340															
MW-8-4	15.0	S	11/14/17	34	NS	NS	NS	<0.025	0.129	<0.025	0.057	<0.025	<0.025	0.050	<0.075				
DRUM COMPO-SITE			11/14/17	NS	NS	NS	172	<0.05	0.43	<0.05	1.53	0.095	7.0	4.0	2.51	<0.1 TCLP LEAD			
Groundwater RCL							27.00	-	-	0.00512	1.57	0.027	0.6582	1.11	3.96				
Non-Industrial Direct Contact RCL							400.00	-	-	1.6	8.02	63.8	5.52	818	260			1.00E+00	1.00E-05
Industrial Direct Contact RCL							(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(258)			1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*							-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*		

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

**Bold & Underline = Non Industrial Direct Contact RCL Exceedance**

**(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance**

**Bold & Asteric \* = C-sat Exceedance**

*Italics = Industrial Direct Contact RCL*

NS = Not Sampled NM = Not Measured

(ppm) = parts per million ND = No Detects

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

A.2 Soil Analytical Results Table  
Luedtke Property BRRS #03-35-554426

Sampling Conducted on May 8, 2017

VOC's		Bold = Groundwater RCL	<u>Underline &amp; Bold = Non- Industrial Direct Contact RCL</u>	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C- sat) RCL
Sample ID#	G-8-2				
Sample Depth/ft.	8				
Solids Percent	86.2				
Lead/ppm	11.8	27	<u>400</u>	(800)	==
Benzene/ppm	< 0.15	0.00512	<u>1.6</u>	(7.07)	1820*
Bromobenzene/ppm	< 0.125	==	<u>342</u>	(679)	==
Bromodichloromethane/ppm	< 0.37	0.000326	<u>0.418</u>	(1.83)	==
Bromoform/ppm	< 0.145	0.00233	<u>25.4</u>	(113)	==
tert-Butylbenzene/ppm	< 0.13	==	<u>183</u>	(183)	183*
sec-Butylbenzene/ppm	1.13	==	<u>145</u>	(145)	145*
n-Butylbenzene/ppm	5.4	==	<u>108</u>	(108)	108*
Carbon Tetrachloride/ppm	< 0.08	0.00388	<u>0.916</u>	(4.03)	==
Chlorobenzene/ppm	< 0.065	==	<u>370</u>	(761)	761*
Chloroethane/ppm	< 0.455	0.227	==	==	==
Chloroform/ppm	< 0.175	0.0033	<u>0.454</u>	(1.98)	==
Chloromethane/ppm	< 0.38	0.0155	<u>159</u>	(669)	==
2-Chlorotoluene/ppm	< 0.075	==	==	==	==
4-Chlorotoluene/ppm	< 0.09	==	==	==	==
1,2-Dibromo-3-chloropropane/ppm	< 0.29	0.000173	<u>0.008</u>	(0.092)	==
Dibromochloromethane/ppm	< 0.125	0.032	<u>8.28</u>	(38.9)	==
1,4-Dichlorobenzene/ppm	< 0.185	0.144	<u>3.74</u>	(16.4)	==
1,3-Dichlorobenzene/ppm	< 0.185	1.1528	<u>297</u>	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.14	1.168	<u>376</u>	(376)	376*
Dichlorodifluoromethane/ppm	< 0.24	3.0863	<u>126</u>	(530)	==
1,2-Dichloroethane/ppm	< 0.19	0.00284	<u>0.652</u>	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.17	0.4834	<u>5.06</u>	(22.2)	==
1,1-Dichloroethene/ppm	< 0.11	0.00502	<u>320</u>	(1190)	1190*
cis-1,2-Dichloroethene/ppm	< 0.16	0.0412	<u>156</u>	(2340)	==
trans-1,2-Dichloroethene/ppm	< 0.14	0.626	<u>1560</u>	(1850)	==
1,2-Dichloropropane/ppm	< 0.175	0.00332	<u>0.406</u>	(1.78)	==
1,3-Dichloropropane/ppm	< 0.125	==	<u>1490</u>	(1490)	1490*
trans-1,3-Dichloropropene/ppm	< 0.11		<u>1510</u>	(1510)	==
cis-1,3-Dichloropropene/ppm	< 0.195	0.001	<u>1210</u>	(1210)	==
Di-isopropyl ether/ppm	< 0.05	==	<u>2260</u>	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.115	0.0000282	<u>0.05</u>	(0.221)	==
Ethylbenzene/ppm	2.11	1.57	<u>8.02</u>	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.425	==	<u>1.63</u>	(7.19)	==
Isopropylbenzene/ppm	0.9	==	==	==	==
p-Isopropyltoluene/ppm	1.4	==	<u>162</u>	(162)	162*
Methylene chloride/ppm	< 0.75	0.00256	<u>61.8</u>	(1150)	==
Methyl tert-butyl ether (MTBE)/ppm	< 0.25	0.027	<u>63.8</u>	(282)	8870*
Naphthalene/ppm	5.6	0.6582	<u>5.52</u>	(24.1)	==
n-Propylbenzene/ppm	3.8	==	==	==	==
1,1,2,2-Tetrachloroethane/ppm	< 0.14	0.000156	<u>0.81</u>	(3.6)	==
1,1,1,2-Tetrachloroethane/ppm	< 0.14	0.0534	<u>2.78</u>	(12.3)	==
Tetrachloroethene (PCE)/ppm	< 0.16	0.00454	<u>33</u>	(145)	==
Toluene/ppm	< 0.16	1.11	<u>818</u>	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.32	0.408	<u>24</u>	(113)	==
1,2,3-Trichlorobenzene/ppm	< 0.33	==	<u>62.6</u>	(934)	==
1,1,1-Trichloroethane/ppm	< 0.15	0.1402	==	==	==
1,1,2-Trichloroethane/ppm	< 0.165	0.00324	<u>1.59</u>	(7.01)	==
Trichloroethene (TCE)/ppm	< 0.205	0.00358	<u>1.3</u>	(8.41)	==
Trichlorofluoromethane/ppm	< 0.205	2.2387	<u>1230</u>	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	32	1.38	<u>219</u>	(219)	219*
1,3,5-Trimethylbenzene/ppm	9.7		<u>182</u>	(182)	182*
Vinyl Chloride/ppm	< 0.095	0.000138	<u>0.07</u>	(2.08)	==
m&p-Xylene/ppm	7.8	3.96	<u>260</u>	(260)	258*
o-Xylene/ppm	3.9				

NS = not sampled, NM = Not Measured  
(ppm) = parts per million  
== No Exceedences

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

**A.1 Groundwater Analytical Table  
(Geoprobe)  
Luedtke Property BRRTS #03-35-554426**

Sample ID	Date	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	05/08/17	NS	<b>6.8</b>	11.2	<0.43	22.6	3.04	83.6	45.8
G-2-W	05/08/17	NS	<b>36</b>	360	<4.3	97	100	357	1660
G-3-W	05/08/17	NS	<b>5.5</b>	360	<4.3	<b>114</b>	56	316	1320
G-4-W	05/08/17	NS	<0.27	13.1	<0.43	41	1.11	28.1	15.21
G-5-W	05/08/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-6-W	05/08/17	NS	<5.4	202	<8.6	<b>265</b>	41	446	949
G-7-W	05/08/17	NS	<b>39</b>	9.2	<0.43	30.7	4.3	17.2	42.2
G-8-W	05/08/17	NS	<b>19.1</b>	<b>2370</b>	<21.5	<b>750</b>	92	<b>1670</b>	<b>10600</b>
G-9-W	05/08/17	NS	4.0	680	<4.3	<b>440</b>	72	<b>1750</b>	<b>2800</b>
G-10-W	05/08/17	NS	<13.5	320	<21.5	<b>360</b>	<16.5	<b>2100</b>	1110
G-11-W	05/08/17	NS	<b>13</b>	<b>770</b>	<8.6	<b>227</b>	96	<b>814</b>	1180
G-12-W	05/08/17	NS	<b>9.1</b>	330	<8.6	<b>135</b>	46	462	1117
G-13-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-14-W	05/09/17	NS	<i>0.94</i>	6.9	<0.43	<1.7	1.61	7.37	11.22
G-15-W	05/09/17	NS	<b>5.7</b>	1.01	<0.43	<1.7	0.44	1.5	1.27-1.88
G-16-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-17-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-18-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-19-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-20-W	05/09/17	NS	<b>21.6</b>	31.5	<0.43	43	96	305	132
G-21-W	05/09/17	NS	<i>0.92</i>	1.38	<0.43	1.95	2.94	16	4.88
G-22-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-23-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-24-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-25-W	05/09/17	NS	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
<b>ENFORCEMENT STANDARD ES = Bold</b>		-	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>		-	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

METCO

Environmental Consulting, Fuel System Design, Installation and Service



**A.1 Groundwater Analytical Table**  
**Luedtke Property BRRTS #03-35-554426**

**Well MW-1**

**PVC Elevation =** 1447.71 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1440.98	6.73	2.4	9.3	108	<2.8	99	3.5	429	414
04/30/18	1441.72	5.99	7.7	5.5	112	<2.8	79	3.9	357	341
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

**PVC Elevation =** 1448.05 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1440.86	7.19	<0.9	19.2	16	<0.28	6.3	1.02	9	25.17
04/30/18	1441.68	6.37	<0.9	22.2	7.4	<0.28	4.8	0.93	4.8	33.4
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

**PVC Elevation =** 1448.19 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1440.80	7.39	<0.9	<2.2	69	<2.8	26.2	3.2	64	94
04/30/18	1441.69	6.50	<0.9	<0.22	1.8	<0.28	3.03	<0.19	<1.43	1.11
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**  
**Luedtke Property BRRTS #03-35-554426**

**Well MW-4**

PVC Elevation = 1448.13 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1440.88	7.25	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
04/30/18	1441.57	6.56	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-5**

PVC Elevation = 1447.78 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1441.03	6.75	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
04/30/18	1441.80	5.98	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-6**

PVC Elevation = 1448.31 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1441.04	7.27	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
04/30/18	1441.88	6.43	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**A.1 Groundwater Analytical Table**  
**Luedtke Property BRRTS #03-35-554426**

**Well MW-7**

**PVC Elevation =** 1449.08 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	COULD NOT LOCATE									
04/30/18	1441.83	7.25	<0.9	<0.22	<0.26	<0.28	<2.1	<0.19	<1.43	<0.72
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-8**

**PVC Elevation =** 1448.40 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1440.99	7.41	21.2	<11	1600	<14	790	29	1940	5500
04/30/18	1441.82	6.58	20.9	<11	1560	<14	490	20.5	1860	3370
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

**Well PZ-1**

**PVC Elevation =** 1447.59 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/29/18	1438.98	8.61	<0.9	7.6	311	<2.8	65	<3.8	248	816
04/30/18	1439.88	7.71	1.5	<2.2	430	<2.8	123	38	417	804
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured  
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table  
Luedtke Property BRRS #03-35-554426

Well Sampling Conducted on: 01/29/18 01/29/18 01/29/18 01/29/18 01/29/18 01/29/18 01/29/18 01/29/18 01/29/18 04/30/18

VOC's

Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-8	PZ-1	MW-7
Lead, dissolved/ppb	2.4	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	21.2	< 0.9	< 0.9
Benzene/ppb	9.3	19.2	< 2.2	< 0.22	< 0.22	< 0.22	< 11	7.6	< 0.22
Bromobenzene/ppb	< 4.4	< 0.44	< 4.4	< 0.44	< 0.44	< 0.44	< 22	< 4.4	< 0.44
Bromodichloromethane/ppb	< 3.3	< 0.33	< 3.3	< 0.33	< 0.33	< 0.33	< 16.5	< 3.3	< 0.33
Bromoform/ppb	< 4.5	< 0.45	< 4.5	< 0.45	< 0.45	< 0.45	< 22.5	< 4.5	< 0.45
tert-Butylbenzene/ppb	< 2.5	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 12.5	< 2.5	< 0.25
sec-Butylbenzene/ppb	< 7.9	< 0.79	< 7.9	< 0.79	< 0.79	< 0.79	< 39.5	< 7.9	< 0.79
n-Butylbenzene/ppb	< 7.1	< 0.71	< 7.1	< 0.71	< 0.71	< 0.71	< 35.5	< 7.1	< 0.71
Carbon Tetrachloride/ppb	< 3.1	< 0.31	< 3.1	< 0.31	< 0.31	< 0.31	< 15.5	< 3.1	< 0.31
Chlorobenzene/ppb	< 2.6	< 0.26	< 2.6	< 0.26	< 0.26	< 0.26	< 13	< 2.6	< 0.26
Chloroethane/ppb	< 6.1	< 0.61	< 6.1	< 0.61	< 0.61	< 0.61	< 30.5	< 6.1	< 0.61
Chloroform/ppb	< 2.6	< 0.26	< 2.6	< 0.26	< 0.26	< 0.26	< 13	< 2.6	< 0.26
Chloromethane/ppb	< 5.4	< 0.54	< 5.4	< 0.54	< 0.54	< 0.54	< 27	< 5.4	< 0.54
2-Chlorotoluene/ppb	< 3.1	< 0.31	< 3.1	< 0.31	< 0.31	< 0.31	< 15.5	< 3.1	< 0.31
4-Chlorotoluene/ppb	< 2.6	< 0.26	< 2.6	< 0.26	< 0.26	< 0.26	< 13	< 2.6	< 0.26
1,2-Dibromo-3-chloropropane/ppb	< 29.6	< 2.96	< 29.6	< 2.96	< 2.96	< 2.96	< 148	< 29.6	< 2.96
Dibromochloromethane/ppb	< 2.2	< 0.22	< 2.2	< 0.22	< 0.22	< 0.22	< 11	< 2.2	< 0.22
1,4-Dichlorobenzene/ppb	< 7	< 0.7	< 7	< 0.7	< 0.7	< 0.7	< 35	< 7	< 0.7
1,3-Dichlorobenzene/ppb	< 8.5	< 0.85	< 8.5	< 0.85	< 0.85	< 0.85	< 42.5	< 8.5	< 0.85
1,2-Dichlorobenzene/ppb	< 8.6	< 0.86	< 8.6	< 0.86	< 0.86	< 0.86	< 43	< 8.6	< 0.86
Dichlorodifluoromethane/ppb	< 3.2	< 0.32	< 3.2	< 0.32	< 0.32	< 0.32	< 16	< 3.2	< 0.32
1,2-Dichloroethane/ppb	< 2.5	< 0.25	< 2.5	< 0.25	< 0.25	< 0.25	< 12.5	< 2.5	< 0.25
1,1-Dichloroethane/ppb	< 3.6	< 0.36	< 3.6	< 0.36	< 0.36	< 0.36	< 18	< 3.6	< 0.36
1,1-Dichloroethene/ppb	< 4.2	< 0.42	< 4.2	< 0.42	< 0.42	< 0.42	< 21	< 4.2	< 0.42
cis-1,2-Dichloroethene/ppb	< 3.7	< 0.37	< 3.7	< 0.37	< 0.37	< 0.37	< 18.5	< 3.7	< 0.37
trans-1,2-Dichloroethene/ppb	< 3.4	< 0.34	< 3.4	< 0.34	< 0.34	< 0.34	< 17	< 3.4	< 0.34
1,2-Dichloropropane/ppb	< 4.4	< 0.44	< 4.4	< 0.44	< 0.44	< 0.44	< 22	< 4.4	< 0.44
1,3-Dichloropropane/ppb	< 3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 15	< 3	< 0.3
trans-1,3-Dichloropropene/ppm	< 3.2	< 0.32	< 3.2	< 0.32	< 0.32	< 0.32	< 16	< 3.2	< 0.32
cis-1,3-Dichloropropene/ppm	< 2.6	< 0.26	< 2.6	< 0.26	< 0.26	< 0.26	< 13	< 2.6	< 0.26
Diisopropyl ether/ppb	< 2.1	< 0.21	< 2.1	< 0.21	< 0.21	< 0.21	< 10.5	< 2.1	< 0.21
EDB (1,2-Dibromoethane)/ppb	< 3.4	< 0.34	< 3.4	< 0.34	< 0.34	< 0.34	< 17	< 3.4	< 0.34
Ethylbenzene/ppb	108	16	69	< 0.26	< 0.26	< 0.26	1600	311	< 0.26
Hexachlorobutadiene/ppb	< 13.4	< 1.34	< 13.4	< 1.34	< 1.34	< 1.34	< 67	< 13.4	< 1.34
Isopropylbenzene/ppb	25.1	2.13 "J"	15.5 "J"	< 0.78	< 0.78	< 0.78	108 "J"	28.9	< 0.78
p-Isopropyltoluene/ppb	3.5 "J"	< 0.24	< 2.4	< 0.24	< 0.24	< 0.24	14.5 "J"	3.8 "J"	< 0.24
Methylene chloride/ppb	< 13.2	< 1.32	< 13.2	< 1.32	< 1.32	< 1.32	< 66	< 13.2	< 1.32
Methyl tert-butyl ether (MTBE)/ppb	< 2.8	< 0.28	< 2.8	< 0.28	< 0.28	< 0.28	< 14	< 2.8	< 0.28
Naphthalene/ppb	99	6.3 "J"	26.2 "J"	< 2.1	< 2.1	< 2.1	790	65 "J"	< 2.1
n-Propylbenzene/ppb	41	2.83	14.5 "J"	< 0.61	< 0.61	< 0.61	197	33	< 0.61
1,1,2,2-Tetrachloroethane/ppb	< 3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 15	< 3	< 0.3
1,1,1,2-Tetrachloroethane/ppb	< 3.5	< 0.35	< 3.5	< 0.35	< 0.35	< 0.35	< 17.5	< 3.5	< 0.35
Tetrachloroethene (PCE)/ppb	< 3.8	< 0.38	< 3.8	< 0.38	< 0.38	< 0.38	< 19	< 3.8	< 0.38
Toluene/ppb	3.5 "J"	1.02	3.2 "J"	< 0.19	< 0.19	< 0.19	29 "J"	42	< 0.19
1,2,4-Trichlorobenzene/ppb	< 11.5	< 1.15	< 11.5	< 1.15	< 1.15	< 1.15	< 57.5	< 11.5	< 1.15
1,2,3-Trichlorobenzene/ppb	< 17.1	< 1.71	< 17.1	< 1.71	< 1.71	< 1.71	< 85.5	< 17.1	< 1.71
1,1,1-Trichloroethane/ppb	< 3.3	< 0.33	< 3.3	< 0.33	< 0.33	< 0.33	< 16.5	< 3.3	< 0.33
1,1,2-Trichloroethane/ppb	< 4.2	< 0.42	< 4.2	< 0.42	< 0.42	< 0.42	< 21	< 4.2	< 0.42
Trichloroethene (TCE)/ppb	< 3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 15	< 3	< 0.3
Trichlorofluoromethane/ppb	< 3.5	< 0.35	< 3.5	< 0.35	< 0.35	< 0.35	< 17.5	< 3.5	< 0.35
1,2,4-Trimethylbenzene/ppb	330	5.2	51	< 0.8	< 0.8	< 0.8	1580	186	< 0.8
1,3,5-Trimethylbenzene/ppb	99	3.8	13 "J"	< 0.63	< 0.63	< 0.63	360	62	< 0.63
Vinyl Chloride/ppb	< 2	< 0.2	< 2	< 0.2	< 0.2	< 0.2	< 10	< 2	< 0.2
m&p-Xylene/ppb	350	23.2	86	< 0.43	< 0.43	< 0.43	4200	710	< 0.43
o-Xylene/ppb	64	1.97	8.0 "J"	< 0.29	< 0.29	< 0.29	1300	106	< 0.29

ENFORCEMENT STANDARD = ES - Bold	PREVENTIVE ACTION LIMIT = PAL - Italics
----------------------------------	---

15	1.5
5	0.5
==	==
0.6	0.06
4.4	0.44
==	==
5	0.5
==	==
400	80
6	0.6
30	3
==	==
0.2	0.02
60	6
75	15
600	120
600	60
1000	200
5	0.5
850	85
7	0.7
70	7
100	20
5	0.5
==	==
0.4	0.04
==	==
0.05	0.005
700	140
==	==
0.2	0.02
70	7
5	0.5
800	160
70	14
==	==
200	40
5	0.5
5	0.5
==	==
Total TMB's 480	Total TMB's 96
0.2	0.02
Total Xylenes 2000	Total Xylenes 400

NS = not sampled, NM = Not Measured  
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.  
= = No Exceedences  
(ppb) = parts per billion  
(ppm) = parts per million  
"J" Flag: Analyte detected between LOD and LOQ/LOD Limit of Detection/LOQ Limit of Quantitation

**A.6 Water Level Elevations**  
**Luedtke Property BRRTS #03-35-554426**  
**Tomahawk, Wisconsin**

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	PZ-1
<b>Ground Surface (feet msl)</b>	1448.15	1448.43	1448.80	1448.52	1448.23	1448.66	1449.44	1448.71	1448.13
<b>PVC top (feet msl)</b>	1447.71	1448.05	1448.19	1448.13	1447.78	1448.31	1449.08	1448.40	1447.59
<b>Well Depth (feet)</b>	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	30.00
<b>Top of screen (feet msl)</b>	1443.15	1443.43	1443.80	1443.52	1443.23	1443.66	1444.44	1443.71	1423.13
<b>Bottom of screen (feet msl)</b>	1433.15	1433.43	1433.80	1433.52	1433.23	1433.66	1434.44	1433.71	1418.13
<b>Depth to Water From Top of PVC (feet)</b>									
01/29/18	6.73	7.19	7.39	7.25	6.75	7.27	CNL	7.41	8.61
04/30/18	5.99	6.37	6.50	6.56	5.98	6.43	7.25	6.58	7.71
<b>Depth to Water From Ground Surface (feet)</b>									
01/29/18	7.17	7.57	8.00	7.64	7.20	7.62	CNL	7.72	9.15
04/30/18	6.43	6.75	7.11	6.95	6.43	6.78	7.61	6.89	8.25
<b>Groundwater Elevation (feet msl)</b>									
01/29/18	1440.98	1440.86	1440.80	1440.88	1441.03	1441.04	CNL	1440.99	1438.98
04/30/18	1441.72	1441.68	1441.69	1441.57	1441.80	1441.88	1441.83	1441.82	1439.88

CNL = Could Not Locate  
A = Abandoned and removed during soil excavation project  
NI = Not Installed

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Luedtke Property BRRTS #03-35-554426**

**Well MW-1**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	3.94	6.20	36.4	6.33	1813	<0.36	21.4	5.68	1040
04/30/18	1.18	6.49	21	7.8	1910	NS	NS	NS	NS
ENFORCEMENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	3.46	5.54	101.8	7.73	1411	<0.36	9.90	10.1	2270
04/30/18	0.57	5.89	72	9.5	985	NS	NS	NS	NS
ENFORCEMENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	3.14	6.50	32.8	10.16	717	<0.36	38.6	0.98	839
04/30/18	2.56	7.32	225	12	1170	NS	NS	NS	NS
ENFORCEMENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-4**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	5.30	7.35	257.9	7.22	369	2.16	33.8	0.18	36.8
04/30/18	5.35	6.41	222	10.0	944	NS	NS	NS	NS
ENFORCEMENT STANDARD = <b>ES – Bold</b>						10	-	-	300
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other  
Groundwater NA Indicator Results  
Luedtke Property BRRTS #03-35-554426**

**Well MW-5**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	7.28	7.65	230.7	5.14	680	2.13	19.7	<0.03	9.0
04/30/18	5.80	7.64	201	9.7	559	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-6**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	5.59	7.72	291.1	7.43	304	1.18	18.5	0.05	27.2
04/30/18	9.16	7.39	257	7.4	290.9	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-7**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	COULD NOT LOCATE								
04/30/18	4.73	7.12	231	9.8	379.7	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-8**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	3.40	6.32	-71.7	7.61	412	<0.36	31.4	29.0	1520
04/30/18	0.69	6.52	6	8.7	523	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES – Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<b>2</b>	-	-	<b>60</b>

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Luedtke Property BRRTS #03-35-554426**

**Well PZ-1**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp ( C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
01/29/18	3.72	5.87	70.5	8.82	773	<0.36	4.53	23.4	<b>1930</b>
04/30/18	1.05	6.36	41	9.9	902	NS	NS	NS	NS
<b>ENFORCEMENT STANDARD = ES - Bold</b>						<b>10</b>	-	-	<b>300</b>
<b>PREVENTIVE ACTION LIMIT = PAL - Italics</b>						<i>2</i>	-	-	<i>60</i>

(ppb) = parts per billion    (ppm) = parts per million  
 ns = not sampled            nm = not measured            ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).



**A.7 Other  
Luedtke Property  
Slug Test Calculations**

**MW-1**

	<b>ft/s</b>	<b>cm/s</b>	<b>m/yr</b>
<b>K</b>	2.32E-05	7.07E-04	223.00
	<b>sq ft/s</b>	<b>sq cm/s</b>	
<b>T</b>	1.92E-04	1.78E-01	

**MW-8**

	<b>ft/s</b>	<b>cm/s</b>	<b>m/yr</b>
<b>K</b>	1.49E-05	4.54E-04	143.22
	<b>sq ft/s</b>	<b>sq cm/s</b>	
<b>T</b>	1.13E-04	1.05E-01	

**PZ-1**

	<b>ft/s</b>	<b>cm/s</b>	<b>m/yr</b>
<b>K</b>	1.22E-05	3.72E-04	117.27
	<b>sq ft/s</b>	<b>sq cm/s</b>	
<b>T</b>	2.60E-04	2.41E-01	

<b>Date</b>	<b>Elv. (High)</b>	<b>Elv. (Low)</b>	<b>Distance (ft)</b>	<b>Hyd Grad (I)</b>
1/29/2018	1441.00	1440.85	69	0.0021739
4/30/2018	1441.80	1441.60	85	0.0023529
<b>Average</b>				0.0022634

	<b>K (m/yr)</b>	<b>I</b>	<b>n</b>	<b>Flow Velocity (m/yr)</b>
<b>MW-1</b>	223.00	0.0022634	0.3	1.68246
<b>MW-8</b>	143.22	0.0022634	0.3	1.08055
<b>PZ-1</b>	117.27	0.0022634	0.3	0.88476

**Site Investigation Report - METCO  
Luedtke Property  
8.0 PHOTOS**

**Photos**

Photo #1: Looking southwest.



Photo #2: Looking south.



Photo #3: Looking north/northeast.



Photo #4: Looking north.



Site Investigation Report - METCO  
Luedtke Property  
**APPENDIX A/ METHODS OF INVESTIGATION**

**Site Investigation Report - METCO  
Luedtke Property  
Geoprobe Project**

Geoprobe sampling was completed by Geiss Soil & Samples LLC, Merrill, Wisconsin, under the supervision of METCO personnel. The Geoprobe consists of a truck or track-mounted, hydraulically driven unit that advances interconnected, 1-inch diameter, 4-foot-long, and stainless-steel rods into the subsurface.

Field observations such as soil characteristics, petroleum odors, and petroleum staining associated with all the collected samples were continuously noted throughout sampling. All Geoprobe holes were properly abandoned to ground level using bentonite clay.

The purpose of the Geoprobe Project was to cost effectively determine, if the released contaminants have impacted the soil and groundwater, and determine the general extent of contamination along those mediums. This collected information would then be used to guide the Drilling Project, if required.

**Geoprobe Soil Sampling**

The procedure consisted of advancing an assembled stainless-steel sampler to the top of the interval to be sampled. A stop-pin was then removed, and the sampler driven until filled. The rods were retracted from the hole and the sample recovered.

**Geoprobe Groundwater Sampling**

This procedure consisted of advancing a stainless steel, mill slotted well point into the watertable interface. Disposable, flexible, ¼ inch diameter polyethylene tubing was then introduced through the steel rods and down to the watertable interface. A hand-held pump was used to slowly draw an undisturbed water sample into the polyethylene tube, which was then removed from the steel rods and the water sample immediately placed into sampling containers.

**Drilling Project**

Soil borings were conducted by Geiss Soil & Samples LLC, Merrill, Wisconsin, under the supervision of METCO personnel. Using a truck-mounted auger drill rig, all borings were completed in accordance with ASTM D-1452, "Soil Investigation and Sampling by Auger Boring," using 4.25-inch, inside-diameter (ID) augers. Soil sampling was conducted using a Geoprobe.

Field observations such as soil characteristics, petroleum odors, and petroleum staining were continuously noted throughout the drilling process.

The purpose of the Drilling Project and subsequent well installation/sampling was to investigate subsurface conditions and characteristics, verify the extent of petroleum contamination in local soil and groundwater, and collect aquifer data.

**Site Investigation Report - METCO  
Luedtke Property  
Field Screening**

Selected soil samples were scanned with a Rae Systems Mini Raelite Photo-ionization Detector (PID) equipped with a 10.6 eV lamp. Metered calibrations were done at the beginning of each workday using an isobutylene standard. A quart sized Ziploc bag was filled, by gloved hand, one-third full with the sample. The Ziploc bags were sealed and shaken vigorously for 30 seconds. Headspace development was established by allowing the sample to rest for at least 15 minutes. If ambient temperatures are below 70 degrees Fahrenheit, headspace development takes place in a heated environment, which allows the sample enough time to establish satisfactory headspace. To take readings, the PID probe was inserted through the Ziploc seal and the highest meter response recorded.

Throughout the field projects the PID Meter did not encounter any vast temperature or humidity changes, malfunctions, repairs, or any other obvious interferences that would affect its results.

### **Monitoring Well Installation, Development, and Sampling**

Monitoring/piezometer well installation was completed by Geiss Soil & Samples LLC, under the supervision of METCO personnel and done in accordance with Wisconsin Department of Natural Resources Chapter NR141, "Groundwater Monitoring Well Requirements." The monitoring/piezometer wells were constructed of flush threaded, 2-inch inside-diameter schedule 40 polyvinyl chloride (PVC) piping. Ten-foot well screens with 0.010-inch slots were installed partially into the groundwater for the monitoring wells, and a five-foot well screen with 0.010-inch slots was installed for the piezometer, with the watertable intersecting the screen. Uniform washed sand was installed around the well screens to serve as a filter pack. Bentonite was used above the filter pack to provide an annular space seal.

Locking watertight caps along with steel flush-mounted covers were installed with the wells for protection. Monitoring Well Construction Forms and a Groundwater Monitoring Well Information Form are presented in Appendix C.

The wells were surveyed by Fauerbach Surveying & Engineering of Hillsboro, Wisconsin and by METCO personnel. Measurements were recorded in feet mean sea level.

Each well was alternately surged and purged by METCO personnel with a bottom loading, disposable, polyethylene bailer for 15-20 minutes to remove fines from the well screen. Approximately 20-90 gallons of groundwater was then removed with a small electrical submersible pump. Well Development Forms are presented in Appendix C.

Groundwater samples for laboratory analysis were collected using a bottom loading, disposable, polyethylene bailer and disposable, polyethylene twine. A minimum of four well volumes was purged from the well immediately before sampling.

Field observations such as color, turbidity, petroleum odors, and petroleum sheens associated with the collected samples were continuously noted throughout sampling.

### **Sample Preparation**

The volume of sample, size of container, and type of sample preservation was dependent on the specific parameter for which the sample was to be analyzed. Parameter specific information is presented in the LUST Sample Guidelines located in Appendix E.

**Site Investigation Report - METCO  
Luedtke Property**

## **Field Sampling and Transportation Quality Control**

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

## **Laboratory Quality Control**

See Appendix B for the results of any field blanks, trip blanks, temperature blanks, lab spikes, split samples, replicate spikes, and duplicates.

## **Investigative Wastes**

On December 12, 2017, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of 9 drums of soil cuttings and 2 drums of purge water at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.



Site Investigation Report - METCO

Luedtke Property

**APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS**

# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TODD LUEDTKE  
TODD LUEDTKE  
426 CROWFOOT AVE.,  
FOND DU LAC, WI 54935

Report Date 24-May-17

Project Name LUEDTKE PROPERTY  
Project #

Invoice # E32892

Lab Code 5032892A  
Sample ID MEOH BLANK  
Sample Matrix Soil  
Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021	5/12/2017	5/12/2017	TCC	1

Project #

Lab Code 5032892B  
 Sample ID G-1-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.1	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	1.58	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/12/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/12/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/12/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/12/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/12/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/12/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/12/2017	TCC	1

Lab Code 5032892C  
 Sample ID G-1-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.4	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/12/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/12/2017	TCC	1
Naphthalene	0.259	mg/kg	0.022	0.07	1	GRO95/8021		5/12/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/12/2017	TCC	1
1,2,4-Trimethylbenzene	0.302	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
1,3,5-Trimethylbenzene	0.154	mg/kg	0.011	0.036	1	GRO95/8021		5/12/2017	TCC	1
m&p-Xylene	0.065	mg/kg	0.012	0.037	1	GRO95/8021		5/12/2017	TCC	1
o-Xylene	0.059	mg/kg	0.015	0.047	1	GRO95/8021		5/12/2017	TCC	1

Project #

Lab Code 5032892D  
 Sample ID G-2-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.6	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	1.35	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/12/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/12/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/12/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/12/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/12/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/12/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/12/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/12/2017	TCC	1

Lab Code 5032892E  
 Sample ID G-2-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.030 "J"	mg/kg	0.019	0.06	1	GRO95/8021		5/13/2017	TCC	1
Ethylbenzene	0.073	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/13/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/13/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/13/2017	TCC	1
1,2,4-Trimethylbenzene	0.078	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/13/2017	TCC	1
m&p-Xylene	0.254	mg/kg	0.012	0.037	1	GRO95/8021		5/13/2017	TCC	1
o-Xylene	0.129	mg/kg	0.015	0.047	1	GRO95/8021		5/13/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 5032892F  
 Sample ID G-3-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.4	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	3.43	mg/Kg	0.85	2.9	5	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/13/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/13/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/13/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/13/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/13/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/13/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/13/2017	TCC	1

Lab Code 5032892G  
 Sample ID G-3-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.1	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/13/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/13/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/13/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/13/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/13/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/13/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/13/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/13/2017	TCC	1

Project #

Lab Code 5032892H  
 Sample ID G-4-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.2	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	35.8	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	0.081	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	0.080	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.043	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.088	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	0.044 "J"	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 5032892I  
 Sample ID G-4-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	0.044	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	0.094	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.126	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	0.055	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.057	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project #

Lab Code 5032892J  
 Sample ID G-5-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.5	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	132	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 5032892K  
 Sample ID G-5-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.9	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project #

Lab Code 5032892L  
 Sample ID G-6-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	97.0	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	2.91	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/19/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/19/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/19/2017	TCC	1

Lab Code 5032892M  
 Sample ID G-6-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.2	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	0.289	mg/kg	0.01	0.032	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	3.1	mg/kg	0.022	0.07	1	GRO95/8021		5/17/2017	TCC	1
Toluene	0.079	mg/kg	0.014	0.046	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	3.3	mg/kg	0.01	0.032	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	1.17	mg/kg	0.011	0.036	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	1.33	mg/kg	0.012	0.037	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	0.67	mg/kg	0.015	0.047	1	GRO95/8021		5/17/2017	TCC	1



Project #

Lab Code 5032892N  
 Sample ID G-7-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.1	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	14.6	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 5032892O  
 Sample ID G-7-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	72.1	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.072	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	0.065	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	0.063 "J"	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.060	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	0.0287 "J"	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.211	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	0.105	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project #

Lab Code 5032892P  
 Sample ID G-8-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.6	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	44.0	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project #

Lab Code 5032892Q  
 Sample ID G-8-2  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	11.8	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
VOC's										
Benzene	< 0.15	mg/kg	0.15	4.8	5	8260B		5/19/2017	CJR	1
Bromobenzene	< 0.125	mg/kg	0.125	0.405	5	8260B		5/19/2017	CJR	1
Bromodichloromethane	< 0.37	mg/kg	0.37	1.2	5	8260B		5/19/2017	CJR	1
Bromoform	< 0.145	mg/kg	0.145	0.46	5	8260B		5/19/2017	CJR	1
tert-Butylbenzene	< 0.13	mg/kg	0.13	0.42	5	8260B		5/19/2017	CJR	1
sec-Butylbenzene	1.13	mg/kg	0.165	0.5	5	8260B		5/19/2017	CJR	1
n-Butylbenzene	5.4	mg/kg	0.2	0.65	5	8260B		5/19/2017	CJR	1
Carbon Tetrachloride	< 0.08	mg/kg	0.08	0.265	5	8260B		5/19/2017	CJR	1
Chlorobenzene	< 0.065	mg/kg	0.065	0.2	5	8260B		5/19/2017	CJR	1
Chloroethane	< 0.455	mg/kg	0.455	1.45	5	8260B		5/19/2017	CJR	1
Chloroform	< 0.175	mg/kg	0.175	0.55	5	8260B		5/19/2017	CJR	1
Chloromethane	< 0.38	mg/kg	0.38	1.2	5	8260B		5/19/2017	CJR	1
2-Chlorotoluene	< 0.075	mg/kg	0.075	0.235	5	8260B		5/19/2017	CJR	1
4-Chlorotoluene	< 0.09	mg/kg	0.09	0.285	5	8260B		5/19/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 0.29	mg/kg	0.29	0.9	5	8260B		5/19/2017	CJR	1
Dibromochloromethane	< 0.125	mg/kg	0.125	0.395	5	8260B		5/19/2017	CJR	1
1,4-Dichlorobenzene	< 0.185	mg/kg	0.185	0.6	5	8260B		5/19/2017	CJR	1
1,3-Dichlorobenzene	< 0.185	mg/kg	0.185	0.6	5	8260B		5/19/2017	CJR	1
1,2-Dichlorobenzene	< 0.14	mg/kg	0.14	0.44	5	8260B		5/19/2017	CJR	1
Dichlorodifluoromethane	< 0.24	mg/kg	0.24	0.75	5	8260B		5/19/2017	CJR	1
1,2-Dichloroethane	< 0.19	mg/kg	0.19	0.6	5	8260B		5/19/2017	CJR	1
1,1-Dichloroethane	< 0.17	mg/kg	0.17	0.55	5	8260B		5/19/2017	CJR	1
1,1-Dichloroethene	< 0.11	mg/kg	0.11	0.345	5	8260B		5/19/2017	CJR	1
cis-1,2-Dichloroethene	< 0.16	mg/kg	0.16	0.5	5	8260B		5/19/2017	CJR	1
trans-1,2-Dichloroethene	< 0.14	mg/kg	0.14	0.45	5	8260B		5/19/2017	CJR	1
1,2-Dichloropropane	< 0.175	mg/kg	0.175	0.55	5	8260B		5/19/2017	CJR	1
1,3-Dichloropropane	< 0.125	mg/kg	0.125	0.395	5	8260B		5/19/2017	CJR	1
trans-1,3-Dichloropropene	< 0.11	mg/kg	0.11	0.34	5	8260B		5/19/2017	CJR	1
cis-1,3-Dichloropropene	< 0.195	mg/kg	0.195	0.6	5	8260B		5/19/2017	CJR	1
Di-isopropyl ether	< 0.05	mg/kg	0.05	0.16	5	8260B		5/19/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.115	mg/kg	0.115	0.36	5	8260B		5/19/2017	CJR	1
Ethylbenzene	2.11	mg/kg	0.175	0.55	5	8260B		5/19/2017	CJR	1
Hexachlorobutadiene	< 0.425	mg/kg	0.425	1.35	5	8260B		5/19/2017	CJR	1
Isopropylbenzene	0.90	mg/kg	0.17	0.55	5	8260B		5/19/2017	CJR	1
p-Isopropyltoluene	1.4	mg/kg	0.145	0.465	5	8260B		5/19/2017	CJR	1
Methylene chloride	< 0.75	mg/kg	0.75	2.3	5	8260B		5/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.25	0.8	5	8260B		5/19/2017	CJR	1
Naphthalene	5.6	mg/kg	0.47	1.5	5	8260B		5/19/2017	CJR	1
n-Propylbenzene	3.8	mg/kg	0.165	0.5	5	8260B		5/19/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.14	mg/kg	0.14	4.4	5	8260B		5/19/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.14	mg/kg	0.14	0.45	5	8260B		5/19/2017	CJR	1
Tetrachloroethene	< 0.16	mg/kg	0.16	0.5	5	8260B		5/19/2017	CJR	1
Toluene	< 0.16	mg/kg	0.16	0.5	5	8260B		5/19/2017	CJR	1

Project #

Lab Code 5032892Q  
 Sample ID G-8-2  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trichlorobenzene	< 0.32	mg/kg	0.32		1	5 8260B		5/19/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.33	mg/kg	0.33		1.05	5 8260B		5/19/2017	CJR	1
1,1,1-Trichloroethane	< 0.15	mg/kg	0.15		4.8	5 8260B		5/19/2017	CJR	1
1,1,2-Trichloroethane	< 0.165	mg/kg	0.165		0.55	5 8260B		5/19/2017	CJR	1
Trichloroethene (TCE)	< 0.205	mg/kg	0.205		0.65	5 8260B		5/19/2017	CJR	1
Trichlorofluoromethane	< 0.205	mg/kg	0.205		0.65	5 8260B		5/19/2017	CJR	1
1,2,4-Trimethylbenzene	32	mg/kg	0.125		0.4	5 8260B		5/19/2017	CJR	1
1,3,5-Trimethylbenzene	9.7	mg/kg	0.16		0.5	5 8260B		5/19/2017	CJR	1
Vinyl Chloride	< 0.095	mg/kg	0.095		0.31	5 8260B		5/19/2017	CJR	1
m&p-Xylene	7.8	mg/kg	0.36		1.15	5 8260B		5/19/2017	CJR	1
o-Xylene	3.9	mg/kg	0.22		0.7	5 8260B		5/19/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %				5 8260B		5/19/2017	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %				5 8260B		5/19/2017	CJR	1
SUR - Dibromofluoromethane	95	Rec %				5 8260B		5/19/2017	CJR	1
SUR - Toluene-d8	103	Rec %				5 8260B		5/19/2017	CJR	1

Lab Code 5032892R  
 Sample ID G-9-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.8	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	1.17	mg/Kg	0.34		1.16	2 6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019		0.06	1 GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01		0.032	1 GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079		0.025	1 GRO95/8021		5/17/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022		0.07	1 GRO95/8021		5/17/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014		0.046	1 GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01		0.032	1 GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011		0.036	1 GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012		0.037	1 GRO95/8021		5/17/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015		0.047	1 GRO95/8021		5/17/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 5032892S  
 Sample ID G-9-2  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.125	mg/kg	0.095	0.3	5	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	0.32	mg/kg	0.05	0.16	5	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		5/17/2017	TCC	1
Naphthalene	2.63	mg/kg	0.11	0.35	5	GRO95/8021		5/17/2017	TCC	1
Toluene	< 0.125	mg/kg	0.07	0.23	5	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	8.5	mg/kg	0.05	0.16	5	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	9.9	mg/kg	0.055	0.18	5	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	2.08	mg/kg	0.06	0.185	5	GRO95/8021		5/17/2017	TCC	1
o-Xylene	1.19	mg/kg	0.075	0.235	5	GRO95/8021		5/17/2017	TCC	1

Lab Code 5032892T  
 Sample ID G-10-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	96.6	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	4.00	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 5032892U  
 Sample ID G-10-2  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.79	mg/kg	0.095	0.3	5	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	1.87	mg/kg	0.05	0.16	5	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		5/17/2017	TCC	1
Naphthalene	2.1	mg/kg	0.11	0.35	5	GRO95/8021		5/17/2017	TCC	1
Toluene	2.11	mg/kg	0.07	0.23	5	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	4.1	mg/kg	0.05	0.16	5	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	26	mg/kg	0.055	0.18	5	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	11.5	mg/kg	0.06	0.185	5	GRO95/8021		5/17/2017	TCC	1
o-Xylene	2.08	mg/kg	0.075	0.235	5	GRO95/8021		5/17/2017	TCC	1

Lab Code 5032892V  
 Sample ID G-11-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.4	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	3.96	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 5032892W  
 Sample ID G-11-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.032 "J"	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	0.0305 "J"	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.094	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	0.032 "J"	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.247	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	0.073	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 5032892X  
 Sample ID G-12-1  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.2	%			1	5021		5/11/2017	NJC	1
Inorganic										
Metals										
Lead, Total	5.40	mg/Kg	0.34	1.16	2	6010B		5/19/2017	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 5032892Y  
 Sample ID G-12-3  
 Sample Matrix Soil  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.4	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	0.049	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.168	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	0.062	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.219	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	0.052	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 5032892Z  
 Sample ID TRIP BLANK  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/17/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/17/2017	TCC	1

Lab Code 52892AAA  
 Sample ID G-23-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/18/2017	TCC	1



Project Name LUEDTKE PROPERTY  
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Invoice # E32892

Lab Code 52892BBB  
 Sample ID G-24-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/18/2017	TCC	1

Lab Code 52892CCC  
 Sample ID G-25-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/19/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/19/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/19/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/19/2017	TCC	1

Lab Code 532892AA  
 Sample ID G-1-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	6.8	ug/l	0.27	0.87	1	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	11.2	ug/l	0.56	1.77	1	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/19/2017	TCC	1
Naphthalene	22.6	ug/l	1.7	5.27	1	GRO95/8021		5/19/2017	TCC	1
Toluene	3.04	ug/l	0.33	1.06	1	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	63	ug/l	0.56	1.78	1	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	20.6	ug/l	0.58	1.84	1	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	29.4	ug/l	1.1	3.49	1	GRO95/8021		5/19/2017	TCC	1
o-Xylene	16.4	ug/l	0.61	1.92	1	GRO95/8021		5/19/2017	TCC	1

Project #

Lab Code 532892BB  
 Sample ID G-2-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	36	ug/l	2.7	8.7	10	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	360	ug/l	5.6	17.7	10	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 4.3	ug/l	4.3	13.6	10	GRO95/8021		5/19/2017	TCC	1
Naphthalene	97	ug/l	17	52.7	10	GRO95/8021		5/19/2017	TCC	1
Toluene	100	ug/l	3.3	10.6	10	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	281	ug/l	5.6	17.8	10	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	76	ug/l	5.8	18.4	10	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	1200	ug/l	11	34.9	10	GRO95/8021		5/19/2017	TCC	1
o-Xylene	460	ug/l	6.1	19.2	10	GRO95/8021		5/19/2017	TCC	1

Lab Code 532892CC  
 Sample ID G-3-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5.5 "J"	ug/l	2.7	8.7	10	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	360	ug/l	5.6	17.7	10	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 4.3	ug/l	4.3	13.6	10	GRO95/8021		5/18/2017	TCC	1
Naphthalene	114	ug/l	17	52.7	10	GRO95/8021		5/18/2017	TCC	1
Toluene	56	ug/l	3.3	10.6	10	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	241	ug/l	5.6	17.8	10	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	75	ug/l	5.8	18.4	10	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	1010	ug/l	11	34.9	10	GRO95/8021		5/18/2017	TCC	1
o-Xylene	310	ug/l	6.1	19.2	10	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892DD  
 Sample ID G-4-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	13.1	ug/l	0.56	1.77	1	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/19/2017	TCC	1
Naphthalene	41	ug/l	1.7	5.27	1	GRO95/8021		5/19/2017	TCC	1
Toluene	1.11	ug/l	0.33	1.06	1	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	20.3	ug/l	0.56	1.78	1	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	7.8	ug/l	0.58	1.84	1	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	12.3	ug/l	1.1	3.49	1	GRO95/8021		5/19/2017	TCC	1
o-Xylene	2.91	ug/l	0.61	1.92	1	GRO95/8021		5/19/2017	TCC	1

Project #

Lab Code 532892EE  
 Sample ID G-5-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892FF  
 Sample ID G-6-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 5.4	ug/l	5.4	17.4	20	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	202	ug/l	11.2	35.4	20	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 8.6	ug/l	8.6	27.2	20	GRO95/8021		5/18/2017	TCC	1
Naphthalene	265	ug/l	34	105.4	20	GRO95/8021		5/18/2017	TCC	1
Toluene	41	ug/l	6.6	21.2	20	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	340	ug/l	11.2	35.6	20	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	106	ug/l	11.6	36.8	20	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	700	ug/l	22	69.8	20	GRO95/8021		5/18/2017	TCC	1
o-Xylene	249	ug/l	12.2	38.4	20	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892GG  
 Sample ID G-7-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	39	ug/l	0.27	0.87	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	9.2	ug/l	0.56	1.77	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	30.7	ug/l	1.7	5.27	1	GRO95/8021		5/17/2017	TCC	1
Toluene	4.3	ug/l	0.33	1.06	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	11.9	ug/l	0.56	1.78	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	5.3	ug/l	0.58	1.84	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	21	ug/l	1.1	3.49	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	22.2	ug/l	0.61	1.92	1	GRO95/8021		5/17/2017	TCC	1

Project #

Lab Code 532892HH  
 Sample ID G-8-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	19.1 "J"	ug/l	13.5	43.5	50	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	2370	ug/l	28	88.5	50	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 21.5	ug/l	21.5	68	50	GRO95/8021		5/18/2017	TCC	1
Naphthalene	750	ug/l	85	263.5	50	GRO95/8021		5/18/2017	TCC	1
Toluene	92	ug/l	16.5	53	50	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	1340	ug/l	28	89	50	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	330	ug/l	29	92	50	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	7400	ug/l	55	174.5	50	GRO95/8021		5/18/2017	TCC	1
o-Xylene	3200	ug/l	30.5	96	50	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892II  
 Sample ID G-9-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	4.0 "J"	ug/l	2.7	8.7	10	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	680	ug/l	5.6	17.7	10	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 4.3	ug/l	4.3	13.6	10	GRO95/8021		5/18/2017	TCC	1
Naphthalene	440	ug/l	17	52.7	10	GRO95/8021		5/18/2017	TCC	1
Toluene	72	ug/l	3.3	10.6	10	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	1340	ug/l	5.6	17.8	10	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	410	ug/l	5.8	18.4	10	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	1880	ug/l	11	34.9	10	GRO95/8021		5/18/2017	TCC	1
o-Xylene	920	ug/l	6.1	19.2	10	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892JJ  
 Sample ID G-10-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 13.5	ug/l	13.5	43.5	50	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	320	ug/l	28	88.5	50	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 21.5	ug/l	21.5	68	50	GRO95/8021		5/18/2017	TCC	1
Naphthalene	360	ug/l	85	263.5	50	GRO95/8021		5/18/2017	TCC	1
Toluene	< 16.5	ug/l	16.5	53	50	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	1600	ug/l	28	89	50	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	500	ug/l	29	92	50	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	790	ug/l	55	174.5	50	GRO95/8021		5/18/2017	TCC	1
o-Xylene	320	ug/l	30.5	96	50	GRO95/8021		5/18/2017	TCC	1

Project #

Lab Code 532892KK  
 Sample ID G-11-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	13 "J"	ug/l	5.4	17.4	20	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	770	ug/l	11.2	35.4	20	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 8.6	ug/l	8.6	27.2	20	GRO95/8021		5/18/2017	TCC	1
Naphthalene	227	ug/l	34	105.4	20	GRO95/8021		5/18/2017	TCC	1
Toluene	96	ug/l	6.6	21.2	20	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	630	ug/l	11.2	35.6	20	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	184	ug/l	11.6	36.8	20	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	640	ug/l	22	69.8	20	GRO95/8021		5/18/2017	TCC	1
o-Xylene	540	ug/l	12.2	38.4	20	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892LL  
 Sample ID G-12-W  
 Sample Matrix Water  
 Sample Date 5/8/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	9.1 "J"	ug/l	5.4	17.4	20	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	330	ug/l	11.2	35.4	20	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 8.6	ug/l	8.6	27.2	20	GRO95/8021		5/18/2017	TCC	1
Naphthalene	135	ug/l	34	105.4	20	GRO95/8021		5/18/2017	TCC	1
Toluene	46	ug/l	6.6	21.2	20	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	360	ug/l	11.2	35.6	20	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	102	ug/l	11.6	36.8	20	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	1020	ug/l	22	69.8	20	GRO95/8021		5/18/2017	TCC	1
o-Xylene	97	ug/l	12.2	38.4	20	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892MM  
 Sample ID G-14-3  
 Sample Matrix Soil  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	0.108	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	0.056 "J"	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	0.142	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	0.041	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	0.277	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	0.085	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 532892NN  
 Sample ID G-15-3  
 Sample Matrix Soil  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/16/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/16/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/16/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		5/16/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/16/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		5/16/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/16/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/16/2017	TCC	1

Lab Code 53289200  
 Sample ID G-20-3  
 Sample Matrix Soil  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.5	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/20/2017	TCC	1
Ethylbenzene	0.135	mg/kg	0.01	0.032	1	GRO95/8021		5/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/20/2017	TCC	1
Naphthalene	2.12	mg/kg	0.022	0.07	1	GRO95/8021		5/20/2017	TCC	1
Toluene	0.115	mg/kg	0.014	0.046	1	GRO95/8021		5/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.64	mg/kg	0.01	0.032	1	GRO95/8021		5/20/2017	TCC	1
1,3,5-Trimethylbenzene	2.51	mg/kg	0.011	0.036	1	GRO95/8021		5/20/2017	TCC	1
m&p-Xylene	0.64	mg/kg	0.012	0.037	1	GRO95/8021		5/20/2017	TCC	1
o-Xylene	0.41	mg/kg	0.015	0.047	1	GRO95/8021		5/20/2017	TCC	1

Project #

Lab Code 532892PP  
 Sample ID G-21-3  
 Sample Matrix Soil  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		5/11/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		5/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		5/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		5/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		5/20/2017	TCC	1
Toluene	0.0251 "J"	mg/kg	0.014	0.046	1	GRO95/8021		5/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.055	mg/kg	0.01	0.032	1	GRO95/8021		5/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.035 "J"	mg/kg	0.011	0.036	1	GRO95/8021		5/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		5/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		5/20/2017	TCC	1

Lab Code 532892QQ  
 Sample ID G-13-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/17/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/17/2017	TCC	1

Lab Code 532892RR  
 Sample ID G-14-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.94	ug/l	0.27	0.87	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	6.9	ug/l	0.56	1.77	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/17/2017	TCC	1
Toluene	1.61	ug/l	0.33	1.06	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	5.5	ug/l	0.56	1.78	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	1.87	ug/l	0.58	1.84	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	9.4	ug/l	1.1	3.49	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	1.82 "J"	ug/l	0.61	1.92	1	GRO95/8021		5/17/2017	TCC	1

Project #

Lab Code 532892SS  
 Sample ID G-15-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5.7	ug/l	0.27	0.87	1	GRO95/8021		5/17/2017	TCC	1
Ethylbenzene	1.01 "J"	ug/l	0.56	1.77	1	GRO95/8021		5/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/17/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/17/2017	TCC	1
Toluene	0.44 "J"	ug/l	0.33	1.06	1	GRO95/8021		5/17/2017	TCC	1
1,2,4-Trimethylbenzene	0.78 "J"	ug/l	0.56	1.78	1	GRO95/8021		5/17/2017	TCC	1
1,3,5-Trimethylbenzene	0.72 "J"	ug/l	0.58	1.84	1	GRO95/8021		5/17/2017	TCC	1
m&p-Xylene	1.27 "J"	ug/l	1.1	3.49	1	GRO95/8021		5/17/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/17/2017	TCC	1

Lab Code 532892TT  
 Sample ID G-16-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/18/2017	TCC	1

Lab Code 532892UU  
 Sample ID G-17-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/18/2017	TCC	1



Project #

Lab Code 532892VV  
 Sample ID G-18-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1

Lab Code 532892WW  
 Sample ID G-19-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021	5/18/2017	5/18/2017	TCC	1

Lab Code 532892XX  
 Sample ID G-20-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	21.6	ug/l	0.27	0.87	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
Ethylbenzene	31.5	ug/l	0.56	1.77	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
Naphthalene	43	ug/l	1.7	5.27	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
Toluene	96	ug/l	0.33	1.06	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
1,2,4-Trimethylbenzene	111	ug/l	0.56	1.78	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
1,3,5-Trimethylbenzene	194	ug/l	0.58	1.84	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
m&p-Xylene	84	ug/l	1.1	3.49	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1
o-Xylene	48	ug/l	0.61	1.92	1	GRO95/8021	5/23/2017	5/23/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E32892

Lab Code 532892YY  
 Sample ID G-21-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.92	ug/l	0.27	0.87	1	GRO95/8021		5/23/2017	TCC	1
Ethylbenzene	1.38 "J"	ug/l	0.56	1.77	1	GRO95/8021		5/23/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/23/2017	TCC	1
Naphthalene	1.95 "J"	ug/l	1.7	5.27	1	GRO95/8021		5/23/2017	TCC	1
Toluene	2.94	ug/l	0.33	1.06	1	GRO95/8021		5/23/2017	TCC	1
1,2,4-Trimethylbenzene	11.1	ug/l	0.56	1.78	1	GRO95/8021		5/23/2017	TCC	1
1,3,5-Trimethylbenzene	4.9	ug/l	0.58	1.84	1	GRO95/8021		5/23/2017	TCC	1
m&p-Xylene	3.4 "J"	ug/l	1.1	3.49	1	GRO95/8021		5/23/2017	TCC	1
o-Xylene	1.48 "J"	ug/l	0.61	1.92	1	GRO95/8021		5/23/2017	TCC	1

Lab Code 532892ZZ  
 Sample ID G-22-W  
 Sample Matrix Water  
 Sample Date 5/9/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		5/19/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		5/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/19/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		5/19/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		5/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/19/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		5/19/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/19/2017	TCC	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

- 1      Laboratory QC within limits.
  - 49      Sample diluted to compensate for matrix interference.
- CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*

CHAIN OF JUSTODY RECORD

# Synergy

Chain # No 290

Page 1 of 6

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

### Sample Handling Request

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_

Project #: \_\_\_\_\_

Sampler: (signature) *[Signature]*

Project (Name / Location): Luedtke Property

Reports To: Todd Luedtke Invoice To: Todd Luedtke

Company: \_\_\_\_\_ Company: C/O METCO

Address: 426 Crowfoot Ave Address: 709 Gillette St, Ste 3

City State Zip: Fond du Lac, WI 54935 City State Zip: La Crosse, WI 54603

Phone: (920) 602-4910 Phone: (608) 781-8879

FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

### Analysis Requested

### Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/FID
5032877	Meth Blank	5/10/17					1		MEDH															
B	G-1-1		10:10		X		3	S	/None			X							X					
S	G-1-3		10:15				2												X					
S	G-2-1		10:30				3		/None			X							X					
F	G-2-3		10:40				2												X					
F	G-3-1		11:10				3		/None			X							X					
G	G-3-3		11:15				2												X					
H	G-4-1		11:40				3		/None			X							X					
I	G-4-3		11:45				2												X					
J	G-5-1		12:00				3		/None			X							X					

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO.

REC Rates

Agent Status

Sample Integrity - To be completed by receiving lab

Method of Shipment: SM

Temp of Temp. Blank: \_\_\_\_\_ °C On Ice

Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *[Signature]* Time: 9:15AM Date: 5/10/17

Received In Laboratory By: *[Signature]* Time: \_\_\_\_\_ Date: \_\_\_\_\_


## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab ID: \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Sampler: (signature) 



Project (Name / Location): Luedtke Property  
Reports To: See Page 1 Invoice To: →  
Company: \_\_\_\_\_ Company: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_  
City State Zip: \_\_\_\_\_ City State Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested										Other Analysis											
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS							PID/ FID	
								X													
		X						X													
								X													
								X													
								X													
								X													
								X													
								X													
								X													
								X													

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
0278	G-5-3	5/8/17	12:05		X		2	S	MeOH
	G-6-1		12:40				3		None
	G-6-3		12:45				2		
	G-7-1		1:00				3		None
	G-7-3		1:05				2		
	G-8-1		1:25				3		None
	G-8-2		1:35				3		None
	G-9-1		1:55				3		None
	G-9-2		2:00				2		
	G-10-1		2:15				3		None

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample integrity - To be completed by receiving lab  
Method of Shipment: SM  
Temp of Temp. Blank: \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign)  Time: 9:15 AM Date: 5/10/17  
Received By: (sign)  Time: SM Date: SM

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

### Sample Handling Request


Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

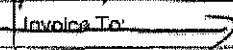
Lab I.D. # \_\_\_\_\_

Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_

Project #: \_\_\_\_\_

Sampler: (signature) 

Project (Name / Location): Lued the Property

Reports To: See Page 1 Invoice To: 

Company \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ Address \_\_\_\_\_

City State Zip \_\_\_\_\_ City State Zip \_\_\_\_\_

Phone \_\_\_\_\_ Phone \_\_\_\_\_

FAX \_\_\_\_\_ FAX \_\_\_\_\_

										Analysis Requested								Other Analysis							
Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID	
20050202	G-10-2	5/8/17	2:20		X		2	S	MEOH										X						
V	G-11-1		2:30				3		None			X						X							
LO	G-11-3		3:35				2											X							
X	G-12-1		4:15				3		None			X						X							
Y	G-12-3		4:10				2											X							
Z	Trip Blank						1		HCl									X							
AA	G-1-W		10:20		X	N	3	GW										X							
BB	G-2-W		11:00				3											X							
CC	G-3-W		11:20				3											X							
DD	G-4-W		11:50				3											X							


Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab


Method of Shipment: SEA

Temp. or Temp. Blank:  °C  °F  Ice  No

Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign)  Time: 9:15AM Date: 5/10/17

Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_

Received in Laboratory By:  Time: SEA Date: 5/10/17

# Synergy

Chain # No 290  
Page 4 of 6

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
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### Sample Handling Request

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab # \_\_\_\_\_  
Account No: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: \_\_\_\_\_  
Sampler: (signature)

Project (Name / Location): Luedtke Property  
Reports To: See Page 1 Invoice To:   
Company: \_\_\_\_\_ Company: \_\_\_\_\_  
Address: \_\_\_\_\_ Address: \_\_\_\_\_  
City State Zip: \_\_\_\_\_ City State Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

### Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
								X						
								X						
								X						
								X						
								X						
								X						
								X						
								X						
								X						
								X						

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5320	G-5-W	5/9/17	12:10		X	N	3	GW	HCl
	G-6-W		12:35						
	G-7-W		1:15						
	G-8-W		1:45						
	G-9-W		2:05						
	G-10-W		2:25						
	G-11-W		3:45						
	G-12-W		4:30						
	G-14-3	5/9/17	8:30				2	S	MEOH
	G-15-3	5/9/17	8:50				2	S	MEOH

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab  
Method of Shipment: Sea  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) Time Date Received By: (sign) \_\_\_\_\_ Time Date  
9:15AM 5/10/17  
Received in Laboratory By:

# Synergy

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
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**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) *[Signature]*

Project (Name / Location): Lead the Property  
 Reports To: Sae Page 1 Invoice To: [Arrow]  
 Company \_\_\_\_\_ Company \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_  
 City State Zip \_\_\_\_\_ City State Zip \_\_\_\_\_  
 Phone \_\_\_\_\_ Phone \_\_\_\_\_  
 FAX \_\_\_\_\_ FAX \_\_\_\_\_

		Analysis Requested										Other Analysis												
Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DPO (Mod DRO Sep 96)	GRO (Mod GRO Sep 96)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
<del>5328</del>	G-20-3	5/9/17	11:00		X		2	S	MEOH									X						
P	G-21-3		11:15				2	S	MEOH									X						
S/O	G-13-W		8:15			N	3	GW	HCl									X						
RL	G-14-W		8:35															X						
SS	G-15-W		8:55															X						
PT	G-16-W		9:15															X						
WQ	G-17-W		9:45															X						
YV	G-18-W		10:05															X						
WQ	G-19-W		10:30															X						
XX	G-20-W		11:05															X						

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample integrity - To be completed by receiving lab.  
 Method of Shipment: SM  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes \_\_\_\_\_ No  
 Relinquished By: (sign) *[Signature]* Time: 9:15 AM Date: 5/10/17  
 Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received in Laboratory By: *[Signature]* Time: 9:30 Date: 5/10/17



**Synergy Environmental Lab, Inc.**

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**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab ID #:   
Account No.:   
Quote No.:   
Project #:   
Sampler: (signature) *[Signature]*

Project (Name / Location): *Used the Property*  
Reports To: *See Page 1* Invoice To: *→*  
Company:   
Address:   
City State Zip:   
Phone:   
FAX:   
Company:   
Address:   
City State Zip:   
Phone:   
FAX:

**Analysis Requested** **Other Analysis**

DRD (Mod DRD Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<i>2287514</i>	<i>G-21-W</i>	<i>5/9/17</i>	<i>11:20</i>		<i>X</i>	<i>N</i>	<i>3</i>	<i>GW</i>	<i>HCl</i>
<i>82</i>	<i>G-22-W</i>		<i>11:20</i>				<i>3</i>		
<i>ADA</i>	<i>G-23-W</i>		<i>12:40</i>				<i>2</i>		
<i>BBB</i>	<i>G-24-W</i>		<i>1:00</i>				<i>2</i>		
<i>CCC</i>	<i>G-25-W</i>		<i>1:10</i>				<i>2</i>		

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample integrity - To be completed by receiving lab  
Method of shipment: *Sm*  
Temp. of Temp. Blank: \_\_\_\_\_ C On Ice: *X*  
Cooler seal intact upon receipt: *X* Yes \_\_\_\_\_ No

Relinquished By: (sign) *[Signature]* Time: *9:15 AM* Date: *5/10/17*  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: *[Signature]* Time: *8:00* Date: *5/11/17*



# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TODD LUEDTKE  
TODD LUEDTKE  
426 CROWFOOT AVE.,  
FOND DU LAC, WI 54935

Report Date 30-Nov-17

Project Name LUEDTKE PROPERTY  
Project #

Invoice # E33914

Lab Code 5033914A  
Sample ID METH BLANK  
Sample Matrix Soil  
Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E33914

Lab Code 5033914B  
 Sample ID MW-1-3  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.9	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.052 "J"	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	0.059	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	0.066	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	0.18	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	0.062	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Lab Code 5033914C  
 Sample ID MW-2-1  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.8	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Project #

Lab Code 5033914D  
 Sample ID MW-2-3  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Lab Code 5033914E  
 Sample ID MW-2-4  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.7	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	0.061	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	0.040 "J"	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	0.102	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	0.032 "J"	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	0.152	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	0.068	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E33914

Lab Code 5033914F  
 Sample ID MW-3-3  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.6	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	0.051	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	0.0303 "J"	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	0.052	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	0.0276 "J"	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	0.094	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Lab Code 5033914G  
 Sample ID MW-3-4  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/24/2017	TCC	1
Ethylbenzene	0.038	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/24/2017	TCC	1
Naphthalene	0.0277 "J"	mg/kg	0.022	0.07	1	GRO95/8021		11/24/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/24/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/24/2017	TCC	1
m&p-Xylene	0.064	mg/kg	0.012	0.037	1	GRO95/8021		11/24/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/24/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E33914

Lab Code 5033914H  
 Sample ID MW-8-1  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/27/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/27/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/27/2017	TCC	1
Naphthalene	0.0282 "J"	mg/kg	0.022	0.07	1	GRO95/8021		11/27/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/27/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/27/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		11/27/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		11/27/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/27/2017	TCC	1

Lab Code 5033914I  
 Sample ID MW-8-2  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.4	%			1	5021		11/16/2017	NJC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1640	mg/kg	53.5	170.5	50	GRO95/8021		11/30/2017	TCC	1
Benzene	3.3	mg/kg	0.095	0.3	5	GRO95/8021		11/27/2017	TCC	1
Ethylbenzene	35	mg/kg	0.05	0.16	5	GRO95/8021		11/27/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		11/27/2017	TCC	1
Naphthalene	19.6	mg/kg	0.11	0.35	5	GRO95/8021		11/27/2017	TCC	1
Toluene	4.6	mg/kg	0.07	0.23	5	GRO95/8021		11/27/2017	TCC	1
1,2,4-Trimethylbenzene	98	mg/kg	0.05	0.16	5	GRO95/8021		11/27/2017	TCC	1
1,3,5-Trimethylbenzene	36	mg/kg	0.055	0.18	5	GRO95/8021		11/27/2017	TCC	1
m&p-Xylene	109	mg/kg	0.06	0.185	5	GRO95/8021		11/27/2017	TCC	1
o-Xylene	26.8	mg/kg	0.075	0.235	5	GRO95/8021		11/27/2017	TCC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E33914

Lab Code 5033914J  
 Sample ID MW-8-4  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.8	%			1	5021		11/16/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		11/27/2017	TCC	1
Ethylbenzene	0.129	mg/kg	0.01	0.032	1	GRO95/8021		11/27/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		11/27/2017	TCC	1
Naphthalene	0.057 "J"	mg/kg	0.022	0.07	1	GRO95/8021		11/27/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		11/27/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		11/27/2017	TCC	1
1,3,5-Trimethylbenzene	0.050	mg/kg	0.011	0.036	1	GRO95/8021		11/27/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		11/27/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		11/27/2017	TCC	1

Lab Code 5033914K  
 Sample ID DRUM  
 Sample Matrix Soil  
 Sample Date 11/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.5	%			1	5021		11/16/2017	NJC	1
Inorganic										
Metals										
TCLP Lead	< 0.1	mg/l		0.1	1	6010B		11/24/2017	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	172	mg/kg	2.14	6.82	2	GRO95/8021		11/27/2017	TCC	1
Benzene	< 0.05	mg/kg	0.038	0.12	2	GRO95/8021		11/27/2017	TCC	1
Ethylbenzene	0.43	mg/kg	0.02	0.064	2	GRO95/8021		11/27/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.0158	0.05	2	GRO95/8021		11/27/2017	TCC	1
Naphthalene	1.53	mg/kg	0.044	0.14	2	GRO95/8021		11/27/2017	TCC	1
Toluene	0.095	mg/kg	0.028	0.092	2	GRO95/8021		11/27/2017	TCC	1
1,2,4-Trimethylbenzene	7.0	mg/kg	0.02	0.064	2	GRO95/8021		11/27/2017	TCC	1
1,3,5-Trimethylbenzene	4.0	mg/kg	0.022	0.072	2	GRO95/8021		11/27/2017	TCC	1
m&p-Xylene	1.94	mg/kg	0.024	0.074	2	GRO95/8021		11/27/2017	TCC	1
o-Xylene	0.57	mg/kg	0.03	0.094	2	GRO95/8021		11/27/2017	TCC	1

Project Name LUEDTKE PROPERTY  
Project #

Invoice # E33914

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

*Code*      *Comment*

1            Laboratory QC within limits.

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Richer*

CHAIN OF CUSTODY RECORD

# Synergy

Chain # No 305

Page 1 of 2

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) *[Signature]*

Project (Name / Location): *Luedtke Property*  
 Reports To: *Todd Luedtke* Invoice To: *Todd Luedtke*  
 Company: \_\_\_\_\_ Company: *COMETCO*  
 Address: *426 Crowfoot Ave* Address: *709 Gillette St, Ste 3*  
 City State Zip: *Fond du Lac WI 54935* City State Zip: *La Crosse WI 54603*  
 Phone: *(920) 602-4910* Phone: *(608) 781-8879*  
 FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested										Other Analysis				
DRO (Met DRO Sep 95)	GRO (Met GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PMOC (EPA 8021)	PMOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					
									X					

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation
S033910	Math Blank	11/13					1		MEOW
	MW-1-3		12:45		X		2	S	
	MW-2-1		1:45		X		2	S	
	MW-2-3		1:50		X		2	S	
	MW-2-4		1:55		X		2	S	
	MW-3-3		2:55		X		2	S	
	MW-3-4		3:00		X		2	S	
	MW-8-1	11/14	12:20		X		2	S	
	MW-8-2		12:35		X		2	S	
	MW-8-4		12:45		X		2	S	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*Lab to send copy of report to METCO  
 Use Rates  
 Agent Status*

Sample Integrity: To be completed by receiving lab.  
 Method of Shipment: *Car*  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes \_\_\_\_\_ No

Relinquished By: (sign) *[Signature]* Time: *8:15 AM* Date: *11/15/17*  
 Received By: (sign) *[Signature]* Time: *8:00* Date: *11/16/17*



## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
 920-830-2455 • FAX 920-733-0631

### Sample Handling Request

Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) [Signature]

Project (Name / Location): Luedtke Property  
 Reports To: See Page 1 Invoice To: [Arrow]  
 Company: \_\_\_\_\_ Company: \_\_\_\_\_  
 Address: \_\_\_\_\_ Address: \_\_\_\_\_  
 City State Zip: \_\_\_\_\_ City State Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Phone: \_\_\_\_\_  
 FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested										Other Analysis				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 842.2)	VOC (EPA 8260)	8-PCRA METALS	PID/FID
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>					<u>X</u>	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>S0535</u>	<u>Drum Composite</u>	<u>11/14/05</u>	<u>1:05</u>	<input checked="" type="checkbox"/>			<u>4</u>	<u>S</u>	<u>MEQ/Water</u>

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab  
 Method of Shipment: Ice  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
 Cooler sealed upon receipt:  Yes \_\_\_\_\_ No

Relinquished By: (sign) [Signature] Time: 8:15 AM Date: 11/15/17  
 Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received in Laboratory By: [Signature] Time: 8:00 Date: 11/16/17

# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TODD LUEDTKE  
 TODD LUEDTKE  
 426 CROWFOOT AVE.,  
 FOND DU LAC, WI 54935

Report Date 09-Feb-18

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E34185

Lab Code 5034185A  
 Sample ID MW-6  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.05	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	27.2	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 5034185A  
 Sample ID MW-6  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		2/5/2018	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/5/2018	CJR	1

Wet Chemistry

General

Nitrite Plus Nitrate	1.18	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	18.5	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

## Project #

Lab Code 5034185B

Sample ID MW-4

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.18	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	36.8	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 5034185B

Sample ID MW-4

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %				1 8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				1 8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	106	REC %				1 8260B		2/5/2018	CJR	1
SUR - Toluene-d8	96	REC %				1 8260B		2/5/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	2.16	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	33.8	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

## Project #

Lab Code 5034185C

Sample ID MW-5

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	< 0.03	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	9.0	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 5034185C  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2018	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		2/5/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	2.13	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	19.7	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

Lab Code 5034185D  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.98	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9		3	7421		2/2/2018	CWT	1
Manganese, Dissolved	839	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		2/5/2018	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		2/5/2018	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		2/5/2018	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		2/5/2018	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		2/5/2018	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		2/5/2018	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 3.6	ug/l	3.6	11.4	10	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 3.7	ug/l	3.7	11.6	10	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 3.4	ug/l	3.4	10.7	10	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		2/5/2018	CJR	1
Ethylbenzene	69	ug/l	2.6	8.3	10	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		2/5/2018	CJR	1
Isopropylbenzene	15.5 "J"	ug/l	7.8	24.7	10	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 2.4	ug/l	2.4	7.6	10	8260B		2/5/2018	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/5/2018	CJR	1
Naphthalene	26.2 "J"	ug/l	21	66.5	10	8260B		2/5/2018	CJR	1
n-Propylbenzene	14.5 "J"	ug/l	6.1	19.5	10	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		2/5/2018	CJR	1
Toluene	3.2 "J"	ug/l	1.9	6	10	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		2/5/2018	CJR	1



Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E34185

Lab Code 5034185D  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 3	ug/l	3	9.4	10	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	51	ug/l	8	25.5	10	8260B		2/5/2018	CJR	1
1,3,5-Trimethylbenzene	13 "J"	ug/l	6.3	20	10	8260B		2/5/2018	CJR	1
Vinyl Chloride	< 2	ug/l	2	6.5	10	8260B		2/5/2018	CJR	1
m&p-Xylene	86	ug/l	4.3	13.8	10	8260B		2/5/2018	CJR	1
o-Xylene	8.0 "J"	ug/l	2.9	9.3	10	8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	104	REC %				10 8260B		2/5/2018	CJR	1
SUR - Toluene-d8	96	REC %				10 8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				10 8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %				10 8260B		2/5/2018	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Nitrite Plus Nitrate	< 0.36	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	38.6	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E34185

Lab Code 5034185E  
 Sample ID PZ-1  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	23.4	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	1930	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	7.6	ug/l	2.2	7.1	10	8260B		2/6/2018	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		2/6/2018	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		2/6/2018	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		2/6/2018	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		2/6/2018	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		2/6/2018	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		2/6/2018	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		2/6/2018	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		2/6/2018	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		2/6/2018	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		2/6/2018	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		2/6/2018	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		2/6/2018	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		2/6/2018	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		2/6/2018	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		2/6/2018	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		2/6/2018	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		2/6/2018	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		2/6/2018	CJR	1
1,1-Dichloroethane	< 3.6	ug/l	3.6	11.4	10	8260B		2/6/2018	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		2/6/2018	CJR	1
cis-1,2-Dichloroethene	< 3.7	ug/l	3.7	11.6	10	8260B		2/6/2018	CJR	1
trans-1,2-Dichloroethene	< 3.4	ug/l	3.4	10.7	10	8260B		2/6/2018	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		2/6/2018	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		2/6/2018	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		2/6/2018	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		2/6/2018	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		2/6/2018	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		2/6/2018	CJR	1
Ethylbenzene	311	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		2/6/2018	CJR	1
Isopropylbenzene	28.9	ug/l	7.8	24.7	10	8260B		2/6/2018	CJR	1
p-Isopropyltoluene	3.8 "J"	ug/l	2.4	7.6	10	8260B		2/6/2018	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/6/2018	CJR	1
Naphthalene	65 "J"	ug/l	21	66.5	10	8260B		2/6/2018	CJR	1
n-Propylbenzene	33	ug/l	6.1	19.5	10	8260B		2/6/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		2/6/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		2/6/2018	CJR	1
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		2/6/2018	CJR	1
Toluene	42	ug/l	1.9	6	10	8260B		2/6/2018	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		2/6/2018	CJR	1

Project #

Lab Code 5034185E

Sample ID PZ-1

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		2/6/2018	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		2/6/2018	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		2/6/2018	CJR	1
Trichloroethene (TCE)	< 3	ug/l	3	9.4	10	8260B		2/6/2018	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	186	ug/l	8	25.5	10	8260B		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	62	ug/l	6.3	20	10	8260B		2/6/2018	CJR	1
Vinyl Chloride	< 2	ug/l	2	6.5	10	8260B		2/6/2018	CJR	1
m&p-Xylene	710	ug/l	4.3	13.8	10	8260B		2/6/2018	CJR	1
o-Xylene	106	ug/l	2.9	9.3	10	8260B		2/6/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			10	8260B		2/6/2018	CJR	1
SUR - Dibromofluoromethane	102	REC %			10	8260B		2/6/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			10	8260B		2/6/2018	CJR	1
SUR - Toluene-d8	96	REC %			10	8260B		2/6/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.36	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	4.53	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

## Project #

Lab Code 5034185F

Sample ID MW-1

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	5.68	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	2.4	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	1040	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
Organic										
VOC's										
Benzene	9.3	ug/l	2.2	7.1	10	8260B		2/6/2018	CJR	1
Bromobenzene	< 4.4	ug/l	4.4	13.8	10	8260B		2/6/2018	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		2/6/2018	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		2/6/2018	CJR	1
tert-Butylbenzene	< 2.5	ug/l	2.5	8	10	8260B		2/6/2018	CJR	1
sec-Butylbenzene	< 7.9	ug/l	7.9	25.3	10	8260B		2/6/2018	CJR	1
n-Butylbenzene	< 7.1	ug/l	7.1	22.5	10	8260B		2/6/2018	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		2/6/2018	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		2/6/2018	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		2/6/2018	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		2/6/2018	CJR	1
2-Chlorotoluene	< 3.1	ug/l	3.1	9.8	10	8260B		2/6/2018	CJR	1
4-Chlorotoluene	< 2.6	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		2/6/2018	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		2/6/2018	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		2/6/2018	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		2/6/2018	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		2/6/2018	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		2/6/2018	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		2/6/2018	CJR	1
1,1-Dichloroethane	< 3.6	ug/l	3.6	11.4	10	8260B		2/6/2018	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		2/6/2018	CJR	1
cis-1,2-Dichloroethene	< 3.7	ug/l	3.7	11.6	10	8260B		2/6/2018	CJR	1
trans-1,2-Dichloroethene	< 3.4	ug/l	3.4	10.7	10	8260B		2/6/2018	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		2/6/2018	CJR	1
1,3-Dichloropropane	< 3	ug/l	3	9.4	10	8260B		2/6/2018	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		2/6/2018	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		2/6/2018	CJR	1
Di-isopropyl ether	< 2.1	ug/l	2.1	6.6	10	8260B		2/6/2018	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		2/6/2018	CJR	1
Ethylbenzene	108	ug/l	2.6	8.3	10	8260B		2/6/2018	CJR	1
Hexachlorobutadiene	< 13.4	ug/l	13.4	42.8	10	8260B		2/6/2018	CJR	1
Isopropylbenzene	25.1	ug/l	7.8	24.7	10	8260B		2/6/2018	CJR	1
p-Isopropyltoluene	3.5 "J"	ug/l	2.4	7.6	10	8260B		2/6/2018	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		2/6/2018	CJR	1
Naphthalene	99	ug/l	21	66.5	10	8260B		2/6/2018	CJR	1
n-Propylbenzene	41	ug/l	6.1	19.5	10	8260B		2/6/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 3	ug/l	3	9.7	10	8260B		2/6/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 3.5	ug/l	3.5	11.3	10	8260B		2/6/2018	CJR	1
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		2/6/2018	CJR	1
Toluene	3.5 "J"	ug/l	1.9	6	10	8260B		2/6/2018	CJR	1
1,2,4-Trichlorobenzene	< 11.5	ug/l	11.5	36.7	10	8260B		2/6/2018	CJR	1

## Project #

Lab Code 5034185F

Sample ID MW-1

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 17.1	ug/l	17.1	54.3	10	8260B		2/6/2018	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		2/6/2018	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		2/6/2018	CJR	1
Trichloroethene (TCE)	< 3	ug/l	3	9.4	10	8260B		2/6/2018	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		2/6/2018	CJR	1
1,2,4-Trimethylbenzene	330	ug/l	8	25.5	10	8260B		2/6/2018	CJR	1
1,3,5-Trimethylbenzene	99	ug/l	6.3	20	10	8260B		2/6/2018	CJR	1
Vinyl Chloride	< 2	ug/l	2	6.5	10	8260B		2/6/2018	CJR	1
m&p-Xylene	350	ug/l	4.3	13.8	10	8260B		2/6/2018	CJR	1
o-Xylene	64	ug/l	2.9	9.3	10	8260B		2/6/2018	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %				10 8260B		2/6/2018	CJR	1
SUR - Dibromofluoromethane	108	REC %				10 8260B		2/6/2018	CJR	1
SUR - Toluene-d8	96	REC %				10 8260B		2/6/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %				10 8260B		2/6/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.36	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	21.4	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

Project #

Lab Code 5034185G  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Iron, Dissolved	10.1	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	2270	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	19.2	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	16	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	2.13 "J"	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	6.3 "J"	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	2.83	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	1.02	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 5034185G

Sample ID MW-2

Sample Matrix Water

Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	5.2	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1
1,3,5-Trimethylbenzene	3.8	ug/l	0.63	2	1	8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2018	CJR	1
m&p-Xylene	23.2	ug/l	0.43	1.38	1	8260B		2/5/2018	CJR	1
o-Xylene	1.97	ug/l	0.29	0.93	1	8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		2/5/2018	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		2/5/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.36	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	9.90	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

Lab Code 5034185H  
 Sample ID MW-8  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Iron, Dissolved	29.0	mg/l	0.03	0.1	1	200.7		2/7/2018	CWT	1
Lead, Dissolved	21.2	ug/L	0.9	3	1	7421		2/2/2018	CWT	1
Manganese, Dissolved	1520	ug/L	4.2	13.8	1	200.7		2/7/2018	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	< 11	ug/l	11	35.5	50	8260B		2/6/2018	CJR	1
Bromobenzene	< 22	ug/l	22	69	50	8260B		2/6/2018	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		2/6/2018	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		2/6/2018	CJR	1
tert-Butylbenzene	< 12.5	ug/l	12.5	40	50	8260B		2/6/2018	CJR	1
sec-Butylbenzene	< 39.5	ug/l	39.5	126.5	50	8260B		2/6/2018	CJR	1
n-Butylbenzene	< 35.5	ug/l	35.5	112.5	50	8260B		2/6/2018	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		2/6/2018	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		2/6/2018	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		2/6/2018	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		2/6/2018	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		2/6/2018	CJR	1
2-Chlorotoluene	< 15.5	ug/l	15.5	49	50	8260B		2/6/2018	CJR	1
4-Chlorotoluene	< 13	ug/l	13	41.5	50	8260B		2/6/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471.5	50	8260B		2/6/2018	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		2/6/2018	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		2/6/2018	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		2/6/2018	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		2/6/2018	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		2/6/2018	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		2/6/2018	CJR	1
1,1-Dichloroethane	< 18	ug/l	18	57	50	8260B		2/6/2018	CJR	1
1,1-Dichloroethene	< 21	ug/l	21	67	50	8260B		2/6/2018	CJR	1
cis-1,2-Dichloroethene	< 18.5	ug/l	18.5	58	50	8260B		2/6/2018	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		2/6/2018	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		2/6/2018	CJR	1
1,3-Dichloropropane	< 15	ug/l	15	47	50	8260B		2/6/2018	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		2/6/2018	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		2/6/2018	CJR	1
Di-isopropyl ether	< 10.5	ug/l	10.5	33	50	8260B		2/6/2018	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		2/6/2018	CJR	1
Ethylbenzene	1600	ug/l	13	41.5	50	8260B		2/6/2018	CJR	1
Hexachlorobutadiene	< 67	ug/l	67	214	50	8260B		2/6/2018	CJR	1
Isopropylbenzene	108 "J"	ug/l	39	123.5	50	8260B		2/6/2018	CJR	1
p-Isopropyltoluene	14.5 "J"	ug/l	12	38	50	8260B		2/6/2018	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		2/6/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		2/6/2018	CJR	1
Naphthalene	790	ug/l	105	332.5	50	8260B		2/6/2018	CJR	1
n-Propylbenzene	197	ug/l	30.5	97.5	50	8260B		2/6/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 15	ug/l	15	48.5	50	8260B		2/6/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 17.5	ug/l	17.5	56.5	50	8260B		2/6/2018	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		2/6/2018	CJR	1
Toluene	29 "J"	ug/l	9.5	30	50	8260B		2/6/2018	CJR	1
1,2,4-Trichlorobenzene	< 57.5	ug/l	57.5	183.5	50	8260B		2/6/2018	CJR	1



Project #

Lab Code 5034185H  
 Sample ID MW-8  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
I,2,3-Trichlorobenzene	< 85.5	ug/l	85.5	271.5	50	8260B		2/6/2018	CJR	1
I,1,1-Trichloroethane	< 16.5	ug/l	16.5	52.5	50	8260B		2/6/2018	CJR	1
I,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		2/6/2018	CJR	1
Trichloroethene (TCE)	< 15	ug/l	15	47	50	8260B		2/6/2018	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		2/6/2018	CJR	1
I,2,4-Trimethylbenzene	1580	ug/l	40	127.5	50	8260B		2/6/2018	CJR	1
I,3,5-Trimethylbenzene	360	ug/l	31.5	100	50	8260B		2/6/2018	CJR	1
Vinyl Chloride	< 10	ug/l	10	32.5	50	8260B		2/6/2018	CJR	1
m&p-Xylene	4200	ug/l	21.5	69	50	8260B		2/6/2018	CJR	1
o-Xylene	1300	ug/l	14.5	46.5	50	8260B		2/6/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %				50 8260B		2/6/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %				50 8260B		2/6/2018	CJR	1
SUR - Dibromofluoromethane	103	REC %				50 8260B		2/6/2018	CJR	1
SUR - Toluene-d8	94	REC %				50 8260B		2/6/2018	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Nitrite Plus Nitrate	< 0.36	mg/l	0.36	1.15	1	353.2		2/6/2018	NJC	1
Sulfate, Unfiltered	31.4	mg/l	1.35	4.3	1	ASTM D516-		2/6/2018	NJC	1

## Project #

Lab Code 50341851  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		2/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		2/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		2/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		2/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		2/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		2/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		2/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		2/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		2/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		2/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		2/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		2/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		2/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		2/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		2/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		2/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		2/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		2/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		2/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		2/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		2/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		2/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		2/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		2/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		2/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		2/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		2/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		2/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		2/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		2/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		2/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		2/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		2/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		2/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		2/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		2/5/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		2/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		2/5/2018	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		2/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		2/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		2/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		2/5/2018	CJR	1

Project #

Lab Code 50341851  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 1/29/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2	1 8260B		2/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		2/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		2/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		2/5/2018	CJR	1
SUR - Toluene-d8	96	REC %				1 8260B		2/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	111	REC %				1 8260B		2/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %				1 8260B		2/5/2018	CJR	1
SUR - Dibromofluoromethane	108	REC %				1 8260B		2/5/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code Comment**

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*

CHAIN OF CUSTODY RECORD

# Synergy

Chain # No 297

Page 1 of 1

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab ID: \_\_\_\_\_  
 Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: \_\_\_\_\_  
 Sampler: (signature) *Bonnie Vigor*

Project (Name / Location): *Luedtke Property / Tomahawk*  
 Reports To: *Todd Luedtke* Invoice To: *Todd Luedtke*  
 Company: \_\_\_\_\_ Company: *c/o METCO*  
 Address: *426 Crowfoot Avenue* Address: *709 Gillette Street, Suite 3*  
 City State Zip: *Fond du Lac, WI 54935* City State Zip: *La Crosse, WI 54603*  
 Phone: *(920)-602-4910* Phone: \_\_\_\_\_  
 FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested										Other Analysis											
DRO (Mod DFO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Disso Lued)	NITRATENITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCCA METALS	_____	_____	_____	_____	_____	_____	_____	
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
		X	X						X												
											X										
											X										

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation
S05 1185 A	MW-6	1/29/10	1035			Y	6	GW	HI, H2SO4, HNO3, NaOH
	MW-4		1105						
	MW-5		1150						
	MW-3		1215						
	P2-1		1255						
	MW-1		130						
	MW-2		200						
	MW-8		225						
	TB						1		HCl

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)  
*Lab to send copy of report to METCO/Jason P. (Invoice to METCO)*  
 \* U+ C rates apply  
 \* Agent Status

Sample Integrity - To be completed by receiving lab  
 Method of Shipment: \_\_\_\_\_  
 Temp. or Temp. Blank: \_\_\_\_\_ °C or \_\_\_\_\_ °F  
 Cooled and intact upon receipt:  Yes  No

Relinquished By: (sign) *Bonnie Vigor* Time: *8:30 AM* Date: *1/31/10*  
 Received By: (sign) \_\_\_\_\_ Time: *8:00* Date: *2/1/10*

Received in Laboratory By: *[Signature]* Time: \_\_\_\_\_ Date: \_\_\_\_\_

# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TODD LUEDTKE  
 TODD LUEDTKE  
 426 CROWFOOT AVE.,  
 FOND DU LAC, WI 54935

Report Date 18-May-18

Project Name LUEDTKE PROPERTY  
 Project #

Invoice # E34569

Lab Code 5034569A  
 Sample ID MW-6  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9	0.71	3	1 7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1

Project #

Lab Code 5034569B  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9		3 1	7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1

Lab Code 5034569C  
 Sample ID MW-5  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9		3 1	7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1

## Project #

Lab Code 5034569D

Sample ID MW-7

Sample Matrix Water

Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9		3 1	7421		5/4/2018	CWT	1
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/5/2018	CJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/5/2018	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/5/2018	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/5/2018	CJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/5/2018	CJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/5/2018	CJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/5/2018	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/5/2018	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/5/2018	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/5/2018	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/5/2018	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/5/2018	CJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/5/2018	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/5/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/5/2018	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/5/2018	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/5/2018	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/5/2018	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/5/2018	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/5/2018	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/5/2018	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/5/2018	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/5/2018	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		5/5/2018	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/5/2018	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/5/2018	CJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/5/2018	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/5/2018	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/5/2018	CJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/5/2018	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/5/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/5/2018	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/5/2018	CJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/5/2018	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/5/2018	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/5/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/5/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/5/2018	CJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/5/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/5/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/5/2018	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/5/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/5/2018	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/5/2018	CJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/5/2018	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/5/2018	CJR	1

Project #

Lab Code 5034569D  
 Sample ID MW-7  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/5/2018	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/5/2018	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/5/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/5/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/5/2018	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/5/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/5/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/5/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %				8260B		5/5/2018	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %				8260B		5/5/2018	CJR	1
SUR - Dibromofluoromethane	101	REC %				8260B		5/5/2018	CJR	1
SUR - Toluene-d8	104	REC %				8260B		5/5/2018	CJR	1

Lab Code 5034569E  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	1.8	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	3.03 "j"	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	0.80 "j"	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	0.31 "j"	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1



Project #

Lab Code 5034569F  
 Sample ID PZ-1  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	1.5 "J"	ug/L	0.9		3 1	7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.2	ug/l	2.2	7.1	10	8260B		5/4/2018	CJR	1
Ethylbenzene	430	ug/l	2.6	8.3	10	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		5/4/2018	CJR	1
Naphthalene	123	ug/l	21	66.5	10	8260B		5/4/2018	CJR	1
Toluene	38	ug/l	1.9	6	10	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	311	ug/l	8	25.5	10	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	106	ug/l	6.3	20	10	8260B		5/4/2018	CJR	1
m&p-Xylene	720	ug/l	4.3	13.8	10	8260B		5/4/2018	CJR	1
o-Xylene	84	ug/l	2.9	9.3	10	8260B		5/4/2018	CJR	1

Lab Code 5034569G  
 Sample ID MW-1  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	7.7	ug/L	0.9		3 1	7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	5.5 "J"	ug/l	2.2	7.1	10	8260B		5/4/2018	CJR	1
Ethylbenzene	112	ug/l	2.6	8.3	10	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		5/4/2018	CJR	1
Naphthalene	79	ug/l	21	66.5	10	8260B		5/4/2018	CJR	1
Toluene	3.9 "J"	ug/l	1.9	6	10	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	272	ug/l	8	25.5	10	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	85	ug/l	6.3	20	10	8260B		5/4/2018	CJR	1
m&p-Xylene	286	ug/l	4.3	13.8	10	8260B		5/4/2018	CJR	1
o-Xylene	55	ug/l	2.9	9.3	10	8260B		5/4/2018	CJR	1

Project #

Lab Code 5034569H  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9		3	1 7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	22.2	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	7.4	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	4.8 "J"	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	0.93	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	3.6	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	1.2 "J"	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	30.1	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	3.3	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1

Lab Code 5034569I  
 Sample ID MW-8  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	20.9	ug/L	0.9		3	1 7421		5/4/2018	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 11	ug/l	11	35.5	50	8260B		5/4/2018	CJR	1
Ethylbenzene	1560	ug/l	13	41.5	50	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		5/4/2018	CJR	1
Naphthalene	490	ug/l	105	332.5	50	8260B		5/4/2018	CJR	1
Toluene	20.5 "J"	ug/l	9.5	30	50	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	1520	ug/l	40	127.5	50	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	340	ug/l	31.5	100	50	8260B		5/4/2018	CJR	1
m&p-Xylene	2790	ug/l	21.5	69	50	8260B		5/4/2018	CJR	1
o-Xylene	580	ug/l	14.5	46.5	50	8260B		5/4/2018	CJR	1

Project #

Lab Code 5034569J  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 4/30/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/4/2018	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/4/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/4/2018	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/4/2018	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/4/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/4/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63	2	1	8260B		5/4/2018	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/4/2018	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/4/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

*Code Comment*

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*



Site Investigation Report - METCO

Luedtke Property

**APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION**

Facility Name			Facility ID Number		License, Permit or Monitoring No.		Date		Completed By (Name and Firm)												
Luedtke Property			735041230				6/13/2018		Jon Jensen/METCO												
WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir.		Date Established	Well Casing		Elevations		Reference		Depths			Screen Length	Well Type	Well Status	Enf. Stds.	Gradient	Distance to Waste
				N	S		Diam.	Type	Top of Well Casing	Ground Surface	MSL (✓)	Site Datum (✓)	Screen Top	Initial Groundwater	Well Depth						
VR691	PZ-1		228409.97	X		11/14/2017	2	P	1447.59	1448.13	X		25	8.22	30	5	12/pz	A	X	D	6
			381908.67	X																	
VR692	MW-1		228410.2	X		11/14/2017	2	P	1447.71	1448.15	X		5	6.41	15	10	11/mw	A	X	D	6
			381913.66	X																	
VR693	MW-2		228395.1	X		11/14/2017	2	P	1448.05	1448.43	X		5	7.52	15	10	11/mw	A	X		Source Well
			381904.85	X																	
VR694	MW-3		228382.05	X		11/14/2017	2	P	1448.19	1448.8	X		5	6.88	15	10	11/mw	A		S	17
			381863.4	X																	
VR695	MW-4		228498.89	X		11/14/2017	2	P	1448.13	1448.52	X		5	6.98	15	10	11/mw	A		D	95
			381892.59	X																	
VR696	MW-5		228502.29	X		11/14/2017	2	P	1447.78	1448.23	X		5	6.49	15	10	11/mw	A		S	121
			381999.22	X																	
VR697	MW-6		228395.6	X		11/14/2017	2	P	1448.31	1448.66	X		5	6.95	15	10	11/mw	A		U	108
			382068.16	X																	
VR698	MW-7		228286	X		11/14/2017	2	P	1449.08	1449.44	X		5	7.71	15	10	11/mw	A		U	67
			381978	X																	
VR699	MW-8		228359.18	X		11/14/2017	2	P	1448.4	1448.71	X		5	7.05	15	10	11/mw	A	X		Source Well
			381957.02	X																	

Location Coordinates Are:  
 State Plane Coordinate System  
 Local Grid System  
 Northern  
 Central  
 Southern

Grid Origin Location: (Check if estimated: )  
 Lat. 45 ° 28 ' 15 " Long. 89 ° 43 ' 47 " or  
 St. Plane \_\_\_\_\_ ft. N. \_\_\_\_\_ ft. E. S/C/N Zone \_\_\_\_\_

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Completion of this form is mandatory under s. NR 507.14 and NR 110.25 Wis. Adm. Code. Failure to file this form may result in forfeiture of not less than \$10 nor more than \$5,000 for each day of violation. Personally identifiable information provided is intended to be used by the Department for the purposes related to the waste management program.

Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W.	Well Name <b>PZ-1</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____	Wis. Unique Well No. <b>VR 691</b> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <b>11/14/2017</b> m m d d y y v v y
Type of Well Well Code <b>12, PZ</b>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Darrin Prentice</b> <b>Geiss Soil + Samples LLC</b>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
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"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. <b>#20 Red Flint</b>
E. Bentonite seal, top _____ ft. MSL or _____ ft.	b. Volume added _____ ft <sup>3</sup>
F. Fine sand, top _____ ft. MSL or <b>23</b> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <b>#40 Red Flint</b>
G. Filter pack, top _____ ft. MSL or <b>23</b> ft.	b. Volume added _____ ft <sup>3</sup>
H. Screen joint, top _____ ft. MSL or <b>25</b> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or <b>30</b> ft.	10. Screen material: <b>PVC</b>
J. Filter pack, bottom _____ ft. MSL or <b>31</b> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <b>31</b> ft.	b. Manufacturer <b>Johnson</b>
L. Borehole, diameter <b>8.25</b> in.	c. Slot size: <b>0.010</b> in.
M. O.D. well casing <b>2.40</b> in.	d. Slotted length: <b>5</b> ft.
N. I.D. well casing <b>2.06</b> in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>

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

Signature **Darrin Prentice** Firm **Geiss Soil + Samples LLC**

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

Facility/Project Name <u>Luedtke Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-1</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ "	Wis. Unique Well No. <u>VR 692</u> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>11/14/2017</u> m m d d y y y y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Darrin Prontice</u> <u>Geiss Soil &amp; Samples LLC</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in.
C. Land surface elevation _____ ft. MSL	b. Length: _____ ft.
D. Surface seal, bottom _____ ft. MSL or _____ ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
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"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (at least analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#20 Red Flint</u>
E. Bentonite seal, top _____ ft. MSL or <u>5</u> ft.	b. Volume added _____ ft <sup>3</sup>
F. Fine sand, top _____ ft. MSL or <u>3</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u>
G. Filter pack, top _____ ft. MSL or <u>4</u> ft.	b. Volume added _____ ft <sup>3</sup>
H. Screen joint, top _____ ft. MSL or <u>5</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
I. Well bottom _____ ft. MSL or <u>15</u> ft.	10. Screen material: <u>PVC</u>
J. Filter pack, bottom _____ ft. MSL or <u>16</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom _____ ft. MSL or <u>16</u> ft.	b. Manufacturer <u>Johnson</u>
L. Borehole, diameter <u>8.25</u> in.	c. Slot size: <u>0.010</u> in.
M. O.D. well casing <u>2.40</u> in.	d. Slotted length: <u>16</u> ft.
N. I.D. well casing <u>2.06</u> in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>

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

Signature Darrin Prontice Firm Geiss Soil & Samples LLC

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



Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-2</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. <b>UR 693</b>   DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <b>11/17/2017</b>
Type of Well Well Code <b>11 / MW</b>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Darrin Prentice</b>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	<b>Geiss Soil + Samples LLC</b>
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number	

- A. Protective pipe, top elevation \_\_\_\_\_ ft. MSL
- B. Well casing, top elevation \_\_\_\_\_ ft. MSL
- C. Land surface elevation \_\_\_\_\_ ft. MSL
- D. Surface seal, bottom \_\_\_\_\_ ft. MSL or **0** ft.

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

13. Sieve analysis performed?  Yes  No

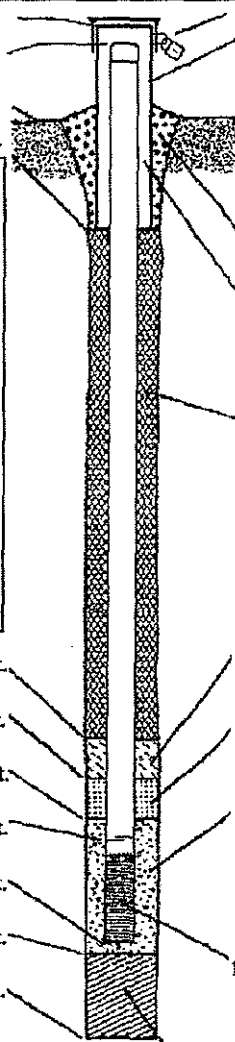
14. Drilling method used: Rotary  50  
 Hollow Stem Auger  41  
 Other

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

16. Drilling additives used?  Yes  No

Describe \_\_\_\_\_

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



- 1. Cap and lock?  Yes  No
- 2. Protective cover pipe:
  - a. Inside diameter: **8** in.
  - b. Length: **1** ft.
  - c. Material: Steel  04  
Other
  - d. Additional protection?  Yes  No  
If yes, describe: \_\_\_\_\_
- 3. Surface seal: Bentonite  30  
Concrete  01  
Other
- 4. Material between well casing and protective pipe: Bentonite  30  
Other
- 5. Annular space seal:
  - a. Granular/Chipped Bentonite  33
  - b. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite-sand slurry  35
  - c. \_\_\_\_\_ Lbs/gal mud weight ... Bentonite slurry  31
  - d. \_\_\_\_\_ % Bentonite ... Bentonite-cement grout  50
  - e. \_\_\_\_\_ Ft<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 chips  32
  - c. Other
- 7. Fine sand material: Manufacturer, product name & mesh size  
 a. **#20 Red Flint**
- b. Volume added \_\_\_\_\_ ft<sup>3</sup>
- 8. Filter pack material: Manufacturer, product name & mesh size  
 a. **#40 Red Flint**
- b. Volume added \_\_\_\_\_ 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 **Johnson**
  - c. Slot size: **0.010** in.
  - d. Slotted length: **15** ft.
- 11. Backfill material (below filter pack): None  14  
Other

- E. Bentonite seal, top \_\_\_\_\_ ft. MSL or **5** ft.
- F. Fine sand, top \_\_\_\_\_ ft. MSL or **3** ft.
- G. Filter pack, top \_\_\_\_\_ ft. MSL or **4** ft.
- H. Screen joint, top \_\_\_\_\_ ft. MSL or **5** ft.
- I. Well bottom \_\_\_\_\_ ft. MSL or **15** ft.
- J. Filter pack, bottom \_\_\_\_\_ ft. MSL or **16** ft.
- K. Borehole, bottom \_\_\_\_\_ ft. MSL or **16** ft.
- L. Borehole, diameter **8.25** in.
- M. O.D. well casing **2.40** in.
- N. I.D. well casing **2.06** in.

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

Signature **Darrin Prentice** Firm **Geiss Soil + Samples LLC**

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Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-3</b>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or " or "	Wis. Unique Well No. <b>VR 694</b> DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <b>11/14/2017</b> m m d d y y y y
Type of Well Well Code <b>11, MW</b>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Darrin Prontice Geiss Soil + Samples LLC</b>
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe: a. Inside diameter: <b>8</b> in. b. Length: <b>1</b> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation	ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:
D. Surface seal, bottom	ft. MSL or <b>0</b> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. <b>#20 Red Plint</b> b. Volume added <b>ft<sup>3</sup></b>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe		8. Filter pack material: Manufacturer, product name & mesh size a. <b>#40 Red Plint</b> b. Volume added <b>ft<sup>3</sup></b>
17. Source of water (attach analysis, if required):		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top	ft. MSL or <b>5</b> ft.	10. Screen material: <b>PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top	ft. MSL or <b>3</b> ft.	b. Manufacturer <b>Johnson</b> c. Slot size: <b>0.010</b> in. d. Slotted length: <b>18</b> ft.
G. Filter pack, top	ft. MSL or <b>4</b> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top	ft. MSL or <b>5</b> ft.	
I. Well bottom	ft. MSL or <b>15</b> ft.	
J. Filter pack, bottom	ft. MSL or <b>16</b> ft.	
K. Borehole, bottom	ft. MSL or <b>16</b> ft.	
L. Borehole, diameter	<b>8.25</b> in.	
M. O.D. well casing	<b>2.40</b> in.	
N. I.D. well casing	<b>2.06</b> in.	

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

Signature **Darrin Prontice** Firm **Geiss Soil + Samples LLC**

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Facility/Project Name <u>Luedtke Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-4</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <u>VR 695</u> DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed <u>11/14/2017</u> m m d d y y y y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Darrin Prentice</u> <u>Geiss Soil &amp; Samples LLC</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft.
C. Land surface elevation _____ ft. MSL	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
D. Surface seal, bottom _____ ft. MSL or _____ ft.	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
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"/>	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
Describe _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#20 Red Flint</u>
17. Source of water (attach analysis, if required):	b. Volume added _____ ft <sup>3</sup>
E. Bentonite seal, top _____ ft. MSL or <u>5</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u>
F. Fine sand, top _____ ft. MSL or <u>3</u> ft.	b. Volume added _____ ft <sup>3</sup>
G. Filter pack, top _____ ft. MSL or <u>4</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>5</u> ft.	10. Screen material: <u>PVC</u>
I. Well bottom _____ ft. MSL or <u>15</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
J. Filter pack, bottom _____ ft. MSL or <u>16</u> ft.	b. Manufacturer <u>Johnson</u>
K. Borehole, bottom _____ ft. MSL or <u>16</u> ft.	c. Slot size: <u>0.010</u> in.
L. Borehole, diameter <u>8.25</u> in.	d. Slotted length: <u>18</u> ft.
M. O.D. well casing <u>2.40</u> in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
N. I.D. well casing <u>2.06</u> in.	

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

Signature Darrin Prentice Firm Geiss Soil & Samples LLC

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Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>MW-5</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. <b>VR 696</b> DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <b>11/14/2017</b> m m d d y y y y
Type of Well Well Code <b>11, MW</b>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Installed By: Name (first, last) and Firm <b>Darrin Prentice</b> <b>Geiss Soil + Samples LLC</b>
Distance from Waste/Source ft. <input type="checkbox"/> Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation ----- ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation ----- ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>1</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation ----- ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom ----- ft. MSL or <u>0</u> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#20 Red Flint</u> b. Volume added _____ ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top ----- ft. MSL or <u>5</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top ----- ft. MSL or <u>3</u> ft.	b. Manufacturer <u>Johnson</u>
G. Filter pack, top ----- ft. MSL or <u>4</u> ft.	c. Slot size: <u>0.010</u> in.
H. Screen joint, top ----- ft. MSL or <u>5</u> ft.	d. Slotted length: <u>18</u> ft.
I. Well bottom ----- ft. MSL or <u>15</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
J. Filter pack, bottom ----- ft. MSL or <u>16</u> ft.	
K. Borehole, bottom ----- ft. MSL or <u>16</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>2.06</u> in.	

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

Signature Darrin Prentice Firm Geiss Soil + Samples LLC

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Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <b>MW-6</b>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. _____ "Long. _____ " or	Wis. Unique Well No. <b>VR 697</b> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <b>11/14/2017</b> m m d d y y v v y
Type of Well Well Code <b>11 / MW</b>	Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Darrin Prontice</b> <b>Geiss Soil &amp; Samples LLC</b>
Distance from Waste/Source _____ ft. Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation _____ ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation _____ ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <b>0</b> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <b>#20 Red Flint</b> b. Volume added _____ ft <sup>3</sup>
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <b>#40 Red Flint</b> b. Volume added _____ ft <sup>3</sup>
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <b>5</b> ft.	10. Screen material: <b>PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <b>3</b> ft.	b. Manufacturer <b>Johnson</b> c. Slot size: <b>0.010</b> in. d. Slotted length: <b>10</b> ft.
G. Filter pack, top _____ ft. MSL or <b>4</b> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <b>5</b> ft.	
I. Well bottom _____ ft. MSL or <b>15</b> ft.	
J. Filter pack, bottom _____ ft. MSL or <b>16</b> ft.	
K. Borehole, bottom _____ ft. MSL or <b>16</b> ft.	
L. Borehole, diameter <b>8.25</b> in.	
M. O.D. well casing <b>2.40</b> in.	
N. I.D. well casing <b>2.06</b> in.	

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

Signature **Darrin Prontice** Firm **Geiss Soil & Samples LLC**

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Facility/Project Name <u>Luedtke Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-7</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <u>VR698</u> DNR Well ID No.
Facility ID	Lat. " Long. " or " or "	Date Well Installed <u>11/17/2017</u>
Type of Well Well Code <u>11, MW</u>	St. Plane ft. N. ft. E. S/C/N	Well Installed By: Name (first, last) and Firm <u>Darrin Prentice</u>
Distance from Waste/Source ft.	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E. <input type="checkbox"/> W.	<u>Geiss Soil + Samples LLC</u>
Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation ----- ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation ----- ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in.
C. Land surface elevation ----- ft. MSL	b. Length: <u>1</u> ft.
D. Surface seal, bottom ----- ft. MSL or <u>0</u> ft.	c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
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"/>	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite . . . . . Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft <sup>3</sup> volume added for any of the above
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
Describe _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
17. Source of water (attach analysis, if required): _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#20 Red Flint</u>
E. Bentonite seal, top ----- ft. MSL or <u>5</u> ft.	b. Volume added _____ ft <sup>3</sup>
F. Fine sand, top ----- ft. MSL or <u>3</u> ft.	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u>
G. Filter pack, top ----- ft. MSL or <u>4</u> ft.	b. Volume added _____ ft <sup>3</sup>
H. Screen joint, top ----- ft. MSL or <u>5</u> ft.	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
I. Well bottom ----- ft. MSL or <u>15</u> ft.	10. Screen material: <u>PVC</u>
J. Filter pack, bottom ----- ft. MSL or <u>16</u> ft.	a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
K. Borehole, bottom ----- ft. MSL or <u>16</u> ft.	b. Manufacturer <u>Johnson</u>
L. Borehole, diameter <u>8.25</u> in.	c. Slot size: <u>0.010</u> in.
M. O.D. well casing <u>2.40</u> in.	d. Slotted length: <u>16</u> ft.
N. I.D. well casing <u>2.06</u> in.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>

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

Signature Darrin Prentice Firm Geiss Soil + Samples LLC

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Facility/Project Name <b>Luedtke Property</b>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <b>M61-8</b>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/> ) or Well Location <input type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. <b>VR 699</b> DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <b>11/17/2017</b>
Type of Well Well Code <b>11 / MW</b>	Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N, R. <input type="checkbox"/> E <input type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <b>Darrin Prentice Geiss Soil + Samples LLC</b>
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number
Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	ft. MSL	2. Protective cover pipe: a. Inside diameter: <b>8</b> in. b. Length: <b>1</b> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation	ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:
D. Surface seal, bottom	ft. MSL or <b>0</b> ft.	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
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"/>		4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. <b>#20 Red Flint</b> b. Volume added ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		8. Filter pack material: Manufacturer, product name & mesh size a. <b>#40 Red Flint</b> b. Volume added ft <sup>3</sup>
Describe		9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):		10. Screen material: <b>PVC</b> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top	ft. MSL or <b>5</b> ft.	b. Manufacturer <b>Johnson</b> c. Slot size: <b>0.010</b> in. d. Slotted length: <b>16</b> ft.
F. Fine sand, top	ft. MSL or <b>3</b> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
G. Filter pack, top	ft. MSL or <b>4</b> ft.	
H. Screen joint, top	ft. MSL or <b>5</b> ft.	
I. Well bottom	ft. MSL or <b>15</b> ft.	
J. Filter pack, bottom	ft. MSL or <b>16</b> ft.	
K. Borehole, bottom	ft. MSL or <b>16</b> ft.	
L. Borehole, diameter	<b>8.25</b> in.	
M. O.D. well casing	<b>2.40</b> in.	
N. I.D. well casing	<b>2.06</b> in.	

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

Signature **Darrin Prentice** Firm **Geiss Soil + Samples LLC**

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name PZ-1
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR691
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 125 min.

4. Depth of well (from top of well casing) 30 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 23.9 gal.

7. Volume of water removed from well 65 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>8.22</u> ft.	<u>15.81</u> ft.
Date	b. <u>11 / 13 / 2017</u>	<u>11 / 13 / 2017</u>
Time	c. <u>02 : 10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>04 : 15</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Clear</u>
	<u>High turbidity</u>	<u>Low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Eric	Last Name: Dahl
Firm:	METCO	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

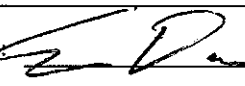
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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



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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-1
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR692
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/> 41
surged with bailer and pumped	<input checked="" type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 80 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 9.4 gal.

7. Volume of water removed from well 90 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.41</u> ft.	<u>6.72</u> ft.
Date	b. <u>11 / 13 / 2017</u>	<u>11 / 13 / 2017</u>
Time	c. <u>02 : 10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>03 : 30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Brown</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear</u>
	<u>High turbidity</u>	<u>Low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Eric	Last Name: Dahl
Firm:	METCO	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

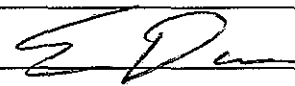
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR693
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/> 41
surged with bailer and pumped	<input type="checkbox"/> 61
surged with block and bailed	<input type="checkbox"/> 42
surged with block and pumped	<input type="checkbox"/> 62
surged with block, bailed and pumped	<input type="checkbox"/> 70
compressed air	<input type="checkbox"/> 20
bailed only	<input type="checkbox"/> 10
pumped only	<input type="checkbox"/> 51
pumped slowly	<input type="checkbox"/> 50
Other _____	<input type="checkbox"/>

3. Time spent developing well 45 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.2 gal.

7. Volume of water removed from well 20 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>7.52</u> ft.	<u>10.49</u> ft.
Date	b. <u>11 / 13 / 2017</u>	<u>11 / 13 / 2017</u>
Time	c. <u>03 : 30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>04 : 15</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Tan</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear</u>
	<u>High turbidity</u>	<u>Low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Eric</u>	Last Name: <u>Dahl</u>
Firm:	<u>METCO</u>	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

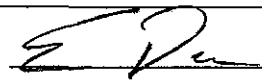
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-3
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR694
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 60 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.9 gal.

7. Volume of water removed from well 60 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.88</u> ft.	<u>8.52</u> ft.
Date	b. <u>11 / 14 / 2017</u> m m d d y y y y	<u>11 / 14 / 2017</u> m m d d y y y y
Time	c. <u>07 : 40</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>08 : 40</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Brown</u>	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) <u>Clear</u>
	<u>High turbidity</u>	<u>Low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Eric</u>	Last Name: <u>Dahl</u>
Firm:	<u>METCO</u>	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

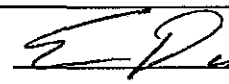
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-4
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR695
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 60 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8 gal.

7. Volume of water removed from well 60 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.98</u> ft.	<u>7.09</u> ft.
Date	b. <u>11 / 14 / 2017</u>	<u>11 / 14 / 2017</u>
Time	c. <u>09 : 00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10 : 00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) _____ Tan _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____ Clear _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Eric	Last Name: Dahl
Firm:	METCO	

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

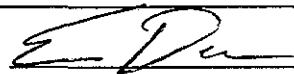
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-5
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR696
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	41
surged with bailer and pumped	<input checked="" type="checkbox"/>	61
surged with block and bailed	<input type="checkbox"/>	42
surged with block and pumped	<input type="checkbox"/>	62
surged with block, bailed and pumped	<input type="checkbox"/>	70
compressed air	<input type="checkbox"/>	20
bailed only	<input type="checkbox"/>	10
pumped only	<input type="checkbox"/>	51
pumped slowly	<input type="checkbox"/>	50
Other _____	<input type="checkbox"/>	

3. Time spent developing well 45 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 9.4 gal.

7. Volume of water removed from well 45 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.49</u> ft.	<u>6.66</u> ft.
Date	b. <u>11 / 14 / 2017</u>	<u>11 / 14 / 2017</u>
Time	c. <u>10 : 20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11 : 05</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Tan</u>	Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>Clear</u>
	<u>High turbidity</u>	<u>Low turbidity</u>
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	<u>Eric</u>	Last Name: <u>Dahl</u>
Firm:	<u>METCO</u>	

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

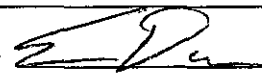
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-6
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR697
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 50 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.8 gal.

7. Volume of water removed from well 50 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>6.95</u> ft.	<u>7.05</u> ft.
Date	b. <u>11 / 14 / 2017</u>	<u>11 / 14 / 2017</u>
Time	c. <u>11 : 20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>12 : 10</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) Tan _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) Clear _____
	High turbidity _____	Low turbidity _____
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm		
First Name:	Eric	Last Name: Dahl
Firm:	METCO	

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

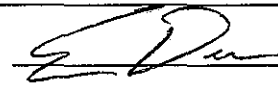
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-7
Facility License, Permit or Monitoring Number	County Code 35	Wis. Unique Well Number VR698
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 60 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.6 gal.

7. Volume of water removed from well 60 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>7.71</u> ft.	<u>7.78</u> ft.
Date	b. <u>11 / 14 / 2017</u>	<u>11 / 14 / 2017</u>
Time	c. <u>12 : 25</u> <input checked="" type="checkbox"/> p.m.	<u>01 : 25</u> <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) TAn	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) Clear
	High turbidity	Low turbidity
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l
16. Well developed by: Name (first, last) and Firm	First Name: Eric Last Name: Dahl Firm: METCO	

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party


First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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

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

Facility/Project Name Luedtke Property	County Name LINCOLN	Well Name MW-8
Facility License, Permit or Monitoring Number	County Code .35	Wis. Unique Well Number VR699
		DNR Well ID Number

1. Can this well be purged dry?  Yes  No

2. Well development method

surged with bailer and bailed	<input type="checkbox"/>	4 1
surged with bailer and pumped	<input checked="" type="checkbox"/>	6 1
surged with block and bailed	<input type="checkbox"/>	4 2
surged with block and pumped	<input type="checkbox"/>	6 2
surged with block, bailed and pumped	<input type="checkbox"/>	7 0
compressed air	<input type="checkbox"/>	2 0
bailed only	<input type="checkbox"/>	1 0
pumped only	<input type="checkbox"/>	5 1
pumped slowly	<input type="checkbox"/>	5 0
Other _____	<input type="checkbox"/>	

3. Time spent developing well 80 min.

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

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.7 gal.

7. Volume of water removed from well 80 gal.

8. Volume of water added (if any) \_\_\_\_\_ gal.

9. Source of water added \_\_\_\_\_

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>7.05</u> ft.	<u>9.42</u> ft.
Date	b. <u>11 / 14 / 2017</u> m m d d y y y y	<u>11 / 14 / 2017</u> m m d d y y y y
Time	c. <u>02 : 00</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.	<u>03 : 20</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear <input type="checkbox"/> 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) Tan _____ High turbidity _____	Clear <input checked="" type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) Clear _____ Low turbidity _____

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

14. Total suspended solids \_\_\_\_\_ mg/l

15. COD \_\_\_\_\_ mg/l

16. Well developed by: Name (first, last) and Firm  
First Name: Eric Last Name: Dahl  
Firm: METCO

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

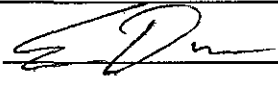
First Name: Todd Last Name: Luedtke

Facility/Firm: Responsible Party

Street: 426 Crowfoot Avenue

City/State/Zip: Fond du Lac WI 54935-

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

Signature: 

Print Name: Eric Dahl

Firm: METCO

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



Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-1</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/08/2017 MM/DD/YYYY	Drilling Date Completed 05/08/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Local Grid Location N E Feet S Feet W	
Facility ID <b>735041230</b>	County <b>Lincoln</b>	County Code <b>35</b>	Civil Town / City / Village <b>City of Tomahawk</b>	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-1-1 (0-4 feet)	48 36		0-4	Tan fine to medium grained sand	SP			0.4		Dry				No Petro Odor
G-1-2 (4-8 feet)	48 12		4-8	Tan fine to coarse grained sand with gravel and bricks	FILL			0.7		M/W				Petro Odor
G-1-3 (8-12 feet)	48 12		8-12	Tan fine to coarse grained sand with gravel and bricks	FILL			81		W				Petro Odor
				EOB @ 12 Feet. Groundwater sample G-1-W collected at 8-12 feet. Borehole Abandoned.										

Signature: \_\_\_\_\_

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-2</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started <b>05/08/2017</b> MM/DD/YYYY	Drilling Date Completed <b>05/08/2017</b> MM/DD/YYYY	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level <b>1,442 Feet MSL</b>	Surface Elevation <b>1,450 Feet MSL</b>
Local Grid Origin (estimated X) or Boring Location State Plane <b>N, E</b> SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Local Grid Location <b>N E</b> Feet S Feet W	
Facility ID <b>735041230</b>	County <b>Lincoln</b>	County Code <b>35</b>	Civil Town / City / Village <b>City of Tomahawk</b>	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
G-2-1 (0-4 feet)	48 36		2 4	Tan fine to medium grained sand	SP			1.1		Dry				No Petro Odor
G-2-2 (4-8 feet)	48 24		6 8	Brown fine to coarse grained sand with gravel	SP			0.6		M				Slight Petro Odor
G-2-3 (8-12 feet)	48 30		10 12	Brown fine to coarse grained sand with gravel	SP			10.4		W				Slight Petro Odor
				EOB @ 12 Feet. Groundwater sample G-2-W collected at 7-12 feet. Borehole Abandoned.										

Signature: Firm: **METCO**

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Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-3</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/08/2017 MM/ DD/ YYYY	Drilling Date Completed 05/08/2017 MM/ DD/ YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Local Grid Location N E Feet S Feet W	
Facility ID 735041230		County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-3-1 (0-4 feet)	48 30		2 4	Tan fine to coarse grained sand with gravel	SP			0.9		Dry				No Petro Odor
G-3-2 (4-8 feet)	48 12		6 8	Brown fine to coarse grained sand with gravel	SP			1.0		M				No Petro Odor
G-3-3 (8-10 feet)	24 12		10	Brown fine to coarse grained sand with gravel	SP			3.7		W				Slight Petro Odor
				EOB @ 10 Feet. Groundwater sample G-3-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-4</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/08/2017 MM/DD/YYYY	Drilling Date Completed 05/08/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL Borehole Diameter 2 inches
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Local Grid Location Lat 45° 28' 15" Long 89° 43' 47" Feet S Feet W	
Facility ID 735041230	County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-4-1 (0-4 feet)	48 30		2 4	Tan fine to coarse grained sand with gravel	SP			0.6		Dry				No Petro Odor
G-4-2 (4-8 feet)	48 24		6 8	Tan fine to coarse grained sand with gravel	SP			0.9		M				No Petro Odor
G-4-3 (8-10 feet)	24 18		10	Brown fine to coarse grained sand with gravel	SP			16		W				Slight Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-4-W collected at 5-10 feet. Borehole Abandoned.										

Signature: Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment: **X**

Waste Management:

Other:

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-5</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: <b>Darrin</b> Last: <b>Prentice</b> Firm: <b>Geiss Soil &amp; Samples, LLC</b>		Drilling Date Started <b>05/08/2017</b> MM / DD / YYYY	Drilling Date Completed <b>05/08/2017</b> MM / DD / YYYY	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level <b>1,442 Feet MSL</b>	Surface Elevation <b>1,450 Feet MSL</b>
Local Grid Origin (estimated X) or Boring Location		Borehole Diameter <b>2 inches</b>		
State Plane <b>N, E</b>	Lat <b>45° 28' 15"</b>	Local Grid Location <b>N E</b>		
<b>SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E</b>		Long <b>89° 43' 47"</b>	Feet S Feet W	
Facility ID <b>735041230</b>	County <b>Lincoln</b>	County Code <b>35</b>	Civil Town / City / Village <b>City of Tomahawk</b>	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-5-1 (0-4 feet)	48 18		2 4	Tan fine to coarse grained sand with gravel	SP			0.5		Dry				No Petro Odor
G-5-2 (4-8 feet)	48 6		6 8	Tan fine to coarse grained sand with gravel	SP			0.9		M				No Petro Odor
G-5-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			0.8		W				No Petro Odor
			10-24	EOB @ 10 Feet. Groundwater sample G-5-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-6</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/08/2017 MM/ DD/ YYYY	Drilling Date Completed 05/08/2017 MM/ DD/ YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Borehole Diameter 2 inches	
State Plane N, E		Lat 45° 28' 15"	Local Grid Location N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID 735041230	County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-6-1 (0-4 feet)	48 24		2 4	Tan fine to coarse grained sand with gravel	SP			1.0		Dry				No Petro Odor
G-6-2 (4-8 feet)	48 6		6 8	Tan fine to coarse grained sand with gravel	SP			1.6		Dry				No Petro Odor
G-6-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			229		W				Petro Odor
				EOB @ 10 Feet. Groundwater sample G-6-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

Route To: Watershed / Wastewater: Waste Management:  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-7
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin	Last: Prentice	05/08/2017	05/08/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
				Borehole Diameter
				2 inches
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane	N, E	Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
G-7-1 (0-4 feet)	48 30		2 4	Tan fine to coarse grained sand with gravel	SP			3.0		M					No Petro Odor
G-7-2 (4-8 feet)	48 18		6 8	Tan fine to coarse grained sand with gravel	SP			4.5		M					No Petro Odor
G-7-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			149		W					Petro Odor
				EOB @ 10 Feet. Groundwater sample G-7-W collected at 5-10 feet. Borehole Abandoned.											

Signature:

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page **1** of **1**

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-8
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/08/2017	05/08/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
				Borehole Diameter
				2 inches
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane N, E			Lat 45° 28' 15"	N E
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Long 89° 43' 47"	Feet S Feet W
Facility ID		County	County Code	Civil Town / City / Village
735041230		Lincoln	35	City of Tomahawk

Number & Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
G-8-1 (0-4 feet)	48 36		2 4	Tan fine to coarse grained sand with gravel	SP			9.0		Dry				No Petro Odor
G-8-2 (4-8 feet)	48 24		6 8	Tan fine to coarse grained sand with gravel	SP			975		M/W				Petro Odor from 6-8 feet
G-8-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			1006		W				Petro Odor
				EOB @ 10 Feet. Groundwater sample G-8-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

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Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-9
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/08/2017	05/08/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane N, E		Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID		County	County Code	Civil Town / City / Village
735041230		Lincoln	35	City of Tomahawk

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-9-1 (0-4 feet)	48 36		2 4	Tan fine to coarse grained sand with gravel	SP			3.2		M				No Petro Odor
G-9-2 (4-8 feet)	48 36		6 8	Tan fine to coarse grained sand with gravel	SP			319		MW				Petro Odor from 6-8 feet
G-9-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			227		W				Petro Odor
				EOB @ 10 Feet. Groundwater sample G-9-W collected at 5-10 feet. Borehole Abandoned.										

Signature: \_\_\_\_\_

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-10</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/08/2017 MM/DD/YYYY	Drilling Date Completed 05/08/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Local Grid Location Lat 45° 28' 15" N Long 89° 43' 47" E		Borehole Diameter 2 inches
Facility ID 735041230		County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk

Number & Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
G-10-1 (0-4 feet)	48 36		2 4	Tan fine to coarse grained sand with gravel	SP			2.1		M				No Petro Odor
G-10-2 (4-8 feet)	48 36		6 8	Tan fine to coarse grained sand with gravel	SP			1044		M/W				Petro Odor from 6-8 feet
G-10-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			215		W				Petro Odor
			10-24	EOB @ 10 Feet. Groundwater sample G-10-W collected at 5-10 feet. Borehole Abandoned.										

Signature: Firm: **METCO**

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Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
 Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-11
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/08/2017	05/08/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Borehole Diameter	
State Plane N, E			2 inches	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Lat 45° 28' 15"	Local Grid Location N E
			Long 89° 43' 47"	Feet S Feet W
Facility ID		County	County Code	Civil Town / City / Village
735041230		Lincoln	35	City of Tomahawk

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-11-1 (0-4 feet)	48 30		2 4	Tan fine to coarse grained sand with gravel	SP			1.4		M				No Petro Odor
G-11-2 (4-8 feet)	48 6		6 8	Tan fine to coarse grained sand with gravel	SP			28		M				Petro Odor from 6-8 feet
G-11-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			35		W				Slight Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-11-W collected at 5-10 feet. Borehole Abandoned.										

Signature: Firm: **METCO**

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Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-12
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/08/2017	05/08/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY	MM /DD/ YYYY	
Wt Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Borehole Diameter	
State Plane N, E			2 inches	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Lat 45° 28' 15"	Local Grid Location N E
			Long 89° 43' 47"	Feet S Feet W
Facility ID		County	County Code	Civil Town / City / Village
735041230		Lincoln	35	City of Tomahawk

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-12-1 (0-4 feet)	48 18		2	Tan fine to coarse grained sand with gravel	SP			4.5		Dry				No Petro Odor
G-12-2 (4-8 feet)	48 18		6	Tan fine to coarse grained sand with gravel	SP			0.7		M				No Petro Odor
G-12-3 (8-10 feet)	24 24		10	Brown fine to coarse grained sand with gravel	SP			47		W				Petro Odor
			12	EOB @ 10 Feet. Groundwater sample G-12-W collected at 5-10 feet. Borehole Abandoned.										
			14											
			16											
			18											
			20											
			22											
			24											


Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed / Wastewater: Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-13</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: <b>Darrin</b> Last: <b>Prentice</b> Firm: <b>Geiss Soil &amp; Samples, LLC</b>		Drilling Date Started <b>05/09/2017</b> MM/ DD/ YYYY	Drilling Date Completed <b>05/09/2017</b> MM/ DD/ YYYY	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level <b>1,442 Feet MSL</b>	Surface Elevation <b>1,450 Feet MSL</b>
Local Grid Origin (estimated X) or Boring Location State Plane <b>N, E</b>		Local Grid Location Lat <b>45° 28' 15"</b> Long <b>89° 43' 47"</b>		
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Feet S	Feet W	
Facility ID <b>735041230</b>	County <b>Lincoln</b>	County Code <b>35</b>	Civil Town / City / Village <b>City of Tomahawk</b>	

Number & Type	Length Alt. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties						RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			2	Concrete										
G-13-1 (0-4 feet)	48 24		4	Tan fine to medium grained sand	SP			2.4		Dry				No Petro Odor
G-13-2 (4-6 feet)	48 24		6	Tan fine to coarse grained sand with gravel	SP			4.9		M				No Petro Odor
G-13-3 (8-10 feet)	24 24		8	Tan fine to coarse grained sand with gravel	SP			8.7		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-13-W collected at 5-10 feet. Borehole Abandoned.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

Signature: 

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
 Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-14
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY	MM /DD/ YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
				Borehole Diameter
				2 inches
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane N, E			Lat 45° 28' 15" N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Long 89° 43' 47" Feet S Feet W	
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Number & Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
			2	Concrete										
G-14-1 (0-4 feet)	48 24		4	Tan fine to medium grained sand	SP			6.1		M				No Petro Odor
G-14-2 (4-8 feet)	48 24		6	Tan fine to coarse grained sand with gravel	SP			6.0		M				No Petro Odor
G-14-3 (8-10 feet)	24 24		8	Brown fine to coarse grained sand with gravel	SP			335		W				Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-14-W collected at 5-10 feet. Borehole Abandoned.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

Signature: \_\_\_\_\_

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name Luetke Property		License / Permit / Monitoring Number		Boring Number G-15
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/09/2017 MM/DD/YYYY	Drilling Date Completed 05/09/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E			Local Grid Location N E Feet S Feet W	
Facility ID 735041230		County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Concrete										
G-15-1 (0-4 feet)	48 30		4	Tan fine to coarse grained sand with gravel	SP			4.9		Dry				No Petro Odor
G-15-2 (4-8 feet)	48 24		8	Tan fine to coarse grained sand with gravel	SP			8.2		M				No Petro Odor
G-15-3 (8-10 feet)	24 24		10	Gray fine to coarse grained sand with gravel	SP			37		W				Petro Odor
			12	EOB @ 10 Feet. Groundwater sample G-15-W collected at 5-10 feet. Borehole Abandoned.										
			14											
			16											
			18											
			20											
			22											
			24											

Signature: \_\_\_\_\_

Firm: **METCO**

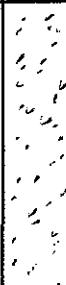


Route To:

Watershed / Wastewater:  
Remediation / Redevelopment: **X**

Waste Management:

Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-16</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/09/2017 MM/DD/YYYY	Drilling Date Completed 05/09/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location		Local Grid Location		
State Plane N, E		Lat 45° 28' 15"		N E
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"		Feet S Feet W
Facility ID 735041230	County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Concrete										
G-16-1 (0-4 feet)	48 30		4	Tan fine to coarse grained sand with gravel	SP			5.1		M				No Petro Odor
G-16-2 (4-8 feet)	48 24		6	Tan fine to coarse grained sand with gravel	SP			6.4		M				No Petro Odor
G-16-3 (8-10 feet)	24 24		8	Brown fine to coarse grained sand with gravel	SP			5.6		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-16-W collected at 5-10 feet. Borehole Abandoned.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

Signature: 


Firm: **METCO**



Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-17
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin	Last: Prentice	05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY	MM/ DD/ YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane	N, E	Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S	Feet W
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties						RQD / Comments	
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			2	Concrete											
G-17-1 (0-4 feet)	48 24		4	Tan fine to coarse grained sand with gravel	SP			5.8		M					No Petro Odor
G-17-2 (4-8 feet)	48 24		8	Tan fine to coarse grained sand with gravel	SP			8.6		M/W					No Petro Odor
			8	EOB @ 8 Feet. Groundwater sample G-17-W collected at 3-8 feet. Borehole Abandoned.											

Signature: 

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-18
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice		05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY	MM /DD/ YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane N, E		Lat 45° 28' 15"		N E
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"		Feet S Feet W
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

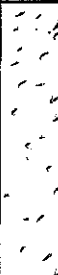


Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	P/D / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Concrete										
G-18-1 (0-4 feet)	48 24		4	Tan fine to medium grained sand	SP			7.3		M				No Petro Odor
G-18-2 (4-8 feet)	48 30		6	Tan fine to coarse grained sand with gravel	SP			5.1		M/W				No Petro Odor
G-18-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			6.4		W				No Petro Odor
			12	EOB @ 10 Feet. Groundwater sample G-18-W collected at 5-10 feet. Borehole Abandoned.										
			14											
			16											
			18											
			20											
			22											
			24											

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-19</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: <b>Darrin</b> Last: <b>Prentice</b> Firm: <b>Geiss Soil &amp; Samples, LLC</b>		Drilling Date Started <b>05/09/2017</b> MM / DD / YYYY	Drilling Date Completed <b>05/09/2017</b> MM / DD / YYYY	Drilling Method <b>Geoprobe</b>
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level <b>1,442 Feet MSL</b>	Surface Elevation <b>1,450 Feet MSL</b>
Local Grid Origin (estimated X) or Boring Location		Local Grid Location		
State Plane <b>N, E</b> SW ¼ of Section 34, T 35 N, R 6 E		Lat <b>45° 28' 15"</b> Long <b>89° 43' 47"</b>	Local Grid Location <b>N E</b> Feet S Feet W	
Facility ID <b>735041230</b>	County <b>Lincoln</b>	County Code <b>35</b>	Civil Town / City / Village <b>City of Tomahawk</b>	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Concrete										
G-19-1 (0-4 feet)	48 24		4	Tan fine to coarse grained sand with gravel	SP			5.8		M				No Petro Odor
G-19-2 (4-8 feet)	48 30		8	Tan fine to coarse grained sand with gravel	SP			4.7		M				No Petro Odor
G-19-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			5.8		W				No Petro Odor
			12	EOB @ 10 Feet. Groundwater sample G-19-W collected at 5-10 feet. Borehole Abandoned.										
			14											
			16											
			18											
			20											
			22											
			24											

Signature: 

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_ Page 1 of 1

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-20
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin	Last: Prentice	05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY	MM/ DD/ YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
				Borehole Diameter
				2 inches
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane	N, E	Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-20-1 (0-4 feet)	48 24		2 4	Tan fine to medium grained sand	SP			5.8		M				No Petro Odor
G-20-2 (4-8 feet)	48 30		6 8	Tan fine to coarse grained sand with gravel	SP			5.8		M				No Petro Odor
G-20-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			5000+		W				Petro Odor
				EOB @ 10 Feet. Groundwater sample G-20-W collected at 5-10 feet. Borehole Abandoned.										
				12										
				14										
				16										
				18										
				20										
				22										
				24										

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment: **X** Other: \_\_\_\_\_

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-21</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: <b>Darrin</b> Last: <b>Prentice</b> Firm: <b>Geiss Soil &amp; Samples, LLC</b>		Drilling Date Started <b>05/09/2017</b> MM/ DD/ YYYY		Drilling Date Completed <b>05/09/2017</b> MM /DD/ YYYY	
Drilling Method <b>Geoprobe</b>		Final Static Water Level <b>1,442 Feet MSL</b>		Surface Elevation <b>1,450 Feet MSL</b>	
Well Name		Borehole Diameter <b>2 inches</b>			
Local Grid Origin (estimated X) or Boring Location State Plane <b>N, E</b> <b>SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E</b>				Local Grid Location <b>N E</b> Feet <b>S</b> Feet <b>W</b>	
Facility ID <b>735041230</b>		County <b>Lincoln</b>		County Code <b>35</b>	
		Civil Town / City / Village <b>City of Tomahawk</b>			

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-21-1 (0-4 feet)	48 30		2	Tan fine to coarse grained sand with gravel	SP			6.7		M				No Petro Odor
G-21-2 (4-8 feet)	48 30		4	Tan fine to coarse grained sand with gravel	SP			8.4		M				No Petro Odor
G-21-3 (8-10 feet)	24 24		8	Tan fine to coarse grained sand with gravel	SP			5000+		W				Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-21-W collected at 5-10 feet. Borehole Abandoned.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

Signature: \_\_\_\_\_

Firm: **METCO**

Route To: Watershed / Wastewater: Waste Management: Page 1 of 1  
Remediation / Redevelopment: **X** Other:

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-22
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin	Last: Prentice	05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane	N, E	Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-22-1 (0-4 feet)	48 30		2 4	Tan fine to coarse grained sand with gravel	SP			5.1		M				No Petro Odor
G-22-2 (4-8 feet)	48 30		6 8	Tan fine to coarse grained sand with gravel	SP			6.4		M				No Petro Odor
G-22-3 (8-10 feet)	24 24		10	Tan fine to coarse grained sand with gravel	SP			7.1		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-22-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

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

Facility / Project Name <b>Luetke Property</b>		License / Permit / Monitoring Number		Boring Number <b>G-23</b>
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/09/2017 MM/DD/YYYY	Drilling Date Completed 05/09/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 1,442 Feet MSL	Surface Elevation 1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Local Grid Location Lat 45° 28' 15" Long 89° 43' 47"		Feet S Feet W
Facility ID 735041230	County Lincoln	County Code 35	Civil Town / City / Village City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-23-1 (0-4 feet)	48 30		2	Brown fine to coarse grained sand with gravel	SP			3.9		M				No Petro Odor
G-23-2 (4-8 feet)	48 30		4	Tan fine to coarse grained sand with gravel	SP			5.8		M				No Petro Odor
G-23-3 (8-10 feet)	24 24		8	Tan fine to coarse grained sand with gravel	SP			7.0		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-23-W collected at 5-10 feet. Borehole Abandoned.										

Signature: 

Firm: **METCO**

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

Facility / Project Name		License / Permit / Monitoring Number		Boring Number
Luetke Property				G-24
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin	Last: Prentice	05/09/2017	05/09/2017	Geoprobe
Firm: Geiss Soil & Samples, LLC		MM/DD/YYYY	MM/DD/YYYY	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation
			1,442 Feet MSL	1,450 Feet MSL
Local Grid Origin (estimated X) or Boring Location			Local Grid Location	
State Plane	N, E	Lat 45° 28' 15"	N E	
SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Long 89° 43' 47"	Feet S Feet W	
Facility ID	County	County Code	Civil Town / City / Village	
735041230	Lincoln	35	City of Tomahawk	

Number & Type	Length Att. & Recovered (m)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
G-24-1 (0-4 feet)	48 24		2	Tan fine to coarse grained sand with gravel	SP			7.3		M				No Petro Odor
G-24-2 (4-8 feet)	48 30		4	Tan fine to medium grained sand	SP			5.1		M				No Petro Odor
G-24-3 (8-10 feet)	24 24		8	Tan fine to coarse grained sand with gravel	SP			8.9		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-24-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**



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

Facility / Project Name Luetke Property		License / Permit / Monitoring Number		Boring Number G-25	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 05/09/2017 MM/ DD/ YYYY		Drilling Date Completed 05/09/2017 MM/ DD/ YYYY	
Drilling Method Geoprobe		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
Borehole Diameter 2 inches		Well Name		Local Grid Location	
Local Grid Origin (estimated X) or Boring Location		State Plane N, E SW ¼ of SW ¼ of Section 34, T 35 N, R 6 E		Lat 45° 28' 15" Long 89° 43' 47"	
Facility ID 735041230		County Lincoln		County Code 35	
Civil Town / City / Village City of Tomahawk		Well Unique Well No.		DNR Well ID No.	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-25-1 (0-4 feet)	48 0		2	No recovery										
G-25-2 (4-8 feet)	48 30		4	Tan fine to medium grained sand	SP			4.7		M				No Petro Odor
G-25-3 (8-10 feet)	24 24		8	Tan fine to coarse grained sand with gravel	SP			15.8		W				No Petro Odor
			10	EOB @ 10 Feet. Groundwater sample G-25-W collected at 5-10 feet. Borehole Abandoned.										

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment: **X**

Waste Management:  
Other:

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number <b>PZ-1</b>		Boring Number <b>PZ-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/13/2017 MM/DD/YYYY		Drilling Date Completed 11/13/2017 MM/DD/YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
Well Name <b>PZ-1</b>		Borehole Diameter 8"		Borehole Diameter	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E		Local Grid Location Lat 45° 28' 15" Long 89° 43' 47"		Local Grid Location N E Feet S Feet W	
Facility ID 735041230		County Lincoln		County Code 35	
		Civil Town / City / Village City of Tomahawk			

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
PZ-1-1 (3.5 feet)	48 30		4	Concrete 0-4' Tan fine to medium grained sand	SP			0.2		M				No petro odor
PZ-1-2 (4-8 feet)	48 0		8	4-8' No recovery										
PZ-1-3 (12 feet)	48 36		12	8-16' Tan fine to coarse grained sand with gravel	SP			23.1		W				Petro odor
PZ-1-4 (16 feet)	48 30		16					42		W				Petro odor
PZ-1-5 (20 feet)	48 42		20	16-24' Gray sandy silt	ML			14.2		W				Petro odor
PZ-1-6 (24 feet)	48 48		24	24-28' Tan very fine grained sand	SP			8.0		W				Slight petro odor
PZ-1-7 (28 feet)	48 48		28	28-30' Tan very fine grained sand to silty sand	SP/SM			5.0		W				Slight petro odor
PZ-1-8 (30 feet)	24 24		32	EOB at 30 feet bgs. Piezometer well PZ-1 was installed to 30 feet with a 10 foot screen.				2.0		W				Slight petro odor

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment:

Waste Management:  
Other:

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number		Boring Number <b>MW-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/13/2017 MM/DD/YYYY		Drilling Date Completed 11/13/2017 MM/DD/YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
Borehole Diameter 8"		Well Name MW-1		DNR Well ID No. VR692	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E		Local Grid Location Lat 45° 28' 15" Long 89° 43' 47"		Feet S Feet W	
Facility ID 735041230		County Lincoln		County Code 35	
Civil Town / City / Village City of Tomahawk					

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
MW-1-1 (3.5 feet)	48 24		4	Concrete 0-4' Tan fine to medium grained sand	SP			0.1		M				No petro odor
MW-1-2 (4-8 feet)	48 0			4-8' No recovery										
MW-1-3 (8 feet)	48 36		8	8-15' Tan fine to coarse grained sand with gravel	SP			24.5		W				Petro odor
MW-1-4 (15 feet)	36 36		16	EOB at 15 feet bgs. Monitoring well MW-1 was installed to 15 feet with a 10 foot screen.				25.7		W				Petro odor

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater: \_\_\_\_\_  
Remediation / Redevelopment:

Waste Management: \_\_\_\_\_  
Other: \_\_\_\_\_

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number <b>MW-2</b>		Boring Number <b>MW-2</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/13/2017 MM/ DD/ YYYY		Drilling Date Completed 11/13/2017 MM/ DD/ YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
Borehole Diameter 8"		Well Name MW-2		Well Unique Well No. DNR Well ID No. VR693	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E			Local Grid Location Lat 45° 28' 15" Long 89° 43' 47" N E Feet S Feet W		
Facility ID 735041230		County Lincoln		County Code 35	
				Civil Town / City / Village City of Tomahawk	

Number & Type	Sample			Soil Properties										RQD / Comments	
	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
MW-2-1 (3.5 feet)	48 36		4	0-4' Tan fine to medium grained sand	SP			0.1		M					No petro odor
MW-2-2 (4-8 feet)	48 0			4-8' No recovery											
MW-2-3 (9 feet)	48 36		8	8-12' Tan fine to coarse grained sand with gravel	SP			1.1		W					Petro odor
MW-2-4 (15 feet)	36 36		16	12-15' Tan fine to medium grained sand	SP			2.3		W					Petro odor
			16	EOB at 15 feet bgs. Monitoring well MW-2 was installed to 15 feet with a 10 foot screen.											

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment:

Waste Management:  
Other:

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number <b>MW-3</b>		Boring Number <b>MW-3</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/13/2017 MM/ DD/ YYYY		Drilling Date Completed 11/13/2017 MM /DD/ YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
WI Unique Well No. DNR Well ID No. VR694		Well Name MW-3		Borehole Diameter 8"	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E			Local Grid Location Lat 45° 28' 15" Long 89° 43' 47" Feet S Feet W		
Facility ID 735041230		County Lincoln		County Code 35	
		Civil Town / City / Village City of Tomahawk			

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-3-1 (3.5 feet)	48 24		4	0-8' Tan fine to coarse grained sand with gravel	SP			0.4		M				No petro odor
MW-3-2 (8 feet)	48 12		8	8-12' Tan very fine to fine grained sand	SP			0.1		M				No petro odor
MW-3-3 (10 feet)	48 42		12	12-15' Tan fine to coarse grained sand with gravel	SP			12.6		W				Petro odor
MW-3-4 (15 feet)	36 30		16	EOB at 15 feet bgs. Monitoring well MW-3 was installed to 15 feet with a 10 foot screen.				6.3		W				Petro odor

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

Signature:

Firm: **METCO**

Route To: \_\_\_\_\_ Watershed / Wastewater: \_\_\_\_\_ Waste Management: \_\_\_\_\_  
Remediation / Redevelopment:  Other: \_\_\_\_\_

Facility / Project Name		License / Permit / Monitoring Number		Boring Number	
Luedtke Property				MW-4	
Boring Drilled By: Name of crew chief (first, last) and Firm		Drilling Date Started		Drilling Date Completed	
First: Darrin Last: Prentice		11/14/2017		11/14/2017	
Firm: Geiss Soil & Samples, LLC		MM/ DD/ YYYY		MM /DD/ YYYY	
WI Unique Well No. DNR Well ID No.		Well Name		Final Static Water Level	
VR695		MW-4		1,442 Feet MSL	
				Surface Elevation	
				1,450 Feet MSL	
				Borehole Diameter	
				8"	
Local Grid Origin (estimated X) or Boring Location				Local Grid Location	
State Plane N, E				Lat 45° 28' 15"	
SW¼ of SW¼ of Section 34, T 35 N, R 6 E				Long 89° 43' 47"	
Facility ID		County		County Code	
735041230		Lincoln		35	
				Civil Town / City / Village	
				City of Tomahawk	

Number & Type	Sample			Soil Properties										
	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-4-1 (3.5 feet)	48 24		4	Concrete				0.1		M				No petro odor
MW-4-2 (8 feet)	48 30		8	0-8' Tan fine to coarse grained sand	SP			0.1		M				No petro odor
MW-4-3 (12 feet)	48 42		12	8-12' Tan fine to coarse grained sand with gravel	SP			0.3		W				No petro odor
MW-4-4 (15 feet)	36 36		16	12-15' Tan very fine grained sand	SP			0.5		W				No petro odor
			16	EOB at 15 feet bgs. Monitoring well MW-4 was installed to 15 feet with a 10 foot screen.										
			20											
			24											
			28											
			32											
			36											

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment: **X**

Waste Management:  
Other:

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number		Boring Number <b>MW-5</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/14/2017 MM/DD/YYYY		Drilling Date Completed 11/14/2017 MM/DD/YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
Borehole Diameter 8"		Well Name MW-5		Well Unique Well No. DNR Well ID No. VR696	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E			Local Grid Location Lat 45° 28' 15" Long 89° 43' 47" Feet S Feet W		
Facility ID 735041230		County Lincoln		County Code 35	
				Civil Town / City / Village City of Tomahawk	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
MW-5-1 (3.5 feet)	48 12		4	Concrete 0-4' Tan fine to coarse grained sand	SP			0.5		M				No petro odor
MW-5-2 (8 feet)	48 30		8	4-12' Tan fine to coarse grained sand with gravel	SP			0.7		M				No petro odor
MW-5-3 (12 feet)	48 12		12	12-15' Tan very fine grained sand	SP			0.8		W				No petro odor
MW-5-4 (15 feet)	36 36		16	EOB at 15 feet bgs. Monitoring well MW-5 was installed to 15 feet with a 10 foot screen.				0.7		W				No petro odor

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment:

Waste Management:  
Other:

Facility / Project Name Luedtke Property		License / Permit / Monitoring Number		Boring Number MW-6	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/14/2017 MM/DD/YYYY		Drilling Date Completed 11/14/2017 MM/DD/YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
WT Unique Well No. DNR Well ID No. VR697		Well Name MW-6		Borehole Diameter 8"	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E				Local Grid Location Lat 45° 28' 15" Long 89° 43' 47" Feet S Feet W	
Facility ID 735041230		County Lincoln		County Code 35	
Civil Town / City / Village City of Tomahawk					

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-6-1 (3.5 feet)	48 24		4	0-4' Tan fine to medium grained sand	SP			0.5		M				No petro odor
MW-6-2 (8 feet)	48 30		8	4-8' Tan fine to coarse grained sand	SP			0.6		M				No petro odor
MW-6-3 (12 feet)	48 36		12	8-12' Tan medium to coarse grained sand with gravel	SP			0.4		W				No petro odor
			12	12-13' Tan gravel	GP									
MW-6-4 (15 feet)	36 24		16	13-15' Tan very fine grained sand	SP			0.8		W				No petro odor
			16	EOB at 15 feet bgs. Monitoring well MW-6 was installed to 15 feet with a 10 foot screen.										

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

Signature:

Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.



Route To:

Watershed / Wastewater:  
Remediation / Redevelopment: **X**

Waste Management:  
Other:

Facility / Project Name <b>Luedtke Property</b>		License / Permit / Monitoring Number		Boring Number <b>MW-7</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 11/14/2017 MM/DD/YYYY		Drilling Date Completed 11/14/2017 MM/DD/YYYY	
Drilling Method Geoprobe/H.S.A.		Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	
WI Unique Well No. DNR Well ID No. Well Name <b>VR698 MW-7</b>		Borehole Diameter 8"			
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E				Local Grid Location Lat 45° 28' 15" N E Long 89° 43' 47" Feet S Feet W	
Facility ID 735041230		County Lincoln		County Code 35	
		Civil Town / City / Village City of Tomahawk			

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-7-1 (3.5 feet)	48 24		4	0-4' Tan very fine to medium grained sand	SP			0.4		M				No petro odor
MW-7-2 (8 feet)	48 30		8	4-8' Tan fine to medium grained sand	SP			0.4		M				No petro odor
MW-7-3 (12 feet)	48 24		12	8-12' Tan medium to coarse grained sand with gravel	SP			0.7		W				No petro odor
MW-7-4 (15 feet)	36 12		16	12-15' Tan fine to coarse grained sand	SP			0.6		W				No petro odor
			20	EOB at 15 feet bgs. Monitoring well MW-7 was installed to 15 feet with a 10 foot screen.										
			24											
			28											
			32											
			36											

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

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:  
Remediation / Redevelopment:

Waste Management:  
Other:

Facility / Project Name Luedtke Property		License / Permit / Monitoring Number			Boring Number MW-8	
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC				Drilling Date Started 11/14/2017 MM/DD/YYYY	Drilling Date Completed 11/14/2017 MM/DD/YYYY	Drilling Method Geoprobe/H.S.A.
WI Unique Well No. VR699	DNR Well ID No. MW-8	Well Name MW-8	Final Static Water Level 1,442 Feet MSL		Surface Elevation 1,450 Feet MSL	Borehole Diameter 8"
Local Grid Origin (estimated X) or Boring Location State Plane N, E SW¼ of SW¼ of Section 34, T 35 N, R 6 E				Local Grid Location Lat 45° 28' 15" Long 89° 43' 47"		Feet S Feet W
Facility ID 735041230		County Lincoln	County Code 35		Civil Town / City / Village City of Tomahawk	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-8-1 (3.5 feet)	48 24		4	0-8' Tan to gray fine to coarse grained sand with gravel	SP			0.2		M				No petro odor
MW-8-2 (8 feet)	48 24		8	8-13' Tan very fine grained sand	SP			373		M				Petro odor
MW-8-3 (12 feet)	48 30		12					340		W				Petro odor
MW-8-4 (15 feet)	36 36		16	13-15' Gray silt	ML			34		W				Slight petro odor
			16	EOB at 15 feet bgs. Monitoring well MW-8 was installed to 15 feet with a 10 foot screen.										

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

Signature:

Firm: **METCO**

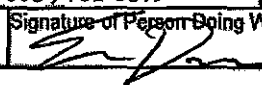
Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment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

Verification Only of Fill and Seal

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

1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot # <b>1/4 SW</b>	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	License/Permit/Monitoring # _____	
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>		
Subdivision Name _____			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		
Well ZIP Code <b>54487-</b>			City of Present Owner <b>Fond du Lac</b>		
Lot # _____			State <b>WI</b>		
Reason For Removal From Service <b>Sampling Complete</b>			ZIP Code <b>54935-</b>		
WI Unique Well # of Replacement Well _____			City of Present Owner <b>Fond du Lac</b>		

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>	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		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <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): <b>Geoprobe</b>		Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>12</b>	Casing Diameter (in.) _____	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, to what depth (feet)? _____	Depth to Water (feet) <b>8</b>	Required Method of Placing Sealing Material	
5. Material Used To Fill Well / Drillhole		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Bentonite Chips		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
From (ft.)    To (ft.)    Lbs		Sealing Materials	
Surface    12    18	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

6. Comments			
G-1 Abandoned by Geiss Soil and Samples LLC under METCO's supervision			
7. Supervision of Work			DNR Use Only
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Noted By _____
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 
		Date Signed <b>5/11/2017</b>	Comments _____

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

Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

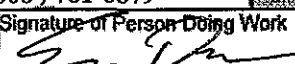
1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well _____		Facility Name <b>Luedtke Property</b>		Facility ID (FID or PWS) <b>735041230</b>	
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____		License/Permit/Monitoring # _____		Original Well Owner <b>Todd Luedtke</b>	
1/4 SW    1/4 SW or Gov't Lot #		Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		
Well Street Address <b>11 W. Wisconsin Ave.</b>				Present Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>				Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Subdivision Name				City of Present Owner <b>Fond du Lac</b>		State <b>WI</b>	ZIP Code <b>54935-</b>
Well ZIP Code <b>54487-</b>				City of Present Owner <b>Fond du Lac</b>			
Lot #				State <b>WI</b>			
ZIP Code <b>54935-</b>				ZIP Code <b>54935-</b>			

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well _____	<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>					
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring 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 type="checkbox"/> Water Well				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Was casing cut off below surface?		<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				Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>				Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>12</b>		Casing Diameter (in.)		Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) <b>8</b>		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
If yes, to what depth (feet)?				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole			
Bentonite Chips	From (ft.) <b>Surface</b>	To (ft.) <b>12</b>	Lbs <b>18</b>

**6. Comments**

G-2  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>		License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>	

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

Verification Only of Fill and Seal

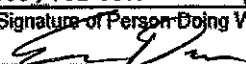
Route to:  
 Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>			
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____		Facility ID (FID or PWS) <b>735041230</b>			
License/Permit/Monitoring # _____		Original Well Owner <b>Todd Luedtke</b>		Present Well Owner <b>Todd Luedtke</b>			
Well Street Address <b>11 W. Wisconsin Ave.</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		City of Present Owner <b>Fond du Lac</b>		State <b>WI</b>	
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		ZIP Code <b>54935-</b>			
Subdivision Name _____		Lot # _____					

Reason For Removal From Service <b>Sampling Complete</b>		WI Unique Well # of Replacement Well _____		4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		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			
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 <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type:				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.) _____		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.) _____		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		Depth to Water (feet) <b>8</b>		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
If yes, to what depth (feet)? _____				Required Method of Placing Sealing Material			
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole			
Material	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**  
G-3  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>		License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>	

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

Verification Only of Fill and Seal

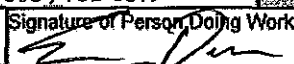
Route to:  
 Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
¼ 1/4 SW    ¼ SW or Gov't Lot #		Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>		Present Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Subdivision Name		Well ZIP Code <b>54487-</b>		City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>
		Lot #		ZIP Code <b>54935-</b>	

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well _____	4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		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) <b>5/8/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	<input type="checkbox"/> Dug	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
If yes, to what depth (feet)?		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

6. Material Used To Fill Well/ Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-4  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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


1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <b>Luedtke Property</b>	
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____		Facility ID (FID or PWS) <b>735041230</b>		License/Permit/Monitoring # _____	
¼ 1/4 SW    ¼ SW or Gov't Lot #		Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>		
Well Street Address <b>11 W. Wisconsin Ave.</b>		Well ZIP Code <b>54487-</b>		Present Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Subdivision Name _____		Lot # _____		City of Present Owner <b>Fond du Lac</b>		State <b>WI</b>	ZIP Code <b>54935-</b>

Reason For Removal From Service <b>Sampling Complete</b>		WI Unique Well # of Replacement Well _____		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>		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				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <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): <b>Geoprobe</b>				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.) <b>2</b>		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.) <b>8</b>		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		Depth to Water (feet) <b>8</b>		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
If yes, to what depth (feet)?				Required Method of Placing Sealing Material			

Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-5  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filing & Sealing <b>Eric Dahl/METCO</b>		License # _____	Date of Filing & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>	

**Well / Drillhole / Borehole Filling & Sealing**

Form 3300-005 (R 4/08)

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

Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

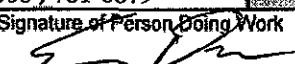
1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
<b>89 ° 43.78 ' W</b>		_____	License/Permit/Monitoring # _____		
¼ / ¼ SW or Gov't Lot #	¼ SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>		
Subdivision Name			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		
Well ZIP Code <b>54487-</b>			City of Present Owner <b>Fond du Lac</b>		
Lot #			State <b>WI</b>		
ZIP Code <b>54935-</b>			ZIP Code <b>54935-</b>		

Reason For Removal From Service		WI Unique Well # of Replacement Well	4. Pump, Liner, Screen, Casing & Sealing Material	
Sampling Complete		_____	Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>	Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Monitoring Well	If a Well Construction Report is available, please attach.		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well			Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole			Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:			Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	<input type="checkbox"/> Dug	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>			If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type:			If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock	Required Method of Placing Sealing Material	
Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.) _____	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.) _____	<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			Sealing Materials	
If yes, to what depth (feet)?		Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
			<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
			<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
			For Monitoring Wells and Monitoring Well Boreholes Only:	
			<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
			<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	Lbs
Bentonite Chips		Surface	10	15

6. Comments

G-6  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>



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

Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

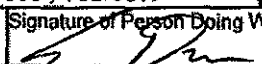
Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>			
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____		Facility ID (FID or PWS) <b>735041230</b>			
License/Permit/Monitoring # _____		Original Well Owner <b>Todd Luedtke</b>		Present Well Owner <b>Todd Luedtke</b>			
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>				City of Present Owner <b>Fond du Lac</b>			
Well City, Village or Town <b>Tomahawk</b>				State <b>WI</b>			
Subdivision Name _____				ZIP Code <b>54935-</b>			
Reason For Removal From Service <b>Sampling Complete</b>				WI Unique Well # of Replacement Well _____			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>	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		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	Required Method of Placing Sealing Material			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
If yes, to what depth (feet)? _____	_____	<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-7  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____	
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____		
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 		Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

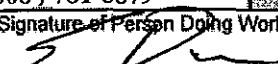
1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>			Present Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		
Subdivision Name			City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>	ZIP Code <b>54935-</b>

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well _____	4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		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) <b>5/8/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	Required Method of Placing Sealing Material	
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>
If yes, to what depth (feet)?		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
		<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-8  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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Verification Only of Fill and Seal

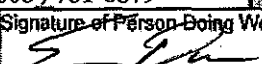
Route to:  
 Drinking Water     Watershed/Wastewater     Remediation/Redevelopment  
 Waste Management     Other: \_\_\_\_\_

<b>1. Well Location Information</b>			<b>2. Facility / Owner Information</b>		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
¼ ¼ SW    ¼ SW or Gov't Lot #		Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>		Well ZIP Code <b>54487-</b>		Present Well Owner <b>Todd Luedtke</b>	
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>	
Subdivision Name		Lot #		City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>
				ZIP Code <b>54935-</b>	

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well _____	<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>			
<b>3. Well / Drillhole / Borehole Information</b>		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) <b>5/8/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type: <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.) <b>10</b>	Casing Diameter (in.) _____	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input 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	Required Method of Placing Sealing Material			
If yes, to what depth (feet)?	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<b>5. Material Used To Fill Well / Drillhole</b>		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**  
G-9  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

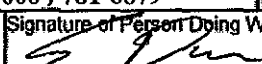
1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
¼ ¼ SW or Gov't Lot #	¼ SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>			Present Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>	
Subdivision Name		Lot #		City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>
Reason For Removal From Service <b>Sampling Complete</b>		WI Unique Well # of Replacement Well _____		ZIP Code <b>54935-</b>	

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>	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		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole relapped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) <b>2</b>	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) <b>8</b>	Required Method of Placing Sealing Material	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)?		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	

5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	Lbs
Bentonite Chips		Surface	10	15

**6. Comments**

G-10  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Locap # _____	Facility Name <b>Luedtke Property</b>
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>	Method Code (see instructions) _____		Facility ID (FID or PWS) <b>735041230</b>
1/4 SW    1/4 SW or Gov't Lot #	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>
Well ZIP Code <b>54487-</b>			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>
Subdivision Name _____			City of Present Owner <b>Fond du Lac</b>
Lot # _____			State <b>WI</b>
Reason For Removal From Service <b>Sampling Complete</b>			ZIP Code <b>54935-</b>
WI Unique Well # of Replacement Well _____			

**3. Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/8/2017</b>	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		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <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): <b>Geoprobe</b>		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	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	Depth to Water (feet) <b>8</b>	If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>		
Sealing Materials		
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:		
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**

G-11  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>	Telephone Number <b>(608) 781-8879</b>	Comments		
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

<b>1. Well Location Information</b>			<b>2. Facility / Owner Information</b>		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)	Facility ID (FID or PWS) <b>735041230</b>		
¼ / ¼ SW or Gov't Lot #	¼ SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>		Well ZIP Code <b>54487-</b>		Present Well Owner <b>Todd Luedtke</b>	
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>	
Subdivision Name		Lot #		City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>
				ZIP Code <b>54935-</b>	

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well	<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>			
<b>3. Well / Drillhole / Borehole Information</b>		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) <b>5/8/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	<input type="checkbox"/> Dug	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	<b>Required Method of Placing Sealing Material</b>			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>		
If yes, to what depth (feet)?		<b>Sealing Materials</b>			
		<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
		<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
		<b>For Monitoring Wells and Monitoring Well Boreholes Only:</b>			
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole			From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10		15	

**6. Comments**  
G-12  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/8/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>	Telephone Number <b>(608) 781-8879</b>	Comments		
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>			Present Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		
Subdivision Name			City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>	ZIP Code <b>54935-</b>

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well	4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		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) <b>5/9/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>		
If yes, to what depth (feet)?		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
		<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-13  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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<input type="checkbox"/> Verification Only of Fill and Seal	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Waste Management	<input type="checkbox"/> Watershed/Wastewater <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Remediation/Redevelopment
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1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well		Facility Name Luedtke Property		Facility ID (FID or PWS) 735041230	
Latitude / Longitude (Degrees and Minutes) 45 ° 28.25 ' N 89 ° 43.78 ' W		Method Code (see instructions)		License/Permit/Monitoring #		Original Well Owner Todd Luedtke	
1/4 SW or Gov't Lot #		Section 34	Township 35 N	Range 6	Present Well Owner Todd Luedtke		Mailing Address of Present Owner 426 Crowfoot Ave.
Well Street Address 11 W. Wisconsin Ave.				City of Present Owner Fond du Lac		State WI	ZIP Code 54935-
Well City, Village or Town Tomahawk		Well ZIP Code 54487-		Subdivision Name Lot #			

Reason For Removal From Service Sampling Complete		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material			
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) 5/9/2017		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		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	
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.) 10		Casing Diameter (in.)		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2		Casing Depth (ft.)		If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input 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) 8		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 type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity			

Sealing Materials		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole			From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10		15	

**6. Comments**  
G-14  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Eric Dahl/METCO		License #	Date of Filling & Sealing (mm/dd/yyyy) 5/9/2017	Date Received	Noted By
Street or Route 709 Gillette St, Ste. 3		Telephone Number (608) 781-8879		Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work 	Date Signed 5/11/2017	



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

<input type="checkbox"/> Verification Only of Fill and Seal	Route to: <input type="checkbox"/> Drinking Water <input type="checkbox"/> Watershed/Wastewater <input type="checkbox"/> Waste Management <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Remediation/Redevelopment
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1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) 45 ° 28.25 ' N 89 ° 43.78 ' W			Facility ID (FID or PWS) <b>735041230</b>		
Method Code (see instructions) _____			License/Permit/Monitoring # _____		
¼ ¼ SW or Gov't Lot #	¼ SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>		
Subdivision Name _____			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>		
Well ZIP Code <b>54487-</b>			City of Present Owner <b>Fond du Lac</b>		
Lot # _____			State <b>WI</b>		
Reason For Removal From Service <b>Sampling Complete</b>			ZIP Code <b>54935-</b>		
WI Unique Well # of Replacement Well _____			City of Present Owner <b>Fond du Lac</b>		

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <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): <b>Geoprobe</b>		Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, to what depth (feet)? _____	Depth to Water (feet) <b>8</b>	Required Method of Placing Sealing Material	
5. Material Used To Fill Well / Drillhole		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
	From (ft.)	To (ft.)	Lbs
<b>Bentonite Chips</b>	<b>Surface</b>	<b>10</b>	<b>15</b>
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**  
G-15  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments _____
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work <i>Eric Dahl</i>	
			Date Signed <b>5/11/2017</b>	

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

Verification Only of Fill and Seal

Route to:

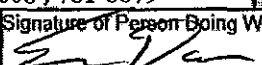
Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: \_\_\_\_\_

<b>1. Well Location Information</b>				<b>2. Facility / Owner Information</b>			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well _____		Facility Name <b>Luedtke Property</b>		Facility ID (FID or PWS) <b>735041230</b>	
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 'N</b> <b>89 ° 43.78 'W</b>		Method Code (see instructions) _____		License/Permit/Monitoring # _____		Original Well Owner <b>Todd Luedtke</b>	
¼ / ¼ SW or Gov't Lot # _____		Section <b>34</b>		Township <b>35 N</b>		Range <b>6</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>11 W. Wisconsin Ave.</b>				Present Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>				Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Subdivision Name _____				City of Present Owner <b>Fond du Lac</b>		State <b>WI</b>	
Reason For Removal From Service <b>Sampling Complete</b>				WI Unique Well # of Replacement Well _____		ZIP Code <b>54935-</b>	
<b>3. Well / Drillhole / Borehole Information</b>				<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>		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	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		if a Well Construction Report is available, please attach. _____		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	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.) _____		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.) _____		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	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) <b>8</b>		If yes, to what depth (feet)? _____		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<b>5. Material Used To Fill Well / Drillhole</b>				Required Method of Placing Sealing Material			
Bentonite Chips				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	
				From (ft.)		To (ft.)	
				Surface		10	
				Lbs		15	
<b>6. Comments</b>							
G-16 Abandoned by Geiss Soil and Samples LLC under METCO's supervision							
<b>7. Supervision of Work</b>				<b>DNR Use Only</b>			
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>		License # _____		Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>		Date Received _____	
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments _____		Noted By _____	
City <b>La Crosse</b>		State <b>WI</b>		ZIP Code <b>54603-</b>		Signature of Person Doing Work 	
						Date Signed <b>5/11/2017</b>	

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

Verification Only of Fill and Seal

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

1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well	Capacity	Facility Name <b>Luedtke Property</b>		Facility ID (FID or PWS) <b>735041230</b>	
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)		License/Permit/Monitoring #		Original Well Owner <b>Todd Luedtke</b>	
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner <b>Todd Luedtke</b>	
Well Street Address <b>11 W. Wisconsin Ave.</b>				Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Well City, Village or Town <b>Tomahawk</b>				Well ZIP Code <b>54487-</b>			
Subdivision Name				Lot #		City of Present Owner <b>Fond du Lac</b>	State <b>WI</b>
Reason For Removal From Service <b>Sampling Complete</b>				WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type: <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): <b>Geoprobe</b>		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>8</b>	Casing Diameter (in.)	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	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 checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, to what depth (feet)?	Depth to Water (feet) <b>7</b>	Required Method of Placing Sealing Material			
5. Material Used To Fill Well / Drillhole		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Bentonite Chips		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

Material	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	8	12

**6. Comments**  
G-17  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>	Telephone Number <b>(608) 781-8879</b>	Comments		
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Luedtke Property</b>
Latitude / Longitude (Degrees and Minutes) <b>45</b> ° <b>28.25</b> ' N	Method Code (see instructions) _____		Facility ID (FID or PWS) <b>735041230</b>
<b>89</b> ° <b>43.78</b> ' W	_____		License/Permit/Monitoring # _____
1/4 SW    1/4 SW or Gov't Lot #	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>
Well ZIP Code <b>54487-</b>			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>
Subdivision Name _____			City of Present Owner <b>Fond du Lac</b>
_____			State <b>WI</b>
_____			ZIP Code <b>54935-</b>

Reason For Removal From Service: **Sampling Complete**      WI Unique Well # of Replacement Well: \_\_\_\_\_


**3. Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <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): <b>Geoprobe</b>		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.) _____	Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.) _____	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	Depth to Water (feet) <b>8</b>	If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, to what depth (feet)? _____		Required Method of Placing Sealing Material
_____		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
_____		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>
_____		Sealing Materials
_____		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
_____		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "
_____		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips
_____		For Monitoring Wells and Monitoring Well Boreholes Only:
_____		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout
_____		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**

G-18  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal


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

<b>1. Well Location Information</b>			<b>2. Facility / Owner Information</b>		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well _____	Facap # _____	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions) _____	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>		Present Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Subdivision Name		Well ZIP Code <b>54487-</b>		City of Present Owner <b>Fond du Lac</b>	
		Lot #		State <b>WI</b>	
				ZIP Code <b>54935-</b>	

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well _____	<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>			
<b>3. Well / Drillhole / Borehole Information</b>		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) <b>5/9/2017</b>	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.	Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type: <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.) <b>10</b>		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Casing Diameter (in.)		Required Method of Placing Sealing Material			
Casing Depth (ft.)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
If yes, to what depth (feet)?		Sealing Materials			
Depth to Water (feet) <b>8</b>		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	Lbs
Bentonite Chips		Surface	10	15

**6. Comments**  
G-19  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License # _____	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received _____	Noted By _____
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments _____	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>			Present Well Owner <b>Todd Luedtke</b>		
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>			
Subdivision Name		Lot #		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>	
Reason For Removal From Service <b>Sampling Complete</b>		WI Unique Well # of Replacement Well		City of Present Owner <b>Fond du Lac</b>	
				State <b>WI</b>	
				ZIP Code <b>54935-</b>	

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	Required Method of Placing Sealing Material	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>	

5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	Lbs
Bentonite Chips		Surface	10	15

**6. Comments**  
G-20  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

Route to:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>
Latitude / Longitude (Degrees and Minutes) <b>45</b> ° <b>28.25</b> ' N <b>89</b> ° <b>43.78</b> ' W	Method Code (see instructions)		Facility ID (FID or PWS) <b>735041230</b>
1/4 SW    1/4 SW or Gov't Lot #	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b> <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>11 W. Wisconsin Ave.</b>			Original Well Owner <b>Todd Luedtke</b>
Well City, Village or Town <b>Tomahawk</b>			Present Well Owner <b>Todd Luedtke</b>
Subdivision Name			Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>
Reason For Removal From Service <b>Sampling Complete</b>			City of Present Owner <b>Fond du Lac</b>
WI Unique Well # of Replacement Well			State <b>WI</b>
Lot #			ZIP Code <b>54935-</b>

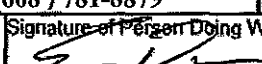
**3. Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>	<input type="checkbox"/> Dug	Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	Required Method of Placing Sealing Material
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>
		Sealing Materials
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips
		For Monitoring Wells and Monitoring Well Boreholes Only:
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**

G-21  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>	Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

1. Well Location Information			2. Facility / Owner Information		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) 45 ° 28.25 ' N 89 ° 43.78 ' W		Method Code (see instructions)	Facility ID (FID or PWS) <b>735041230</b>		
1/4 SW or Gov't Lot #	1/4 SW	Section 34	Township 35 N	Range 6 E	License/Permit/Monitoring #
Well Street Address 11 W. Wisconsin Ave.			Original Well Owner Todd Luedtke		
Well City, Village or Town Tomahawk			Present Well Owner Todd Luedtke		
Subdivision Name			Mailing Address of Present Owner 426 Crowfoot Ave.		
Reason For Removal From Service Sampling Complete			City of Present Owner Fond du Lac		
Well ZIP Code 54487-			State WI		
Lot #			ZIP Code 54935-		

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 5/9/2017	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		Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Construction Type: <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: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.)	Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 2	Casing Depth (ft.)	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
If yes, to what depth (feet)?	Depth to Water (feet) 8	Required Method of Placing Sealing Material	
		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity	
		Sealing Materials	
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

6. Comments  
G-22  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Eric Dahl/METCO	License #	Date of Filling & Sealing (mm/dd/yyyy) 5/9/2017	Date Received	Noted By
Street or Route 709 Gillette St, Ste. 3		Telephone Number (608) 781-8879	Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work	Date Signed 5/11/2017



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Verification Only of Fill and Seal

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

1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well	Map #	Facility Name <b>Luedtke Property</b>			
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)		Facility ID (FID or PWS) <b>735041230</b>			
¼ 1/4 SW	¼ SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring #
Well Street Address <b>11 W. Wisconsin Ave.</b>				Original Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>				Present Well Owner <b>Todd Luedtke</b>			
Subdivision Name				Well ZIP Code <b>54487-</b>			
Reason For Removal From Service <b>Sampling Complete</b>				Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
WI Unique Well # of Replacement Well				City of Present Owner <b>Fond du Lac</b>			
Lot #				State <b>WI</b>		ZIP Code <b>54935-</b>	

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>	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		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Construction Type:		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	Required Method of Placing Sealing Material			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
If yes, to what depth (feet)?		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
5. Material Used To Fill Well / Drillhole		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
		From (ft.)	To (ft.)	Lbs	
		Surface	10	15	

6. Comments					
G-23 Abandoned by Geiss Soil and Samples LLC under METCO's supervision					

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By	
Street or Route <b>709 Gillette St, Ste. 3</b>	Telephone Number <b>(608) 781-8879</b>		Comments		
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 		Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal


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

1. Well Location Information				2. Facility / Owner Information			
County <b>LINCOLN</b>		WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>			
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b> <b>89 ° 43.78 ' W</b>		Method Code (see instructions)		Facility ID (FID or PWS) <b>735041230</b>			
1/4 SW or Gov't Lot #		Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	<input checked="" type="checkbox"/> E <input type="checkbox"/> W		License/Permit/Monitoring #
Well Street Address <b>11 W. Wisconsin Ave.</b>				Original Well Owner <b>Todd Luedtke</b>			
Well City, Village or Town <b>Tomahawk</b>				Present Well Owner <b>Todd Luedtke</b>			
Subdivision Name				Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>			
Reason For Removal From Service <b>Sampling Complete</b>				City of Present Owner <b>Fond du Lac</b>			
WI Unique Well # of Replacement Well				State <b>WI</b>		ZIP Code <b>54935-</b>	

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>5/9/2017</b>		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				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Casing left in place?			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Was casing cut off below surface?	
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		<input type="checkbox"/> Dug		Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				Did material settle after 24 hours?			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>10</b>		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source?			
Lower Drillhole Diameter (in.) <b>2</b>		Casing Depth (ft.)		<input checked="" type="checkbox"/> Yes <input 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				Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Depth to Water (feet) <b>8</b>				<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>			
				Sealing Materials			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
				<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
				For Monitoring Wells and Monitoring Well Boreholes Only:			
				<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15

**6. Comments**  
G-24  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>		License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By
Street or Route <b>709 Gillette St, Ste. 3</b>		Telephone Number <b>(608) 781-8879</b>		Comments	
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 		Date Signed <b>5/11/2017</b>

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

Verification Only of Fill and Seal

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

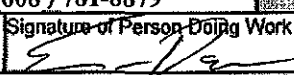
<b>1. Well Location Information</b>			<b>2. Facility / Owner Information</b>		
County <b>LINCOLN</b>	WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Luedtke Property</b>		
Latitude / Longitude (Degrees and Minutes) <b>45 ° 28.25 ' N</b>		Method Code (see instructions)	Facility ID (FID or PWS) <b>735041230</b>		
<b>89 ° 43.78 ' W</b>			License/Permit/Monitoring #		
1/4 SW or Gov't Lot #	1/4 SW	Section <b>34</b>	Township <b>35 N</b>	Range <b>6</b>	Original Well Owner <b>Todd Luedtke</b>
Well Street Address <b>11 W. Wisconsin Ave.</b>		Present Well Owner <b>Todd Luedtke</b>		Mailing Address of Present Owner <b>426 Crowfoot Ave.</b>	
Well City, Village or Town <b>Tomahawk</b>		Well ZIP Code <b>54487-</b>		City of Present Owner <b>Fond du Lac</b>	
Subdivision Name		Lot #		State <b>WI</b>	ZIP Code <b>54935-</b>

Reason For Removal From Service <b>Sampling Complete</b>	WI Unique Well # of Replacement Well	<b>4. Pump, Liner, Screen, Casing &amp; Sealing Material</b>			
<b>3. Well / Drillhole / Borehole Information</b>		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) <b>5/9/2017</b>	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.	Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <b>Geoprobe</b>		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A

Total Well Depth From Ground Surface (ft.) <b>10</b>	Casing Diameter (in.)	<b>Required Method of Placing Sealing Material</b>			
Lower Drillhole Diameter (in.) <b>2</b>	Casing Depth (ft.)	<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped		
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <b>8</b>	<input type="checkbox"/> Screened & Poured (Bentonite Chips)	<input checked="" type="checkbox"/> Other (Explain): <b>Gravity</b>		
If yes, to what depth (feet)?		<b>Sealing Materials</b>			
		<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
		<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
		<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
		<b>For Monitoring Wells and Monitoring Well Boreholes Only:</b>			
		<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
		<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

6. Material Used To Fill Well / Drillhole			From (ft.)	To (ft.)	Lbs
Bentonite Chips	Surface	10	15		

**6. Comments**  
G-25  
Abandoned by Geiss Soil and Samples LLC under METCO's supervision

<b>7. Supervision of Work</b>			<b>DNR Use Only</b>		
Name of Person or Firm Doing Filling & Sealing <b>Eric Dahl/METCO</b>	License #	Date of Filling & Sealing (mm/dd/yyyy) <b>5/9/2017</b>	Date Received	Noted By	
Street or Route <b>709 Gillette St, Ste. 3</b>	Telephone Number <b>(608) 781-8879</b>	Comments			
City <b>La Crosse</b>	State <b>WI</b>	ZIP Code <b>54603-</b>	Signature of Person Doing Work 	Date Signed <b>5/11/2017</b>	

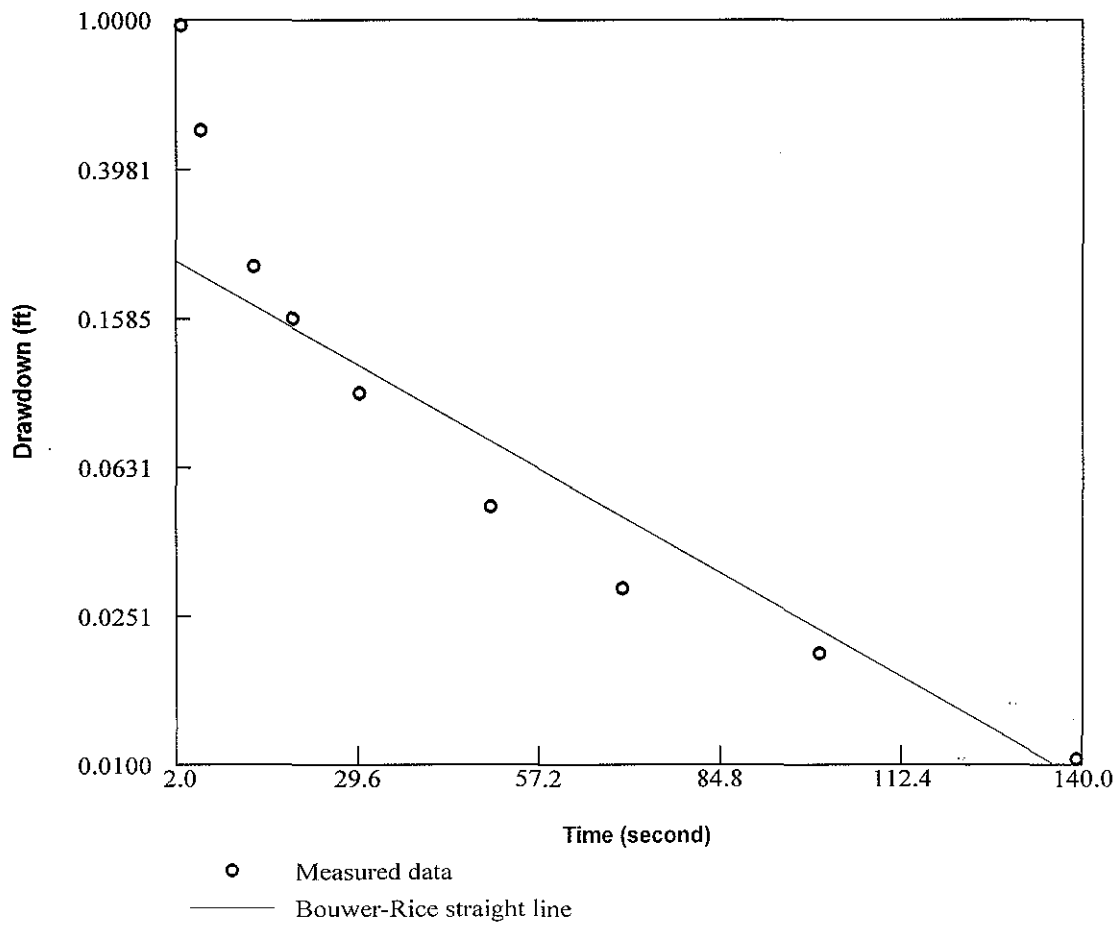
Site Investigation Report - METCO

Luedtke Property

## APPENDIX D/ WASTE DISPOSAL DOCUMENTATION



**Site Investigation Report - METCO  
Luedtke Property  
APPENDIX E/ OTHER DOCUMENTATION**



**Aquifer Parameters by the Bouwer and Rice Slug Test**

Hydraulic Conductivity (ft/s):	2.32e-005
Transmissivity (sq ft/s):	1.92e-004

**Luedtke Property MW-1 Slug Out**

Luedtke Property  
 MW-1 (Slug Out)

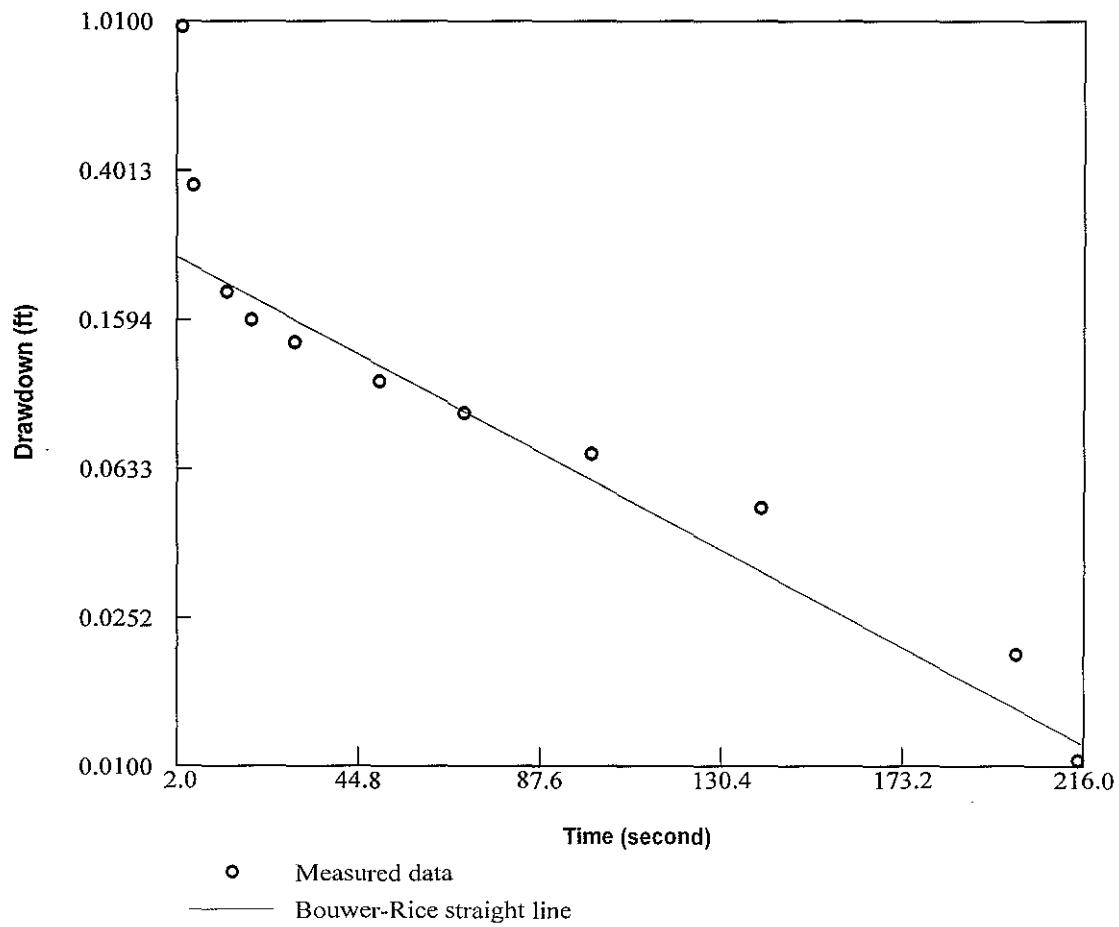
Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
1/29/2018 14:56	41.30605	49.304	0	0.01605
1/29/2018 14:56	40.28953	49.304	2	1.00047
1/29/2018 14:56	40.61133	49.304	4	0.67867
1/29/2018 14:56	40.77975	49.316	6	0.51025
1/29/2018 14:56	40.89403	49.316	8	0.39597
1/29/2018 14:56	40.96921	49.328	10	0.32079
1/29/2018 14:56	41.02636	49.328	12	0.26364
1/29/2018 14:56	41.06545	49.34	14	0.22455
1/29/2018 14:56	41.09252	49.34	16	0.19748
1/29/2018 14:56	41.11056	49.352	18	0.17944
1/29/2018 14:56	41.13162	49.352	20	0.15838
1/29/2018 14:56	41.14966	49.364	22	0.14034
1/29/2018 14:56	41.15868	49.364	24	0.13132
1/29/2018 14:56	41.16771	49.376	26	0.12229
1/29/2018 14:56	41.17974	49.376	28	0.11026
1/29/2018 14:56	41.18876	49.388	30	0.10124
1/29/2018 14:56	41.18876	49.388	32	0.10124
1/29/2018 14:56	41.19778	49.4	34	0.09222
1/29/2018 14:56	41.2068	49.4	36	0.0832
1/29/2018 14:56	41.2068	49.418	38	0.0832
1/29/2018 14:56	41.21582	49.418	40	0.07418
1/29/2018 14:56	41.21582	49.418	42	0.07418
1/29/2018 14:56	41.22485	49.43	44	0.06515
1/29/2018 14:56	41.22485	49.43	46	0.06515
1/29/2018 14:56	41.22485	49.442	48	0.06515
1/29/2018 14:57	41.23688	49.442	50	0.05312
1/29/2018 14:57	41.23688	49.442	52	0.05312
1/29/2018 14:57	41.23688	49.454	54	0.05312
1/29/2018 14:57	41.2459	49.454	56	0.0441
1/29/2018 14:57	41.2459	49.454	58	0.0441
1/29/2018 14:57	41.2459	49.466	60	0.0441
1/29/2018 14:57	41.2459	49.466	62	0.0441
1/29/2018 14:57	41.25492	49.466	64	0.03508
1/29/2018 14:57	41.25492	49.466	66	0.03508
1/29/2018 14:57	41.25793	49.478	68	0.03207
1/29/2018 14:57	41.25793	49.478	70	0.03207
1/29/2018 14:57	41.25793	49.478	72	0.03207
1/29/2018 14:57	41.25793	49.478	74	0.03207
1/29/2018 14:57	41.26394	49.49	76	0.02606
1/29/2018 14:57	41.26394	49.49	78	0.02606
1/29/2018 14:57	41.26394	49.49	80	0.02606
1/29/2018 14:57	41.26394	49.49	82	0.02606
1/29/2018 14:57	41.26394	49.502	84	0.02606
1/29/2018 14:57	41.26394	49.502	86	0.02606
1/29/2018 14:57	41.26394	49.502	88	0.02606
1/29/2018 14:57	41.26394	49.502	90	0.02606



Luedtke Property  
MW-1 (Slug Out)

1/29/2018 14:57	41.26394	49.502	92	0.02606
1/29/2018 14:57	41.26394	49.502	94	0.02606
1/29/2018 14:57	41.26394	49.514	96	0.02606
1/29/2018 14:57	41.27297	49.514	98	0.01703
1/29/2018 14:57	41.26394	49.514	100	0.02606
1/29/2018 14:57	41.27297	49.514	102	0.01703
1/29/2018 14:57	41.27297	49.514	104	0.01703
1/29/2018 14:57	41.27297	49.526	106	0.01703
1/29/2018 14:57	41.27297	49.526	108	0.01703
1/29/2018 14:58	41.27297	49.526	110	0.01703
1/29/2018 14:58	41.27297	49.526	112	0.01703
1/29/2018 14:58	41.27297	49.526	114	0.01703
1/29/2018 14:58	41.27297	49.526	116	0.01703
1/29/2018 14:58	41.27297	49.526	118	0.01703
1/29/2018 14:58	41.27297	49.544	120	0.01703
1/29/2018 14:58	41.28199	49.544	122	0.00801
1/29/2018 14:58	41.28199	49.544	124	0.00801
1/29/2018 14:58	41.27297	49.544	126	0.01703
1/29/2018 14:58	41.28199	49.544	128	0.00801
1/29/2018 14:58	41.28199	49.556	130	0.00801
1/29/2018 14:58	41.28199	49.556	132	0.00801
1/29/2018 14:58	41.28199	49.556	134	0.00801
1/29/2018 14:58	41.28199	49.556	136	0.00801
1/29/2018 14:58	41.28199	49.556	138	0.00801
1/29/2018 14:58	41.28199	49.556	140	0.00801
1/29/2018 14:58	41.28199	49.568	142	0.00801
1/29/2018 14:58	41.28199	49.568	144	0.00801
1/29/2018 14:58	41.28199	49.568	146	0.00801
1/29/2018 14:58	41.28199	49.568	148	0.00801
1/29/2018 14:58	41.29402	49.568	150	0.00402
1/29/2018 14:58	41.28199	49.568	152	0.00801
1/29/2018 14:58	41.28199	49.568	154	0.00801
1/29/2018 14:58	41.28199	49.568	156	0.00801
1/29/2018 14:58	41.288	49.58	158	0.002
1/29/2018 14:58	41.29703	49.58	160	0.00703

END OF DATA FILE OF DATALOGGER FOR WINDOWS



**Aquifer Parameters by the Bouwer and Rice Slug Test**

Hydraulic Conductivity (ft/s):	1.49e-005
Transmissivity (sq ft/s):	1.13e-004

**Luedtke Property MW-8 Slug Out**

Luedtke Property  
MW-8 (Slug Out)

Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
1/29/2018 15:34	40.08503	49.046	0	0.06503
1/29/2018 15:34	39.00837	49.046	2	1.01163
1/29/2018 15:34	39.36926	49.046	4	0.65074
1/29/2018 15:34	39.65497	49.046	6	0.36503
1/29/2018 15:34	39.76624	49.058	8	0.25376
1/29/2018 15:34	39.79331	49.058	10	0.22669
1/29/2018 15:34	39.82338	49.058	12	0.19662
1/29/2018 15:34	39.82639	49.076	14	0.19361
1/29/2018 15:34	39.84744	49.076	16	0.17256
1/29/2018 15:34	39.84744	49.076	18	0.17256
1/29/2018 15:34	39.85646	49.076	20	0.16354
1/29/2018 15:34	39.86549	49.076	22	0.15451
1/29/2018 15:34	39.88052	49.088	24	0.13948
1/29/2018 15:34	39.88052	49.088	26	0.13948
1/29/2018 15:34	39.88052	49.088	28	0.13948
1/29/2018 15:34	39.88052	49.088	30	0.13948
1/29/2018 15:34	39.88955	49.088	32	0.13045
1/29/2018 15:35	39.88955	49.088	34	0.13045
1/29/2018 15:35	39.88955	49.1	36	0.13045
1/29/2018 15:35	39.88955	49.1	38	0.13045
1/29/2018 15:35	39.89857	49.1	40	0.12143
1/29/2018 15:35	39.89857	49.1	42	0.12143
1/29/2018 15:35	39.90458	49.112	44	0.11542
1/29/2018 15:35	39.90458	49.112	46	0.11542
1/29/2018 15:35	39.90458	49.112	48	0.11542
1/29/2018 15:35	39.9136	49.124	50	0.1064
1/29/2018 15:35	39.9136	49.124	52	0.1064
1/29/2018 15:35	39.9136	49.124	54	0.1064
1/29/2018 15:35	39.9136	49.136	56	0.1064
1/29/2018 15:35	39.9136	49.136	58	0.1064
1/29/2018 15:35	39.9136	49.148	60	0.1064
1/29/2018 15:35	39.92864	49.16	62	0.09136
1/29/2018 15:35	39.92864	49.16	64	0.09136
1/29/2018 15:35	39.92263	49.172	66	0.09737
1/29/2018 15:35	39.92263	49.172	68	0.09737
1/29/2018 15:35	39.93165	49.19	70	0.08835
1/29/2018 15:35	39.93165	49.202	72	0.08835
1/29/2018 15:35	39.93165	49.202	74	0.08835
1/29/2018 15:35	39.93165	49.202	76	0.08835
1/29/2018 15:35	39.93165	49.214	78	0.08835
1/29/2018 15:35	39.93165	49.226	80	0.08835
1/29/2018 15:35	39.93165	49.226	82	0.08835
1/29/2018 15:35	39.94067	49.226	84	0.07933
1/29/2018 15:35	39.94067	49.238	86	0.07933
1/29/2018 15:35	39.94067	49.25	88	0.07933
1/29/2018 15:35	39.94067	49.25	90	0.07933

Luedtke Property  
 MW-8 (Slug Out)

1/29/2018 15:35	39.94067	49.25	92	0.07933
1/29/2018 15:36	39.95571	49.262	94	0.06429
1/29/2018 15:36	39.95571	49.262	96	0.06429
1/29/2018 15:36	39.94969	49.274	98	0.07031
1/29/2018 15:36	39.94969	49.274	100	0.07031
1/29/2018 15:36	39.94969	49.286	102	0.07031
1/29/2018 15:36	39.94969	49.286	104	0.07031
1/29/2018 15:36	39.96172	49.286	106	0.05828
1/29/2018 15:36	39.96473	49.304	108	0.05527
1/29/2018 15:36	39.95571	49.304	110	0.06429
1/29/2018 15:36	39.96473	49.304	112	0.05527
1/29/2018 15:36	39.96172	49.316	114	0.05828
1/29/2018 15:36	39.96172	49.316	116	0.05828
1/29/2018 15:36	39.96172	49.328	118	0.05828
1/29/2018 15:36	39.97075	49.328	120	0.04925
1/29/2018 15:36	39.96172	49.328	122	0.05828
1/29/2018 15:36	39.96172	49.34	124	0.05828
1/29/2018 15:36	39.96172	49.34	126	0.05828
1/29/2018 15:36	39.96172	49.34	128	0.05828
1/29/2018 15:36	39.96172	49.352	130	0.05828
1/29/2018 15:36	39.97075	49.352	132	0.04925
1/29/2018 15:36	39.97075	49.352	134	0.04925
1/29/2018 15:36	39.97075	49.364	136	0.04925
1/29/2018 15:36	39.97075	49.364	138	0.04925
1/29/2018 15:36	39.97075	49.364	140	0.04925
1/29/2018 15:36	39.97075	49.364	142	0.04925
1/29/2018 15:36	39.97075	49.376	144	0.04925
1/29/2018 15:36	39.97977	49.376	146	0.04023
1/29/2018 15:36	39.97977	49.388	148	0.04023
1/29/2018 15:36	39.97977	49.388	150	0.04023
1/29/2018 15:36	39.97977	49.388	152	0.04023
1/29/2018 15:37	39.97977	49.388	154	0.04023
1/29/2018 15:37	39.97977	49.4	156	0.04023
1/29/2018 15:37	39.98879	49.4	158	0.03121
1/29/2018 15:37	39.98879	49.4	160	0.03121
1/29/2018 15:37	39.98879	49.418	162	0.03121
1/29/2018 15:37	39.98879	49.418	164	0.03121
1/29/2018 15:37	39.98879	49.418	166	0.03121
1/29/2018 15:37	39.98879	49.418	168	0.03121
1/29/2018 15:37	39.98879	49.43	170	0.03121
1/29/2018 15:37	39.98879	49.43	172	0.03121
1/29/2018 15:37	39.98879	49.43	174	0.03121
1/29/2018 15:37	39.98879	49.43	176	0.03121
1/29/2018 15:37	39.98879	49.43	178	0.03121
1/29/2018 15:37	39.98879	49.442	180	0.03121
1/29/2018 15:37	39.99781	49.442	182	0.02219
1/29/2018 15:37	39.98879	49.442	184	0.03121

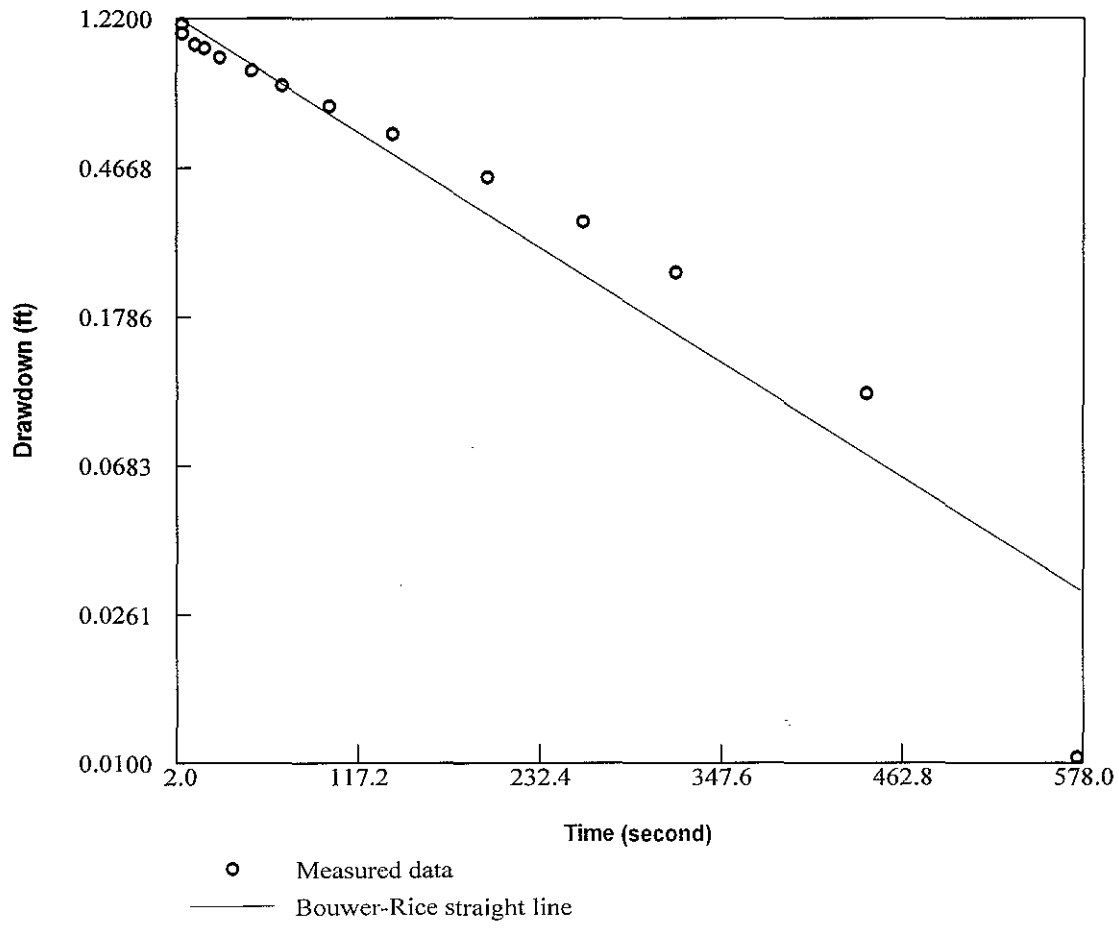
Luedtke Property  
MW-8 (Slug Out)

1/29/2018 15:37	39.99781	49.442	186	0.02219
1/29/2018 15:37	39.99781	49.442	188	0.02219
1/29/2018 15:37	39.99781	49.442	190	0.02219
1/29/2018 15:37	39.99781	49.442	192	0.02219
1/29/2018 15:37	39.99781	49.442	194	0.02219
1/29/2018 15:37	39.98879	49.442	196	0.03121
1/29/2018 15:37	39.99781	49.442	198	0.02219
1/29/2018 15:37	39.99781	49.442	200	0.02219
1/29/2018 15:37	39.99781	49.442	202	0.02219
1/29/2018 15:37	39.99781	49.442	204	0.02219
1/29/2018 15:37	40.00684	49.442	206	0.01316
1/29/2018 15:37	39.99781	49.442	208	0.02219
1/29/2018 15:37	39.99781	49.442	210	0.02219
1/29/2018 15:37	39.99781	49.442	212	0.02219
1/29/2018 15:38	39.99781	49.442	214	0.02219
1/29/2018 15:38	40.00684	49.442	216	0.01316
1/29/2018 15:38	40.00684	49.442	218	0.01316
1/29/2018 15:38	40.00684	49.442	220	0.01316
1/29/2018 15:38	40.00684	49.442	222	0.01316
1/29/2018 15:38	40.00684	49.442	224	0.01316
1/29/2018 15:38	40.00684	49.442	226	0.01316
1/29/2018 15:38	40.00684	49.442	228	0.01316
1/29/2018 15:38	40.00684	49.442	230	0.01316
1/29/2018 15:38	40.00684	49.442	232	0.01316
1/29/2018 15:38	40.00684	49.442	234	0.01316
1/29/2018 15:38	40.00684	49.442	236	0.01316
1/29/2018 15:38	40.00684	49.442	238	0.01316
1/29/2018 15:38	40.00684	49.442	240	0.01316
1/29/2018 15:38	40.00684	49.442	242	0.01316
1/29/2018 15:38	40.00684	49.442	244	0.01316
1/29/2018 15:38	40.00684	49.442	246	0.01316
1/29/2018 15:38	40.00684	49.442	248	0.01316
1/29/2018 15:38	40.01886	49.442	250	0.00114
1/29/2018 15:38	40.00684	49.442	252	0.01316
1/29/2018 15:38	40.00684	49.442	254	0.01316
1/29/2018 15:38	40.00684	49.442	256	0.01316
1/29/2018 15:38	40.00684	49.442	258	0.01316
1/29/2018 15:38	40.01886	49.442	260	0.00114
1/29/2018 15:38	40.00684	49.442	262	0.01316
1/29/2018 15:38	40.00684	49.442	264	0.01316
1/29/2018 15:38	40.00684	49.442	266	0.01316
1/29/2018 15:38	40.00684	49.442	268	0.01316
1/29/2018 15:38	40.01886	49.442	270	0.00114
1/29/2018 15:38	40.01886	49.442	272	0.00114
1/29/2018 15:39	40.00684	49.442	274	0.01316
1/29/2018 15:39	40.01886	49.442	276	0.00114
1/29/2018 15:39	40.01886	49.442	278	0.00114

Luedtke Property  
MW-8 (Slug Out)

1/29/2018 15:39	40.01886	49.442	280	0.00114
1/29/2018 15:39	40.01886	49.442	282	0.00114
1/29/2018 15:39	40.01886	49.442	284	0.00114
1/29/2018 15:39	40.01886	49.442	286	0.00114
1/29/2018 15:39	40.01886	49.442	288	0.00114
1/29/2018 15:39	40.01886	49.442	290	0.00114
1/29/2018 15:39	40.01886	49.442	292	0.00114
1/29/2018 15:39	40.01886	49.442	294	0.00114
1/29/2018 15:39	40.01886	49.442	296	0.00114
1/29/2018 15:39	40.01886	49.454	298	0.00114
1/29/2018 15:39	40.01886	49.454	300	0.00114
1/29/2018 15:39	40.02789	49.454	302	0.00789

END OF DATA FILE OF DATALOGGER FOR WINDOWS



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	1.22e-005
Transmissivity (sq ft/s):	2.60e-004

**Luedtke Property PZ-1 Slug Out**

Luedtke Property  
PZ-1 (Slug Out)

Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
1/29/2018 13:53	54.11472	53.324	0	0.24472
1/29/2018 13:54	52.6501	53.324	2	1.2199
1/29/2018 13:54	52.75536	53.324	4	1.11464
1/29/2018 13:54	52.76438	53.324	6	1.10562
1/29/2018 13:54	52.78243	53.324	8	1.08757
1/29/2018 13:54	52.80348	53.324	10	1.06652
1/29/2018 13:54	52.8125	53.324	12	1.0575
1/29/2018 13:54	52.83054	53.324	14	1.03946
1/29/2018 13:54	52.83957	53.324	16	1.03043
1/29/2018 13:54	52.8516	53.324	18	1.0184
1/29/2018 13:54	52.86062	53.324	20	1.00938
1/29/2018 13:54	52.86964	53.324	22	1.00036
1/29/2018 13:54	52.87866	53.324	24	0.99134
1/29/2018 13:54	52.88769	53.324	26	0.98231
1/29/2018 13:54	52.89671	53.324	28	0.97329
1/29/2018 13:54	52.91776	53.324	30	0.95224
1/29/2018 13:54	52.91776	53.324	32	0.95224
1/29/2018 13:54	52.92678	53.324	34	0.94322
1/29/2018 13:54	52.9358	53.324	36	0.9342
1/29/2018 13:54	52.94483	53.324	38	0.92517
1/29/2018 13:54	52.95385	53.324	40	0.91615
1/29/2018 13:54	52.95385	53.324	42	0.91615
1/29/2018 13:54	52.9749	53.324	44	0.8951
1/29/2018 13:54	52.9749	53.324	46	0.8951
1/29/2018 13:54	52.98392	53.324	48	0.88608
1/29/2018 13:54	52.99295	53.324	50	0.87705
1/29/2018 13:54	53.00197	53.324	52	0.86803
1/29/2018 13:54	53.01099	53.324	54	0.85901
1/29/2018 13:54	53.02001	53.324	56	0.84999
1/29/2018 13:54	53.03204	53.324	58	0.83796
1/29/2018 13:54	53.03204	53.336	60	0.83796
1/29/2018 13:55	53.04107	53.324	62	0.82893
1/29/2018 13:55	53.05009	53.324	64	0.81991
1/29/2018 13:55	53.05911	53.324	66	0.81089
1/29/2018 13:55	53.05911	53.324	68	0.81089
1/29/2018 13:55	53.06813	53.324	70	0.80187
1/29/2018 13:55	53.07715	53.324	72	0.79285
1/29/2018 13:55	53.08918	53.336	74	0.78082
1/29/2018 13:55	53.09821	53.324	76	0.77179
1/29/2018 13:55	53.09821	53.324	78	0.77179
1/29/2018 13:55	53.10723	53.324	80	0.76277
1/29/2018 13:55	53.11625	53.324	82	0.75375
1/29/2018 13:55	53.11625	53.324	84	0.75375
1/29/2018 13:55	53.12527	53.324	86	0.74473
1/29/2018 13:55	53.1343	53.324	88	0.7357
1/29/2018 13:55	53.1343	53.336	90	0.7357



Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 13:55	53.14633	53.336	92	0.72367
1/29/2018 13:55	53.14633	53.324	94	0.72367
1/29/2018 13:55	53.16437	53.336	96	0.70563
1/29/2018 13:55	53.16437	53.324	98	0.70563
1/29/2018 13:55	53.17339	53.324	100	0.69661
1/29/2018 13:55	53.17339	53.324	102	0.69661
1/29/2018 13:55	53.18241	53.324	104	0.68759
1/29/2018 13:55	53.19144	53.324	106	0.67856
1/29/2018 13:55	53.19144	53.336	108	0.67856
1/29/2018 13:55	53.20347	53.324	110	0.66653
1/29/2018 13:55	53.21249	53.324	112	0.65751
1/29/2018 13:55	53.21249	53.324	114	0.65751
1/29/2018 13:55	53.22151	53.324	116	0.64849
1/29/2018 13:55	53.23053	53.336	118	0.63947
1/29/2018 13:55	53.23956	53.336	120	0.63044
1/29/2018 13:56	53.23956	53.336	122	0.63044
1/29/2018 13:56	53.23956	53.324	124	0.63044
1/29/2018 13:56	53.24858	53.324	126	0.62142
1/29/2018 13:56	53.24858	53.324	128	0.62142
1/29/2018 13:56	53.2576	53.324	130	0.6124
1/29/2018 13:56	53.26963	53.324	132	0.60037
1/29/2018 13:56	53.26963	53.336	134	0.60037
1/29/2018 13:56	53.27865	53.336	136	0.59135
1/29/2018 13:56	53.28767	53.324	138	0.58233
1/29/2018 13:56	53.28767	53.324	140	0.58233
1/29/2018 13:56	53.28767	53.324	142	0.58233
1/29/2018 13:56	53.2967	53.324	144	0.5733
1/29/2018 13:56	53.2967	53.324	146	0.5733
1/29/2018 13:56	53.30572	53.336	148	0.56428
1/29/2018 13:56	53.31474	53.324	150	0.55526
1/29/2018 13:56	53.32677	53.324	152	0.54323
1/29/2018 13:56	53.32677	53.336	154	0.54323
1/29/2018 13:56	53.32677	53.324	156	0.54323
1/29/2018 13:56	53.33579	53.324	158	0.53421
1/29/2018 13:56	53.33579	53.324	160	0.53421
1/29/2018 13:56	53.34482	53.324	162	0.52518
1/29/2018 13:56	53.35384	53.324	164	0.51616
1/29/2018 13:56	53.35384	53.324	166	0.51616
1/29/2018 13:56	53.36286	53.324	168	0.50714
1/29/2018 13:56	53.36286	53.324	170	0.50714
1/29/2018 13:56	53.36286	53.324	172	0.50714
1/29/2018 13:56	53.37188	53.324	174	0.49812
1/29/2018 13:56	53.38391	53.324	176	0.48609
1/29/2018 13:56	53.38391	53.336	178	0.48609
1/29/2018 13:56	53.38391	53.324	180	0.48609
1/29/2018 13:57	53.39294	53.324	182	0.47706
1/29/2018 13:57	53.39294	53.324	184	0.47706

Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 13:57	53.40196	53.324	186	0.46804
1/29/2018 13:57	53.40196	53.324	188	0.46804
1/29/2018 13:57	53.40196	53.324	190	0.46804
1/29/2018 13:57	53.41098	53.336	192	0.45902
1/29/2018 13:57	53.42	53.324	194	0.45
1/29/2018 13:57	53.42	53.324	196	0.45
1/29/2018 13:57	53.42902	53.336	198	0.44098
1/29/2018 13:57	53.42902	53.324	200	0.44098
1/29/2018 13:57	53.42902	53.324	202	0.44098
1/29/2018 13:57	53.44105	53.324	204	0.42895
1/29/2018 13:57	53.44105	53.324	206	0.42895
1/29/2018 13:57	53.45008	53.324	208	0.41992
1/29/2018 13:57	53.45008	53.324	210	0.41992
1/29/2018 13:57	53.45008	53.324	212	0.41992
1/29/2018 13:57	53.45008	53.324	214	0.41992
1/29/2018 13:57	53.4591	53.324	216	0.4109
1/29/2018 13:57	53.46812	53.324	218	0.40188
1/29/2018 13:57	53.46812	53.324	220	0.40188
1/29/2018 13:57	53.46812	53.324	222	0.40188
1/29/2018 13:57	53.47714	53.324	224	0.39286
1/29/2018 13:57	53.47714	53.324	226	0.39286
1/29/2018 13:57	53.48617	53.324	228	0.38383
1/29/2018 13:57	53.48617	53.324	230	0.38383
1/29/2018 13:57	53.49519	53.324	232	0.37481
1/29/2018 13:57	53.49519	53.336	234	0.37481
1/29/2018 13:57	53.49519	53.324	236	0.37481
1/29/2018 13:57	53.50722	53.324	238	0.36278
1/29/2018 13:57	53.50722	53.324	240	0.36278
1/29/2018 13:58	53.51624	53.336	242	0.35376
1/29/2018 13:58	53.51624	53.324	244	0.35376
1/29/2018 13:58	53.51624	53.324	246	0.35376
1/29/2018 13:58	53.52526	53.324	248	0.34474
1/29/2018 13:58	53.52526	53.324	250	0.34474
1/29/2018 13:58	53.52526	53.324	252	0.34474
1/29/2018 13:58	53.53428	53.324	254	0.33572
1/29/2018 13:58	53.53428	53.324	256	0.33572
1/29/2018 13:58	53.53428	53.324	258	0.33572
1/29/2018 13:58	53.54331	53.324	260	0.32669
1/29/2018 13:58	53.54331	53.324	262	0.32669
1/29/2018 13:58	53.54331	53.324	264	0.32669
1/29/2018 13:58	53.55233	53.324	266	0.31767
1/29/2018 13:58	53.55233	53.324	268	0.31767
1/29/2018 13:58	53.55233	53.324	270	0.31767
1/29/2018 13:58	53.56436	53.324	272	0.30564
1/29/2018 13:58	53.56436	53.324	274	0.30564
1/29/2018 13:58	53.56436	53.324	276	0.30564
1/29/2018 13:58	53.56436	53.324	278	0.30564

Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 13:58	53.57338	53.324	280	0.29662
1/29/2018 13:58	53.57338	53.324	282	0.29662
1/29/2018 13:58	53.57338	53.324	284	0.29662
1/29/2018 13:58	53.5824	53.324	286	0.2876
1/29/2018 13:58	53.5824	53.324	288	0.2876
1/29/2018 13:58	53.59143	53.324	290	0.27857
1/29/2018 13:58	53.59143	53.324	292	0.27857
1/29/2018 13:58	53.59143	53.324	294	0.27857
1/29/2018 13:58	53.60045	53.324	296	0.26955
1/29/2018 13:58	53.60045	53.324	298	0.26955
1/29/2018 13:58	53.60045	53.324	300	0.26955
1/29/2018 13:59	53.60045	53.324	302	0.26955
1/29/2018 13:59	53.60947	53.324	304	0.26053
1/29/2018 13:59	53.60947	53.324	306	0.26053
1/29/2018 13:59	53.60947	53.336	308	0.26053
1/29/2018 13:59	53.60947	53.324	310	0.26053
1/29/2018 13:59	53.6215	53.324	312	0.2485
1/29/2018 13:59	53.6215	53.324	314	0.2485
1/29/2018 13:59	53.6215	53.324	316	0.2485
1/29/2018 13:59	53.63052	53.324	318	0.23948
1/29/2018 13:59	53.63052	53.324	320	0.23948
1/29/2018 13:59	53.63052	53.324	322	0.23948
1/29/2018 13:59	53.63052	53.324	324	0.23948
1/29/2018 13:59	53.63955	53.324	326	0.23045
1/29/2018 13:59	53.63955	53.324	328	0.23045
1/29/2018 13:59	53.63955	53.324	330	0.23045
1/29/2018 13:59	53.64857	53.324	332	0.22143
1/29/2018 13:59	53.64857	53.324	334	0.22143
1/29/2018 13:59	53.65759	53.324	336	0.21241
1/29/2018 13:59	53.65759	53.324	338	0.21241
1/29/2018 13:59	53.65759	53.324	340	0.21241
1/29/2018 13:59	53.65759	53.324	342	0.21241
1/29/2018 13:59	53.65759	53.324	344	0.21241
1/29/2018 13:59	53.66661	53.324	346	0.20339
1/29/2018 13:59	53.66661	53.324	348	0.20339
1/29/2018 13:59	53.66661	53.324	350	0.20339
1/29/2018 13:59	53.66661	53.324	352	0.20339
1/29/2018 13:59	53.67563	53.324	354	0.19437
1/29/2018 13:59	53.67563	53.324	356	0.19437
1/29/2018 13:59	53.67563	53.324	358	0.19437
1/29/2018 13:59	53.68766	53.324	360	0.18234
1/29/2018 14:00	53.68766	53.324	362	0.18234
1/29/2018 14:00	53.68766	53.324	364	0.18234
1/29/2018 14:00	53.68766	53.324	366	0.18234
1/29/2018 14:00	53.68766	53.324	368	0.18234
1/29/2018 14:00	53.69669	53.324	370	0.17331
1/29/2018 14:00	53.69669	53.324	372	0.17331

Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 14:00	53.69669	53.324	374	0.17331
1/29/2018 14:00	53.69669	53.324	376	0.17331
1/29/2018 14:00	53.70571	53.324	378	0.16429
1/29/2018 14:00	53.69669	53.324	380	0.17331
1/29/2018 14:00	53.70571	53.336	382	0.16429
1/29/2018 14:00	53.70571	53.336	384	0.16429
1/29/2018 14:00	53.70571	53.324	386	0.16429
1/29/2018 14:00	53.70571	53.324	388	0.16429
1/29/2018 14:00	53.70571	53.336	390	0.16429
1/29/2018 14:00	53.71473	53.336	392	0.15527
1/29/2018 14:00	53.71473	53.336	394	0.15527
1/29/2018 14:00	53.71473	53.336	396	0.15527
1/29/2018 14:00	53.71473	53.336	398	0.15527
1/29/2018 14:00	53.71473	53.324	400	0.15527
1/29/2018 14:00	53.71473	53.336	402	0.15527
1/29/2018 14:00	53.71473	53.336	404	0.15527
1/29/2018 14:00	53.72375	53.336	406	0.14625
1/29/2018 14:00	53.73278	53.336	408	0.13722
1/29/2018 14:00	53.73278	53.336	410	0.13722
1/29/2018 14:00	53.73278	53.336	412	0.13722
1/29/2018 14:00	53.73278	53.336	414	0.13722
1/29/2018 14:00	53.73278	53.336	416	0.13722
1/29/2018 14:00	53.73278	53.336	418	0.13722
1/29/2018 14:00	53.73278	53.324	420	0.13722
1/29/2018 14:01	53.74481	53.336	422	0.12519
1/29/2018 14:01	53.74481	53.336	424	0.12519
1/29/2018 14:01	53.74481	53.336	426	0.12519
1/29/2018 14:01	53.74481	53.324	428	0.12519
1/29/2018 14:01	53.74481	53.336	430	0.12519
1/29/2018 14:01	53.74481	53.336	432	0.12519
1/29/2018 14:01	53.74481	53.336	434	0.12519
1/29/2018 14:01	53.75383	53.336	436	0.11617
1/29/2018 14:01	53.75383	53.336	438	0.11617
1/29/2018 14:01	53.76285	53.336	440	0.10715
1/29/2018 14:01	53.76285	53.336	442	0.10715
1/29/2018 14:01	53.76285	53.336	444	0.10715
1/29/2018 14:01	53.76285	53.336	446	0.10715
1/29/2018 14:01	53.76285	53.336	448	0.10715
1/29/2018 14:01	53.76285	53.336	450	0.10715
1/29/2018 14:01	53.76285	53.336	452	0.10715
1/29/2018 14:01	53.76285	53.336	454	0.10715
1/29/2018 14:01	53.77187	53.336	456	0.09813
1/29/2018 14:01	53.77187	53.336	458	0.09813
1/29/2018 14:01	53.77187	53.336	460	0.09813
1/29/2018 14:01	53.77187	53.336	462	0.09813
1/29/2018 14:01	53.78089	53.336	464	0.08911
1/29/2018 14:01	53.78089	53.324	466	0.08911

Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 14:01	53.78089	53.336	468	0.08911
1/29/2018 14:01	53.78089	53.336	470	0.08911
1/29/2018 14:01	53.78089	53.336	472	0.08911
1/29/2018 14:01	53.78089	53.336	474	0.08911
1/29/2018 14:01	53.78992	53.336	476	0.08008
1/29/2018 14:01	53.78992	53.336	478	0.08008
1/29/2018 14:01	53.78992	53.336	480	0.08008
1/29/2018 14:02	53.78992	53.336	482	0.08008
1/29/2018 14:02	53.78992	53.336	484	0.08008
1/29/2018 14:02	53.78992	53.336	486	0.08008
1/29/2018 14:02	53.80195	53.336	488	0.06805
1/29/2018 14:02	53.80195	53.336	490	0.06805
1/29/2018 14:02	53.80195	53.336	492	0.06805
1/29/2018 14:02	53.80195	53.336	494	0.06805
1/29/2018 14:02	53.80195	53.336	496	0.06805
1/29/2018 14:02	53.80195	53.336	498	0.06805
1/29/2018 14:02	53.80195	53.336	500	0.06805
1/29/2018 14:02	53.81097	53.336	502	0.05903
1/29/2018 14:02	53.80195	53.336	504	0.06805
1/29/2018 14:02	53.81097	53.336	506	0.05903
1/29/2018 14:02	53.81097	53.336	508	0.05903
1/29/2018 14:02	53.81097	53.336	510	0.05903
1/29/2018 14:02	53.81097	53.336	512	0.05903
1/29/2018 14:02	53.81097	53.336	514	0.05903
1/29/2018 14:02	53.81999	53.324	516	0.05001
1/29/2018 14:02	53.81999	53.336	518	0.05001
1/29/2018 14:02	53.81999	53.336	520	0.05001
1/29/2018 14:02	53.81999	53.336	522	0.05001
1/29/2018 14:02	53.82901	53.336	524	0.04099
1/29/2018 14:02	53.81999	53.336	526	0.05001
1/29/2018 14:02	53.81999	53.336	528	0.05001
1/29/2018 14:02	53.81999	53.336	530	0.05001
1/29/2018 14:02	53.82901	53.336	532	0.04099
1/29/2018 14:02	53.81999	53.336	534	0.05001
1/29/2018 14:02	53.82901	53.336	536	0.04099
1/29/2018 14:02	53.82901	53.336	538	0.04099
1/29/2018 14:02	53.82901	53.336	540	0.04099
1/29/2018 14:03	53.82901	53.336	542	0.04099
1/29/2018 14:03	53.83804	53.336	544	0.03196
1/29/2018 14:03	53.82901	53.336	546	0.04099
1/29/2018 14:03	53.82901	53.324	548	0.04099
1/29/2018 14:03	53.83804	53.336	550	0.03196
1/29/2018 14:03	53.83804	53.336	552	0.03196
1/29/2018 14:03	53.83804	53.336	554	0.03196
1/29/2018 14:03	53.83804	53.336	556	0.03196
1/29/2018 14:03	53.84706	53.336	558	0.02294
1/29/2018 14:03	53.83804	53.336	560	0.03196

Luedtke Property  
PZ-1 (Slug Out)

1/29/2018 14:03	53.83804	53.336	562	0.03196
1/29/2018 14:03	53.83804	53.336	564	0.03196
1/29/2018 14:03	53.84706	53.336	566	0.02294
1/29/2018 14:03	53.84706	53.336	568	0.02294
1/29/2018 14:03	53.84706	53.336	570	0.02294
1/29/2018 14:03	53.84706	53.336	572	0.02294
1/29/2018 14:03	53.84706	53.336	574	0.02294
1/29/2018 14:03	53.84706	53.336	576	0.02294
1/29/2018 14:03	53.85909	53.336	578	0.01091
1/29/2018 14:03	53.85909	53.336	580	0.01091
1/29/2018 14:03	53.85909	53.336	582	0.01091
1/29/2018 14:03	53.85909	53.336	584	0.01091
1/29/2018 14:03	53.85909	53.336	586	0.01091
1/29/2018 14:03	53.85909	53.336	588	0.01091
1/29/2018 14:03	53.85909	53.336	590	0.01091
1/29/2018 14:03	53.86811	53.336	592	0.00189
1/29/2018 14:03	53.86811	53.336	594	0.00189
1/29/2018 14:03	53.86811	53.336	596	0.00189
1/29/2018 14:03	53.86811	53.336	598	0.00189
1/29/2018 14:03	53.86811	53.336	600	0.00189
1/29/2018 14:04	53.86811	53.336	602	0.00189
1/29/2018 14:04	53.86811	53.336	604	0.00189
1/29/2018 14:04	53.86811	53.336	606	0.00189
1/29/2018 14:04	53.86811	53.336	608	0.00189
1/29/2018 14:04	53.86811	53.336	610	0.00189
1/29/2018 14:04	53.86811	53.336	612	0.00189
1/29/2018 14:04	53.86811	53.336	614	0.00189
1/29/2018 14:04	53.87713	53.336	616	0.00713

END OF DATA FILE OF DATALOGGER FOR WINDOWS

LUST and Petroleum Analytical and QA Guidance  
July 1993 Revision

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be Landfilled <sup>5</sup>	Site Investigation, Pretreatment and Posttreatment Sample Analysis <sup>11</sup>
Regular Gasoline	GRO <sup>2</sup>	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO VOC/PVOC <sup>15</sup> Pb <sup>12</sup>
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO <sup>2</sup>	Free Liquids <sup>6</sup> GRO Benzene <sup>7</sup> Pb <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO <sup>3</sup>	Free Liquids <sup>6</sup> DRO Benzene <sup>7</sup> Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PVOC PAH <sup>13 14</sup>
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO <sup>3</sup>	Free Liquids <sup>6</sup> DRO Haz. Waste Deter. <sup>8</sup>	DRO <sup>3</sup> PAH <sup>13 14</sup>
Unknown Petroleum	GRO <sup>7</sup> and DRO <sup>3 4</sup>	Free Liquids <sup>6</sup> GRO and DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2 10</sup>	GRO and DRO <sup>3 4</sup> VOC/PVOC <sup>15</sup> PAH <sup>13 14</sup> Pb, Cd <sup>12</sup>
Waste Oil	DRO <sup>3</sup>	Free Liquids <sup>6</sup> DRO Pb, Cd <sup>7</sup> Haz. Waste Deter. <sup>8</sup> CN <sup>19</sup> S <sup>2 10</sup>	DRO <sup>3</sup> VOC/PVOC <sup>15</sup> PAH <sup>13 14</sup> PCBs <sup>16</sup> Pb, Cd <sup>12</sup>

Abbreviations:

GRO - Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method

DRO - Diesel Range Organics, Determined by the Wisconsin Modified DRO Method

VOC - Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)

PVOC - Petroleum Organic Compounds ( See Section 11.2 for a list of PVOC compounds)

PAH - Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)

PCBs - Polychlorinated Biphenyls

Pb - Lead

**SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements**

**TABLE 1  
SAMPLE & PRESERVATION REQUIREMENTS FOR WATER and  
DRINKING WATER SAMPLES**

Test	Original Sample Container	Preserved	Holding Time to Analysis
<b>WET CHEMISTRY</b>			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Chloride EPA 300.0/EPA 325.2	250 mL HDPE	4°C	28 days
Cyanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 mL HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C, pH<2 with HNO <sub>3</sub>	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub> or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H <sub>2</sub> SO <sub>4</sub>	28 days
Sulfate EPA 300.0	250 mL HDPE	4°C	28 days
Total Dissolved Solids EPA 160.1	250 ml HDPE	4°C	7 days
Total Solids EPA 160.3	250 ml HDPE	4°C	7 days
Total Suspended Solids EPA 160.2	250 mL HDPE	4°C	7 days
<b>METALS</b>			
Metals	250 mL HDPE	4°C, pH<2 with HNO <sub>3</sub>	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO <sub>3</sub>	28 days
<b>ORGANICS</b>			
Semivolatiles SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCl	7 days extr. 40 days following extr
VOC'S SW846 8260B/EPAS24.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

All samples are to be cooled to 4°C until tested.  
HDPE = High Density Polyethylene.



**SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements**

**TABLE 2  
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES**

Test	Original Sample Container	Preserved	Holding Times from Date and Time of Collection			
			Solvent Addition	Shipping	Extraction	Analysis
<b>METALS</b>						
Metals	2 oz glass or soil cup	4°C	NA	NA	NA	180 days
Mercury SW846 7471	2 oz glass or soil cup	4°C	NA	NA	NA	28 days
Chromium Hexavalent SM3500-Cr	2 oz glass or soil cup	4°C	NA	NA	NA	24 hours
<b>ORGANICS</b>						
Any combinations of GRO, VOC, PVOC	1- tared VOC vial with 10 mls methanol, 13 grams of soil collected with syringe	4°C, 1:1 with methanol	Immediately	4 days	21 days	21 days
DRO, Modified	1- tared VOC vial, 13 grams of soil collected with syringe jar	4°C, Hexane	10 days	4 days	47 days	47 days
PAH, SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
Semivolatile SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
PCB SW846 8082	2 oz glass untared	4°C	NA	NA	14 days	40 days

All samples are to be cooled to 4°C until tested.

Residential setting. Not-to-Exceed D-C RCLs from web-calculator at: [http://epa-prgs.com/gow/cgi-bin/chemicals/csat\\_search](http://epa-prgs.com/gow/cgi-bin/chemicals/csat_search) (Chicago as climatic zone).  
 Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).  
 Basis: ca = cancer; nc = non-cancer; Csat = soil saturation concentration; ceiling = 10%.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: <http://pubs.usgs.gov/sa-7011-52a/>.

1. Enter data in yellow cells. Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type "-", "NA" nor "space bar." Leave purple cells "as is."
2. After completing data entry, see Summary in Row 924.

A.7 Other

Site Name:  
 Sample ID:

Chemical Name	CAS Number	D-C RCL (mg/kg)	CEILING (mg/kg)	D-C RCL (mg/kg)	CEILING (mg/kg)	CSAT	INPUT Site Data (mg/kg)	Flag E = Individual Exceedance?	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106,000	1,600	1,600	ca					
Ethylbenzene	100-41-4	4,080,000	8,020	8,020	ca					
Toluene	108-88-3	5,240,000		818,000	Csat					
Xylenes	1330-20-7	816,000		260,000	Csat					
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100,000	63,800	63,800	ca					
Dichloroethane, 1,2-	107-06-2	43,700	.652	.652	ca					
Dibromomethane, 1,2-	106-93-4	100,000	.050	.050	ca					
Trichloroethylene	79-01-6	5,680	1,300	1,300	ca					
Tetrachloroethylene	127-18-4	109,000	33,000	33,000	ca					
Vinyl Chloride	75-01-4	89,200	.067	.067	ca					
Dichloroethylene, 1,1-	75-35-4	320,000		320,000	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560,000		1,560,000	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156,000		156,000	nc					
Trichloroethane, 1,1,1-	71-55-6	11,600,000		640,000	Csat					
Carbon Tetrachloride	56-23-5	131,000	.916	.916	ca					
Trimethylbenzene, 1,2,4-	95-63-6	373,000		219,000	Csat					
Trimethylbenzene, 1,3,5-	108-67-8	339,000		182,000	Csat					
Naphthalene	91-20-3	178,000	5,520	5,520	ca					
Benzo[a]pyrene	50-32-8	17,800	.115	.115	ca					
Acenaphthene	83-32-9	3,590,000		3,590,000	nc					
Acenaphthylene	208-96-8									
Anthracene	120-12-7	17,900,000		17,900,000	nc					
Benzo[a]anthracene	56-55-3		1,140	1,140	ca					
Benzo[b]fluoranthene	205-82-3		.424	.424	ca					
Benzo[k]fluoranthene	205-99-2		1,150	1,150	ca					
Benzo[g,h,i]perylene	191-24-2									
Benzo[k]fluoranthene	207-08-9		11,500	11,500	ca					
Chrysene	218-01-9		115,000	115,000	ca					
Dibenz[a,h]anthracene	53-70-3		.115	.115	ca					
Dibenz[a,e]pyrene	192-65-4		.042	.042	ca					
Dimethylbenz[a]anthracene, 7,12-	57-97-6		4,59E-04	4,59E-04	ca					
Fluoranthene	206-44-0	2,390,000		2,390,000	nc					
Fluorene	86-73-7	2,390,000		2,390,000	nc					
Indeno[1,2,3-cd]pyrene	193-39-5		1,150	1,150	ca					
Methylnaphthalene, 1-	90-12-0	4,180,000	17,600	17,600	ca					
Methylnaphthalene, 2-	91-57-6	239,000		239,000	nc					
Nitropyrene, 4-	57835-92-4		.424	.424	ca					
Perylene	198-55-0									
Phenanthrene	85-01-8									
Pyrene	129-00-0	1,790,000		1,790,000	nc					
Lead and Compounds	7439-92-1	400,000		400,000						
Bromobenzene	108-96-1	342,000		342,000	nc					
Bromodichloromethane	75-27-4	1,560,000	.418	.418	ca					
Bromoform	75-25-2	1,560,000	25,400	25,400	ca					
Butylbenzene, n-	104-51-8	3,910,000		108,000	Csat					
Butylbenzene, sec-	135-98-8	7,820,000		145,000	Csat					
Butylbenzene, tert-	98-06-6	7,820,000		183,000	Csat					
Chlorobenzene	108-90-7	370,000		370,000	nc					
Chloroform	67-66-3	259,000	.454	.454	ca					
Chloromethane	74-87-3	159,000		159,000	nc					
Chlorofluorene, o-	95-49-8	1,560,000		907,000	Csat					
Chlorofluorene, p-	106-43-4	1,560,000		253,000	Csat					
Dibromo-3-chloropropane, 1,2-	96-12-8	5,960	.008	.008	ca					
Dibromochloromethane	124-48-1	1,560,000	8,280	8,280	ca					
Dichlorobenzene, 1,2-	95-50-1	2,350,000		376,000	Csat					
Dichlorobenzene, 1,3-	541-73-1			297,000	Csat					
Dichlorobenzene, 1,4-	106-46-7	3,810,000	3,740	3,740	ca					
Dichlorodifluoromethane	75-71-9	126,000		126,000	nc					
Dichloroethane, 1,1-	75-34-3	15,600,000	5,060	5,060	ca					
Dichloropropane, 1,2-	78-87-5	22,600	.406	.406	ca					
Dichloropropane, 1,3-	142-28-9	1,560,000		1,490,000	Csat					
Dichloropropane, 2,2-	594-20-7			191,000	Csat					
Diisopropyl Ether	108-20-3	3,220,000		2,260,000	Csat					
Hexachlorobutadiene	87-68-3	78,200	1,630	1,630	ca					
Isopropyltoluene, p-	99-87-6			162,000	Csat					
Methylene Chloride	75-09-2	379,000	61,800	61,800	ca					
Tetrachloroethane, 1,1,1,2-	630-20-6	2,350,000	2,780	2,780	ca					
Tetrachloroethane, 1,1,2,2-	79-34-5	1,560,000	.810	.810	ca					
Trichlorobenzene, 1,2,3-	87-61-6	62,600		62,600	nc					
Trichlorobenzene, 1,2,4-	120-82-1	80,800	24,000	24,000	ca					
Trichloroethane, 1,1,2-	79-00-5	2,160	1,590	1,590	ca					
Trichlorofluoromethane	75-69-4	23,500,000		1,230,000	Csat					

Test1Chem(DRO) Wis. DRO  
 Test2Chem(GRO) Wis. GRO  
 Test3Chem(TPH) TPH

Type BRRTS No. Here (If Known)	Exceedance Count / Hazard Index / Cumulative Cancer Risk:	0	0.00E+00	0.00E+00
	To Pass, data must meet all these criteria:	Exceedance Count = 0	HI ≤ 1.0	Cumulative CR ≤ 1e-05
Bottom-Line:	Soil Data Entry Needed!			

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**Residual Contaminant Levels Protective of Groundwater Quality**  
 (Soil-to-Groundwater Scenario Results from: [http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search))

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (if Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -->	2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance
Acetochlor	34256-82-1	-	7	5.58E-03			1.12E-02	
Acetone	67-64-1	-	9000	1.85E+00			3.69E+00	
Alachlor	15972-60-8	2	2	1.65E-03			3.30E-03	
Aldicarb	116-06-3	3	10	2.49E-03			4.99E-03	
Aluminum	7429-90-5	-	200	3.01E+02			6.01E+02	
Antimony	7440-36-0	6	6	2.71E-01			5.42E-01	
Anthracene	120-12-7	-	3000	9.84E+01			1.97E+02	
Arsenic	7440-38-2	10	10	2.92E-01			5.84E-01	
Atrazine, total chlorinated residues	1912-24-9	3	3	1.95E-03			3.90E-03	
Barium	7440-39-3	2000	2000	8.24E+01			1.65E+02	
Bentazon	25057-89-0	-	300	6.59E-02			1.32E-01	
Benzene	71-43-2	5	5	2.56E-03			5.12E-03	
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01			4.70E-01	
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01			4.80E-01	
Beryllium	7440-41-7	4	4	3.16E+00			6.32E+00	
Boron	7440-42-8	-	1000	3.20E+00			6.40E+00	
Bromodichloromethane (THM)	75-27-4	80	0.6	1.63E-04			3.26E-04	
Bromoform (THM)	75-25-2	80	4.4	1.17E-03			2.33E-03	
Bromomethane	74-83-9	-	10	2.53E-03			5.06E-03	
Butylate	2008-41-5	-	400	3.88E-01			7.76E-01	
Cadmium	7440-43-9	5	5	3.76E-01			7.52E-01	
Carbaryl	63-25-2	-	40	3.64E-02			7.27E-02	
Carbofuran	1563-66-2	40	40	1.56E-02			3.12E-02	
Carbon disulfide	75-15-0	-	1000	2.97E-01			5.93E-01	
Carbon tetrachloride	56-23-5	5	5	1.94E-03			3.88E-03	
Chloramben	133-90-4	-	150	3.63E-02			7.27E-02	
Chlorodifluoromethane	75-45-6	-	7000	2.89E+00			5.79E+00	
Chloroethane	75-00-3	-	400	1.13E-01			2.27E-01	
Chloroform (THM)	67-66-3	80	6	1.67E-03			3.33E-03	
Chlorpyrifos	2921-88-2	-	2	2.95E-02			5.90E-02	
Chloromethane	74-87-3	-	30	7.76E-03			1.55E-02	
Chromium (total)	7440-47-3	100	100	1.80E+05			3.60E+05	
Chrysene (PAH)	218-01-9	-	0.2	7.25E-02			1.45E-01	
Cobalt	7440-48-4	-	40	1.81E+00			3.62E+00	
Copper	7440-50-8	1300	1300	4.58E+01			9.16E+01	
Cyanazine	21725-46-2	-	1	4.68E-04			9.37E-04	
Cyanide, free	57-12-5	200	200	2.02E+00			4.04E+00	
Dacthal (DCPA)	1861-32-1	-	70	8.56E-02			1.71E-01	
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05			2.82E-05	
Dibromochloromethane (THM)	124-48-1	80	60	1.60E-02			3.20E-02	
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05			1.73E-04	
Dibutyl phthalate	84-74-2	-	1000	2.52E+00			5.04E+00	
Dicamba	1918-00-9	-	300	7.76E-02			1.55E-01	
1,2-Dichlorobenzene	95-50-1	600	600	5.84E-01			1.17E+00	
1,3-Dichlorobenzene	541-73-1	-	600	5.76E-01			1.15E+00	
1,4-Dichlorobenzene	106-46-7	75	75	7.20E-02			1.44E-01	
Dichlorodifluoromethane	75-71-8	-	1000	1.54E+00			3.08E+00	
1,1-Dichloroethane	75-34-3	-	850	2.42E-01			4.84E-01	
1,2-Dichloroethane	107-06-2	5	5	1.42E-03			2.84E-03	
1,1-Dichloroethylene	75-35-4	7	7	2.51E-03			5.02E-03	
1,2-Dichloroethylene (cis)	156-59-2	70	70	2.06E-02			4.12E-02	
1,2-Dichloroethylene (trans)	156-60-5	100	100	2.94E-02			5.88E-02	
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70	70	1.81E-02			3.62E-02	
1,2-Dichloropropane	78-87-5	5	5	1.66E-03			3.32E-03	
1,3-Dichloropropane (total)	542-75-6	-	0.4	1.43E-04			2.85E-04	
Di (2-ethylhexyl) phthalate	117-81-7	6	6	1.44E+00			2.88E+00	
Dimethoate	60-51-5	-	2	4.51E-04			9.02E-04	
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05			1.35E-04	
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05			1.38E-04	
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.89E-05			1.38E-04	
Dinoseb	88-85-7	7	7	6.15E-02			1.23E-01	
1,4-Dioxane (p-dioxane)	123-91-1	-	3	6.18E-04			1.24E-03	
Dioxin (2,3,7,8-TCDD)	1746-01-6	0	0	1.50E-05			3.00E-05	
Endrin	72-20-8	2	2	8.08E-02			1.62E-01	
EPTC	759-94-4	-	250	1.32E-01			2.64E-01	
Ethylbenzene	100-41-4	700	700	7.85E-01			1.57E+00	
Ethyl Ether (Diethyl Ether)	60-29-7	-	1000	2.24E-01			4.47E-01	
Ethylene glycol	107-21-1	-	14000	2.82E+00			5.64E+00	
Fluoranthene	206-44-0	-	400	4.44E+01			8.88E+01	
Fluorene (PAH)	86-73-7	-	400	7.41E+00			1.48E+01	

Type BRRTS No.  
Here (If Known).  
Assess groundwater  
levels separately.

Re-assess if Cr-VI present

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**Residual Contaminant Levels Protective of Groundwater Quality**  
 (Soil-to-Groundwater Scenario Results from: [http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl\\_search](http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search))

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF ->	2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Fluoride	7782-41-4	4000	4000	6.01E+02			1.20E+03	
Fluorotrichloromethane	75-69-4	-	3490	2.23E+00			4.47E+00	
Formaldehyde	50-00-0	-	1000	2.02E-01			4.04E-01	
Heptachlor	76-44-8	0.4	0.4	3.31E-02			6.62E-02	
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03			8.16E-03	
Hexachlorobenzene	118-74-1	1	1	1.26E-02			2.52E-02	
n-Hexane	110-54-3	-	600	4.22E+00			8.44E+00	
Lead	7439-92-1	15	15	1.35E+01			2.70E+01	
Lindane	58-89-9	0.2	0.2	1.16E-03			2.32E-03	
Manganese	7439-96-5	-	300	1.96E+01			3.91E+01	
Mercury	7439-97-6	2	2	1.04E-01			2.08E-01	
Methanol	67-56-1	-	5000	1.01E+00			2.03E+00	
Methoxychlor	72-43-5	40	40	2.16E+00			4.32E+00	
Methylene chloride	75-09-2	5	5	1.28E-03			2.56E-03	
Methyl ethyl ketone (MEK)	78-93-3	-	4000	8.39E-01			1.68E+00	
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	1.13E-01			2.26E-01	
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60	1.35E-02			2.70E-02	
Melolachloris-Melolachlor	51218-45-2	-	100	1.17E-01			2.34E-01	
Metribuzin	21087-64-9	-	70	2.14E-02			4.28E-02	
Molybdenum	7439-98-7	-	40	8.08E-01			1.62E+00	
Monochlorobenzene	108-90-7	100	100	6.79E-02			1.36E-01	
Naphthalene	91-20-3	-	100	3.29E-01			6.59E-01	
Nickel	7440-02-0	-	100	6.50E+00			1.30E+01	
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7	3.82E-02			7.64E-02	
Pentachlorophenol (PCP)	87-86-5	1	1	1.01E-02			2.02E-02	
Phenol	108-95-2	-	2000	1.15E+00			2.30E+00	
Picloram	1918-02-1	500	500	1.39E-01			2.78E-01	
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03			9.38E-03	
Prometon	1610-18-0	-	100	4.75E-02			9.49E-02	
Propazine	139-40-2	-	10	8.86E-03			1.77E-02	
Pyrene (PAH)	129-00-0	-	250	2.72E+01			5.45E+01	
Pyridine	110-86-1	-	10	3.44E-03			6.87E-03	
Selenium	7782-49-2	50	50	2.60E-01			5.20E-01	
Silver	7440-22-4	-	50	4.25E-01			8.50E-01	
Simazine	122-34-9	4	4	1.97E-03			3.94E-03	
Styrene	100-42-5	100	100	1.10E-01			2.20E-01	
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	2.45E-03			4.90E-03	
1,1,1,2-Tetrachloroethane	630-20-6	-	70	2.67E-02			5.33E-02	
1,1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05			1.56E-04	
Tetrachloroethylene (PCE)	127-18-4	5	5	2.27E-03			4.54E-03	
Tetrahydrofuran	109-99-9	-	50	1.11E-02			2.22E-02	
Thallium	7440-28-0	2	2	1.42E-01			2.84E-01	
Toluene	108-88-3	1000	800	5.54E-01			1.11E+00	
Toxaphene	8001-35-2	3	3	4.64E-01			9.28E-01	
1,2,4-Trichlorobenzene	120-82-1	70	70	2.04E-01			4.08E-01	
1,1,1-Trichloroethane	71-55-6	200	200	7.01E-02			1.40E-01	
1,1,2-Trichloroethane	79-00-5	5	5	1.62E-03			3.24E-03	
Trichloroethylene (TCE)	79-01-6	5	5	1.79E-03			3.58E-03	
1,1,1,2,2,2-Hexachloroethane	93-72-1	50	50	2.75E-02			5.50E-02	
1,2,3-Trichloropropane	96-18-4	-	60	2.60E-02			5.20E-02	
Trifluralin	1582-09-8	-	7.5	2.48E-01			4.95E-01	
2,4,6-Trinitrophenol (TNP)	95-63-6 / 108-67-8	-	480	6.90E-01			1.38E+00	
Vanadium	7440-62-2	-	-	-			-	
Vinyl chloride	75-01-4	2	0.2	6.90E-05			1.38E-04	
Xylenes (m-, o-, p- combined)	1330-20-7	10000	2000	1.97E+00			3.94E+00	

Type BRRTS No Here (If Known). Assess groundwater levels separately

# Site-specific

## Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0E-6
LT (lifetime) year	70
ET <sub>...</sub> (exposure time) hour	24
ET <sub>...</sub> (child exposure time) hour	24
ET <sub>...</sub> (adult exposure time) hour	24
ET <sub>0.2</sub> (mutagenic exposure time) hour	24
ET <sub>2.6</sub> (mutagenic exposure time) hour	24
ET <sub>6-16</sub> (mutagenic exposure time) hour	24
ET <sub>16-26</sub> (mutagenic exposure time) hour	24
ED <sub>...</sub> (exposure duration) year	26
ED <sub>...</sub> (exposure duration - child) year	6
ED <sub>...</sub> (exposure duration - adult) year	20
ED <sub>0.2</sub> (mutagenic exposure duration) year	2
ED <sub>2.6</sub> (mutagenic exposure duration) year	4
ED <sub>6-16</sub> (mutagenic exposure duration) year	10
ED <sub>16-26</sub> (mutagenic exposure duration) year	10
BW <sub>...</sub> (body weight - child) kg	15
BW <sub>...</sub> (body weight - adult) kg	80
BW <sub>0.2</sub> (mutagenic body weight) kg	15
BW <sub>2.6</sub> (mutagenic body weight) kg	15
BW <sub>6-16</sub> (mutagenic body weight) kg	80
BW <sub>16-26</sub> (mutagenic body weight) kg	80
SA <sub>res-c</sub> (skin surface area - child) cm <sup>2</sup> /day	2373
SA <sub>res-a</sub> (skin surface area - adult) cm <sup>2</sup> /day	6032
SA <sub>0.2</sub> (mutagenic skin surface area) cm <sup>2</sup> /day	2373
SA <sub>2.6</sub> (mutagenic skin surface area) cm <sup>2</sup> /day	2373
SA <sub>6-16</sub> (mutagenic skin surface area) cm <sup>2</sup> /day	6032
SA <sub>16-26</sub> (mutagenic skin surface area) cm <sup>2</sup> /day	6032
EF <sub>...</sub> (exposure frequency) day/year	350
EF <sub>...</sub> (exposure frequency - child) day/year	350
EF <sub>...</sub> (exposure frequency - adult) day/year	350
EF <sub>0.2</sub> (mutagenic exposure frequency) day/year	350

# Site-specific

## Resident Equation Inputs for Soil

2

Variable	Value
$EF_{7-16}$ (mutagenic exposure frequency) day/year	350
$EF_{6-16}$ (mutagenic exposure frequency) day/year	350
$EF_{1-6}$ (mutagenic exposure frequency) day/year	350
$IFS_{7-16}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{7-16}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
$IRS_{7-16}$ (soil intake rate - child) mg/day	200
$IRS_{6-16}$ (soil intake rate - adult) mg/day	100
$IRS_{7-16}$ (mutagenic soil intake rate) mg/day	200
$IRS_{6-16}$ (mutagenic soil intake rate) mg/day	200
$IRS_{1-6}$ (mutagenic soil intake rate) mg/day	100
$IRS_{1-6}$ (mutagenic soil intake rate) mg/day	100
$AF_{res>6}$ (skin adherence factor - adult) mg/cm <sup>2</sup>	0.07
$AF_{res<6}$ (skin adherence factor - child) mg/cm <sup>2</sup>	0.2
$AF_{0-2}$ (mutagenic skin adherence factor) mg/cm <sup>2</sup>	0.2
$AF_{2-6}$ (mutagenic skin adherence factor) mg/cm <sup>2</sup>	0.2
$AF_{6-16}$ (mutagenic skin adherence factor) mg/cm <sup>2</sup>	0.07
$AF_{16-26}$ (mutagenic skin adherence factor) mg/cm <sup>2</sup>	0.07
$DFS_{7-16}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{7-16}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Chicago, IL (7)
$A_s$ (acres)	.5
$Q/C_{wp}$ (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	98.430714368855
PEF (particulate emission factor) m <sup>-3</sup> /kg	1560521176.9649
A (PEF Dispersion Constant)	16.8653
B (PEF Dispersion Constant)	18.7848
C (PEF Dispersion Constant)	215.0624
V (fraction of vegetative cover) unitless	0.5
$U_m$ (mean annual wind speed) m/s	4.65
$U_t$ (equivalent threshold value)	11.32
F(x) (function dependant on $U_m/U_t$ ) unitless	0.182
City (Climate Zone) VF Selection	Chicago, IL (7)
$A_s$ (acres)	.5
$Q/C_{vol}$ (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	98.430714368855

# Site-specific

## Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
$\rho_b$ (dry soil bulk density) g/cm <sup>3</sup>	1.5
$\rho_s$ (soil particle density) g/cm <sup>3</sup>	2.65
n (total soil porosity) $L_{pore}/L_{total}$	0.43396
$\theta_a$ (air-filled soil porosity) $L_{air}/L_{total}$	0.28396
$\theta_w$ (water-filled soil porosity) $L_{water}/L_{total}$	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	16.8653
B (VF Dispersion Constant)	18.7848
C (VF Dispersion Constant)	215.0624
City (Climate Zone) VF <sub>cl</sub> Selection	Chicago, IL (7)
VF <sub>s</sub> (volatilization factor) m <sup>3</sup> /kg	.
Q/C <sub>soil</sub> (g/m <sup>2</sup> -s per kg/m <sup>3</sup> )	98.430714368855
A, (acres)	.5
T (exposure interval) yr	26
d, (depth of source) m	.
$\rho_b$ (dry soil bulk density) g/cm <sup>3</sup>	1.5
A (VF Dispersion Constant - Mass Limit)	16.8653
B (VF Dispersion Constant - Mass Limit)	18.7848
C (VF Dispersion Constant - Mass Limit)	215.0624

## Site-specific

### Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca\* (Where nc SL < 100 x ca SL),

ca\*\* (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,

Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide).

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion		Inhalation		Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m <sup>3</sup> )	Chronic RfC Ref
				SF (mg/kg-day)	SFO Ref	Unit Risk (ug/m <sup>3</sup> )	IUR Ref				
Benzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I	3.00E-02	I
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	I	6.00E-04	I	9.00E-03	I	9.00E-03	I
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	I	2.60E-05	I	6.00E-03	S	7.00E-03	P
Ethylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I	1.00E+00	I
Lead and Compounds	7439-92-1	No	No	-	-	-	-	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	C	2.60E-07	C	-	-	3.00E+00	I
Acenaphthene	83-32-9	No	Yes	-	-	-	-	6.00E-02	I	-	-
Anthracene	120-12-7	No	Yes	-	-	-	-	3.00E-01	I	-	-
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	W	1.10E-04	C	-	-	-	-
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	C	1.10E-04	C	-	-	-	-
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	I	1.10E-03	C	-	-	-	-
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	W	1.10E-04	C	-	-	-	-
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	W	1.10E-04	C	-	-	-	-
Chrysene	218-01-9	Yes	No	7.30E-03	W	1.10E-05	C	-	-	-	-
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	W	1.20E-03	C	-	-	-	-
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	C	1.10E-03	C	-	-	-	-
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	C	7.10E-02	C	-	-	-	-
Fluoranthene	206-44-0	No	No	-	-	-	-	4.00E-02	I	-	-
Fluorene	86-73-7	No	Yes	-	-	-	-	4.00E-02	I	-	-
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	W	1.10E-04	C	-	-	-	-
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	P	-	-	7.00E-02	A	-	-
Methylnaphthalene, 2-	91-57-6	No	Yes	-	-	-	-	4.00E-03	I	-	-
Naphthalene	91-20-3	No	Yes	-	-	3.40E-05	C	2.00E-02	I	3.00E-03	I
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-	-	-	-
Pyrene	129-00-0	No	Yes	-	-	-	-	3.00E-02	I	-	-
Toluene	108-88-3	No	Yes	-	-	-	-	8.00E-02	I	5.00E+00	I
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-	-	-	-	-	-	7.00E-03	P
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-	-	-	-	1.00E-02	S	-	-
Xylenes	1330-20-7	No	Yes	-	-	-	-	2.00E-01	I	1.00E-01	I



# Site-specific

## Resident Screening Levels (RSL) for Soil

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide).

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	GIABS	ABS	RBA	Volatilization	Soil	Particulate	Ingestion	Dermal	Inhalation	Carcinogenic
				Factor (m <sup>3</sup> /kg)	Saturation Concentration (mg/kg)	Emission Factor (m <sup>3</sup> /kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)
Benzene	1	-	1	5.10E+03	1.82E+03	1.56E+09	1.26E+01	-	1.84E+00	1.60E+00
Dibromoethane, 1,2-	1	-	1	1.25E+04	1.34E+03	1.56E+09	3.48E-01	-	5.84E-02	5.00E-02
Dichloroethane, 1,2-	1	-	1	6.60E+03	2.98E+03	1.56E+09	7.64E+00	-	7.13E-01	6.52E-01
Ethylbenzene	1	-	1	8.18E+03	4.80E+02	1.56E+09	6.32E+01	-	9.19E+00	8.02E+00
Lead and Compounds	1	-	1	-	-	1.56E+09	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1	-	1	7.08E+03	8.87E+03	1.56E+09	3.86E+02	-	7.64E+01	6.38E+01
Acenaphthene	1	0.13	1	2.03E+05	-	1.56E+09	-	-	-	-
Anthracene	1	0.13	1	7.56E+05	-	1.56E+09	-	-	-	-
Benz[a]anthracene	1	0.13	1	6.37E+06	-	1.56E+09	2.10E-01	6.29E-01	5.85E+01	1.57E-01
Benzo(j)fluoranthene	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Benzo[a]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.44E+03	1.57E-02
Benzo[b]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Benzo[k]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E+00	6.29E+00	1.44E+04	1.57E+00
Chrysene	1	0.13	1	-	-	1.56E+09	2.10E+01	6.29E+01	1.44E+05	1.57E+01
Dibenz[a,h]anthracene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.32E+03	1.57E-02
Dibenzo(a,e)pyrene	1	0.13	1	-	-	1.56E+09	5.79E-02	1.58E-01	3.98E+03	4.24E-02
Dimethylbenz(a)anthracene, 7,12-	1	0.13	1	-	-	1.56E+09	6.13E-04	1.84E-03	2.23E+01	4.59E-04
Fluoranthene	1	0.13	1	-	-	1.56E+09	-	-	-	-
Fluorene	1	0.13	1	4.06E+05	-	1.56E+09	-	-	-	-
Indeno[1,2,3-cd]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Methylnaphthalene, 1-	1	0.13	1	8.46E+04	3.94E+02	1.56E+09	2.40E+01	6.55E+01	-	1.76E+01
Methylnaphthalene, 2-	1	0.13	1	8.37E+04	-	1.56E+09	-	-	-	-
Naphthalene	1	0.13	1	6.69E+04	-	1.56E+09	-	-	5.52E+00	5.52E+00
Nitropyrene, 4-	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Pyrene	1	0.13	1	3.43E+06	-	1.56E+09	-	-	-	-
Toluene	1	-	1	6.19E+03	8.18E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,2,4-	1	-	1	1.14E+04	2.19E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,3,5-	1	-	1	9.54E+03	1.82E+02	1.56E+09	-	-	-	-
Xylenes	1	-	1	8.28E+03	2.60E+02	1.56E+09	-	-	-	-

**Site-specific**

**Resident Screening Levels (RSL) for Soil**

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 Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide).  
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Chemical	Ingestion	Dermal	Inhalation	Noncarcinogenic	Ingestion	Dermal	Inhalation	Noncarcinogenic	Screening Level (mg/kg)
	SL	SL	SL	SL	SL	SL	SL	SL	
	Child THQ=1 (mg/kg)	Child THQ=1 (mg/kg)	Child THQ=1 (mg/kg)	Child THI=1 (mg/kg)	Adult THQ=1 (mg/kg)	Adult THQ=1 (mg/kg)	Adult THQ=1 (mg/kg)	Adult THI=1 (mg/kg)	
Benzene	3.13E+02	-	1.60E+02	1.06E+02	3.34E+03	-	1.60E+02	1.52E+02	1.60E+02
Dibromoethane, 1,2-	7.04E+02	-	1.17E+02	1.00E+02	7.51E+03	-	1.17E+02	1.15E+02	1.17E+02
Dichloroethane, 1,2-	4.69E+02	-	4.82E+01	4.37E+01	5.01E+03	-	4.82E+01	4.77E+01	4.82E+01
Ethylbenzene	7.82E+03	-	8.53E+03	4.08E+03	8.34E+04	-	8.53E+03	7.74E+03	8.53E+03
Lead and Compounds	-	-	-	-	-	-	-	-	1.00E+02
Methyl tert-Butyl Ether (MTBE)	-	-	2.21E+04	2.21E+04	-	-	2.21E+04	2.21E+04	2.21E+04
Acenaphthene	4.69E+03	1.52E+04	-	3.59E+03	5.01E+04	9.12E+04	-	3.23E+04	3.59E+03
Anthracene	2.35E+04	7.61E+04	-	1.79E+04	2.50E+05	4.56E+05	-	1.62E+05	2.50E+05
Benz[a]anthracene	-	-	-	-	-	-	-	-	1.57E+01
Benzo(j)fluoranthene	-	-	-	-	-	-	-	-	2.24E+01
Benzo[a]pyrene	-	-	-	-	-	-	-	-	1.57E+02
Benzo[b]fluoranthene	-	-	-	-	-	-	-	-	1.57E+01
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	1.57E+01
Chrysene	-	-	-	-	-	-	-	-	1.57E+01
Dibenz[a,h]anthracene	-	-	-	-	-	-	-	-	1.57E+02
Dibenzo(a,e)pyrene	-	-	-	-	-	-	-	-	2.24E+01
Dimethylbenz(a)anthracene, 7,12-	-	-	-	-	-	-	-	-	1.59E+01
Fluoranthene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	3.34E+04
Fluorene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	3.34E+04
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	-	-	-	1.57E+01
Methylnaphthalene, 1-	5.48E+03	1.77E+04	-	4.18E+03	5.84E+04	1.06E+05	-	3.77E+04	5.84E+04
Methylnaphthalene, 2-	3.13E+02	1.01E+03	-	2.39E+02	3.34E+03	6.08E+03	-	2.15E+03	3.34E+03
Naphthalene	1.56E+03	5.07E+03	2.09E+02	1.78E+02	1.67E+04	3.04E+04	2.09E+02	2.05E+02	3.04E+04
Nitropyrene, 4-	-	-	-	-	-	-	-	-	2.24E+01
Pyrene	2.35E+03	7.61E+03	-	1.79E+03	2.50E+04	4.56E+04	-	1.62E+04	2.50E+04
Toluene	6.26E+03	-	3.23E+04	5.24E+03	6.67E+04	-	3.23E+04	2.18E+04	6.67E+04
Trimethylbenzene, 1,2,4-	-	-	8.34E+01	8.34E+01	-	-	8.34E+01	8.34E+01	8.34E+01
Trimethylbenzene, 1,3,5-	7.82E+02	-	-	7.82E+02	8.34E+03	-	-	8.34E+03	8.34E+03
Xylenes	1.56E+04	-	8.64E+02	8.18E+02	1.67E+05	-	8.64E+02	8.59E+02	1.67E+05

(22) "Wastewater and sludge storage or treatment lagoon" means a natural or man-made containment structure, constructed primarily of earthen materials for the treatment or storage of wastewater or sludge, which is not a land disposal system.

**History:** Cr. Register, September, 1985, No. 557, eff. 10-1-85; cr. (1m), am. (7), (17) and (18), Register, October, 1988, No. 394, eff. 11-1-88; am. (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4-1-94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9-1-95; cr. (14m), Register, October, 1996, No. 490, eff. 11-1-96; am. (20), Register, December, 1998, No. 516, eff. 1-1-99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats. Register, April, 2001, No. 544; CR 02-174; cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7-1-03; correction in (20) made under s. 13.92 (4) (b) 6., Stats., Register January 2012 No. 673.

## Subchapter II — Groundwater Quality Standards

**NR 140.10 Public health related groundwater standards.** The groundwater quality standards for substances of public health concern are listed in Table 1.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table 1 as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table 1  
Public Health Groundwater Quality Standards

Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Acetochlor	7	0.7
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor – ESA + OXA)	230	46
Acetone	9 mg/l	1.8 mg/l
Alachlor	2	0.2
Alachlor ethane sulfonic acid (Alachlor – ESA)	20	4
Aldicarb	10	2
Aluminum	200	40
Ammonia (as N)	9.7 mg/l	0.97 mg/l
Antimony	6	1.2
Anthracene	3000	600
Arsenic	10	1
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3 <sup>2</sup>	0.3 <sup>2</sup>
Bacteria, Total Coliform	0 <sup>3</sup>	0 <sup>3</sup>
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0.6
Chlorpyrifos	2	0.4
Chloromethane	30	3
Chromium (total)	100	10
Chrysene	0.2	0.02

Table 1 – Continued  
Public Health Groundwater Quality Standards

Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide, free <sup>4</sup>	200	40
Dacthal	70	14
1,2-Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	1000	100
Dicamba	300	60
1,2-Dichlorobenzene	600	60
1,3-Dichlorobenzene	600	120
1,4-Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
1,2-Dichloroethylene (cis)	70	7
1,2-Dichloroethylene (trans)	100	20
2,4-Dichlorophenoxyacetic Acid (2,4-D)	70	7
1,2-Dichloropropane	5	0.5
1,3-Dichloropropene (cis/trans)	0.4	0.04
Di (2-ethylhexyl) phthalate	6	0.6
Dimethenamid/Dimethenamid-P	50	5
Dimethoate	2	0.4
2,4-Dinitrotoluene	0.05	0.005
2,6-Dinitrotoluene	0.05	0.005
Dinitrotoluene, Total Residues <sup>5</sup>	0.05	0.005
Dinoseb	7	1.4
1,4-Dioxane	3	0.3
Dioxin (2, 3, 7, 8-TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethyl ether	1000	100
Ethylene glycol	14 mg/l	2.8 mg/l
Fluoranthene	400	80
Fluorene	400	80
Fluoride	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N-Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02
Manganese	300	60
Mercury	2	0.2

Table 1 – Continued  
Public Health Groundwater Quality Standards

Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	4 mg/l	0.8 mg/l
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert-butyl ether (MTBE)	60	12
Metolachlor/s-Metolachlor	100	10
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor – ESA + OXA)	1.3 mg/l	0.26 mg/l
Metribuzin	70	14
Molybdenum	40	8
Monochlorobenzene	100	20
Naphthalene	100	10
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	1 mg/l	0.2 mg/l
N-Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Perchlorate	1	0.1
Phenol	2 mg/l	0.4 mg/l
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	100	20
Propazine	10	2
Pyrene	250	50
Pyridine	10	2
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
Tertiary Butyl Alcohol (TBA)	12	1.2
1,1,1,2-Tetrachloroethane	70	7
1,1,2,2-Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	800	160
Toxaphene	3	0.3
1,2,4-Trichlorobenzene	70	14
1,1,1-Trichloroethane	200	40
1,1,2-Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	50	5
1,2,3-Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	480	96
Vanadium	30	6

Table 1 – Continued  
Public Health Groundwater Quality Standards

Substance <sup>1</sup>	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Vinyl chloride	0.2	0.02
Xylene <sup>6</sup>	2 mg/l	0.4 mg/l

<sup>1</sup> Appendix 1 contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

<sup>2</sup> Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-isopropylamino-5-triazine (formerly deethylatrazine), 2-chloro-4-amino-6-ethylamino-5-triazine (formerly deisopropylatrazine) and 2-chloro-4,6-diamino-5-triazine (formerly diaminoatrazine).

<sup>3</sup> Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence-absence (P-A) coliform test, the minimal medium ONPG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique.

<sup>4</sup> "Cyanide, free" refers to the simple cyanides (HCN, CN<sup>-</sup>) and for readily dissociable metal-cyanide complexes. Free cyanide is regulatorily equivalent to cyanide quantified by approved analytical methods for "amenable cyanide" or "available cyanide".

<sup>5</sup> Dinitrotoluene, Total Residues includes the dinitrotoluene (DNT) isomers: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT and 3,5-DNT.

<sup>6</sup> Xylene includes meta-, ortho-, and para-xylene combined.

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 1, Register, October, 1988, No. 394, eff. 11-1-88; am. table 1, Register, September, 1990, No. 417, eff. 10-1-90; am. Register, January, 1992, No. 433, eff. 2-1-92; am. Table 1, Register, March, 1994, No. 459, eff. 4-1-94; am. Table 1, Register, August, 1995, No. 476, eff. 9-1-95; am. Table 1, Register, December, 1998, No. 516, eff. 1-1-99; am. Table 1, Register, December, 1998, No. 516, eff. 12-31-99; am. Table 1, Register, March, 2000, No. 531, eff. 4-1-00; CR 03-063; am. Table 1, Register February 2004 No. 578, eff. 3-1-04; CR 02-093; am. Table 1, Register November 2006 No. 611, eff. 12-1-06; reprinted to correct errors in Table 1, Register January 2007 No. 613; CR 07-034; am. Table 1 Register January 2008 No. 625, eff. 2-1-08; CR 09-102; am. Table 1 Register December 2010 No. 660, eff. 1-1-11.

**NR 140.12 Public welfare related groundwater standards.** The groundwater quality standards for substances of public welfare concern are listed in Table 2.

Note: For each substance of public welfare concern, the preventive action limit is 50% of the established enforcement standard.

Table 2  
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene-Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3 (Threshold Odor No.)	1.5 (Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 2, Register, October, 1990, No. 418, eff. 11-1-90; am. Table 2, Register, March, 1994, No. 459, eff. 4-1-94.

**NR 140.14 Statistical procedures.** (1) If a preventive action limit or an enforcement standard for a substance listed in Table 1 or 2, an alternative concentration limit issued in accordance with s. NR 140.28 or a preventive action limit for an indicator parameter established according to s. NR 140.20 (2) is attained or exceeded at a point of standards application:

(a) The owner or operator of the facility, practice or activity at which a standard is attained or exceeded shall notify the appropriate regulatory agency that a standard has been attained or exceeded; and

(b) The regulatory agency shall require a response in accordance with the rules promulgated under s. 160.21, Stats. No response shall be required if it is demonstrated to the satisfaction of the appropriate regulatory agency that a scientifically valid determination cannot be made that the preventive action limit or enforcement standard for a substance in Table 1 or 2 has been attained or exceeded based on consideration of sampling procedures or laboratory precision and accuracy, at a significance level of 0.05.

(2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests.

(3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:

(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:

1. The substance has been analytically confirmed to be present in the same sample using an equivalently sensitive analytical method or the same analytical method, and

2. The substance has been statistically confirmed to be present above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05.

(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

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**APPENDIX F/ QUALIFICATIONS OF METCO PERSONNEL**

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**Ronald J. Anderson, P.G.**

**Professional Titles**

- Senior Hydrogeologist
- Project Manager

**Credentials**

- Licensed Professional Geologist in Wisconsin
- Licensed Professional Geologist in Minnesota
- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist
- Certified by State of Wisconsin to conduct PECFA-funded LUST projects
- Certified tank closure site assessor (#41861) in Wisconsin
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the Federation of Environmental Technologist, Inc.

**Education**

Includes a BA in Earth Science from the University of Minnesota-Duluth. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Geological Field Methods, Geology Field Camp, Geomorphology, Structural Geology, Stratigraphy/Tectonics, Mineralogy/Petrology, Glacial/Quaternary Geology, Geology of North America, Oceanography, General Chemistry, Organic Chemistry, and Environmental Conservation.

**Post-Graduate Education**

Includes Personnel Protection and Safety, Conducting Comprehensive Environmental Property Assessments, Groundwater Flow and Well Hydraulics, Effective Techniques for Contaminated Groundwater Treatment, and numerous other continuing education classes and conferences.

**Work Experience**

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 1,465 environmental sites.



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**Jason T. Powell**

**Professional Title**

- Staff Scientist

**Credentials**

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Scientist.

**Education**

Includes a BS in Groundwater Management from the University of Wisconsin- Stevens Point. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Hydrogeology-Groundwater Flow Modeling, Groundwater Management, Structural Geology, Mineralogy, Glacial Geology, Soils, Soil Physics, Hydrology, Geochemistry, Water Chemistry, Organic Chemistry, General Chemistry, Environmental Issues.

**Post-Graduate Education**

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

**Work Experience**

With METCO since May 1992 as a Geoprobe Assistant and Geoprobe Operator. In June 1995 to July 1996 as a Environmental Technician. In July 1996 as a Staff Scientist. Duties have included: LUST investigations; general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater sampling); drilling projects (soil boring and monitoring wells); remedial projects (sampling, pilot tests, system operation/maintenance) and project management.

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**Eric J. Dahl**

**Professional Title**

- Hydrogeologist

**Credentials**

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist.
- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#823519).

**Education**

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Environmental Geology, Physical Hydrogeology, Chemical Hydrogeology, Computer Modeling in Hydrogeology, Aqueous Geochemistry, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth Resources, Earth History, and Structural Geology.

**Post-Graduate Education**

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

**Work Experience**

With METCO since November 1999 as a Hydrogeologist. Duties have included: Site Investigations, Phase I and Phase II Environmental Site Assessments, Case Closure Requests/GIS Registry, Geoprobe projects (oversight, direction, and sampling), drilling projects/monitoring well installation (oversight, direction, and sampling), soil excavation projects (oversight, direction, and sampling), Geoprobe operation, and operation and maintenance of remedial systems.

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**Thomas P. Pignet, P.E.**

**Professional Titles**

- Chemical Engineer
- Industrial Engineer

**Credentials**

- Licensed Professional Engineer in Wisconsin

**Education**

Undergraduate: B.S. in Chemical Engineering from the University of Wisconsin. Applicable courses include the standard chemistry curriculum - basic, physical, organic, etc. - plus engineering transport phenomena, chemical unit operations (e.g. separations), fluid mechanics, etc.

**Post-Graduate Education**

Ph.D. in Chemical Engineering from the University of Minnesota - with applicable special training in absorption & catalysis; M.S. in Industrial Engineering from the University of Wisconsin - Milwaukee - with special emphasis on statistical techniques and data analysis. Applicable further training: continuing education, semester-length courses in [1] Understanding Environmental & Safety Regulation; [2] Hazardous & Toxic Waste Management; plus a number of 1-2 day workshops - Fire & Explosion Safety; Small Quantity Generations of Hazardous Waste.

**Work Experience**

Includes ten years as a research chemical engineer with a large chemical manufacturer; one year as process development engineer and demonstration-scale test analyst on a unique coal gasification project; ten years in association with UW-M, teaching and consulting to industry on energy efficiency, waste minimization and productivity improvement. One year working with a small engineering consulting firm on energy, environmental, and process improvement projects, including LUST Investigations and Remediations. With METCO since February 2000. Duties include Remedial Action Plan preparation, pilot test design and performance, remedial systems design and implementation, and general management of METCO's remedial projects.

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**Jon Jensen**

**Professional Title**

- Staff Scientist

**Credentials**

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1294924).

**Education**

Includes B.S. in Geography with and Environmental Science minor from University of Wisconsin – La Crosse: Applicable courses successfully completed include Interpretation of Aerial Photographs, Intro to GIS, Advanced Remote Sensing, Fundamentals of Cartography, Biogeography, and Conservation of Global Environments.

**Work Experience**

With METCO since July, 2014 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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**Tyler Woodke**

**Professional Title**

- Staff Scientist

**Credentials**

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#396413).

**Education**

Includes B.S. in Geography with an Environmental Studies minor from the University of Wisconsin-La Crosse. Applicable courses successfully completed include: Introduction to Biology, Introduction to Environmental Studies, Earth Environments, Conservation of Global Environments, Introduction to GIS, History of Environmental Policies in the U.S., Interpretation of Aerial Photographs, Fundamentals of Cartography, Environmental Hazards/Land Use, Remote Sensing, Water Resources, Environmental Sustainability, and Environmental Ethics, Outdoor Recreation and Natural Resources.

**Work Experience**

With METCO since February, 2018 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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**Kaylin D. Felix**

**Professional Title**

- Hydrogeologist

**Credentials**

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1564301).

**Education**

Includes B.S. in Geology (Hydrogeology) from the University of Wisconsin- Oshkosh. Applicable courses successfully completed include Physical Hydrogeology, Chemical Hydrogeology, Applied Geologic Field Methods, Field Geology, Mineralogy, Sedimentology, Lithology, Evolution of Earth, Physical Geology, Structural Geology and Tectonics, Glacial Geology, Geophysics and Geotectonics, Geochemistry, Water Resource Management and Geographic Informational Systems.

**Work Experience**

With METCO since April, 2018 as Hydrogeologist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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**Maxwell Wannow**

**Professional Title**

- Hydrogeologist

**Credentials**

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1564301).

**Education**

Includes B.S. in Geology (Hydrogeology) from the University of Wisconsin- Oshkosh. Applicable courses successfully completed include Physical Hydrogeology, Chemical Hydrogeology, Applied Geologic Field Methods, Field Geology, Mineralogy, Sedimentology, Lithology, Evolution of Earth, Physical Geology, Structural Geology and Tectonics, Glacial Geology, Geophysics and Geotectonics, Geochemistry, Water Resource Management and Geographic Informational Systems.

**Work Experience**

With METCO since June, 2018 as Hydrogeologist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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APPENDIX G/ STANDARD OF CARE**



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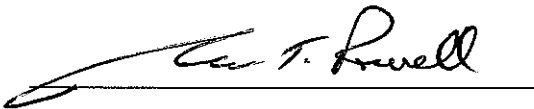
**STANDARD OF CARE**

The analysis and conclusions expressed in this report are based upon data obtained from the indicated subsurface locations and from other sources discussed in this report. Actual subsurface conditions may vary and may not become evident without further assessment.

All work conducted by METCO is in accordance with currently accepted hydrogeologic and engineering practices and they neither imply nor intend warranty.

We appreciate the opportunity to be of service to you. If you have any questions or require additional information, please do not hesitate to contact us.

"I Jason T. Powell, 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.

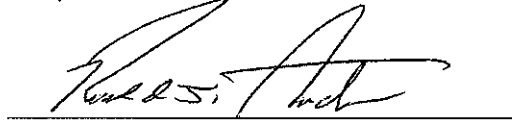


Jason T. Powell  
Staff Scientist

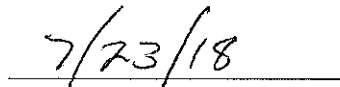


Date

"I Ronald J. Anderson, hereby certify that I am a hydrogeologist as that term is defined in s.NR 712.03 (1), 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."



Ronald J. Anderson PG  
Senior Hydrogeologist/Project Manager



Date