Site Investigation Report

Korth Property
1629 W Washington Street
Appleton, Wisconsin

April 6, 2018
by METCO
WDNR File Reference #: 03-45-002078
PECFA Claim #: 54914-3412-29

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This document was prepared by:

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April 6, 2018

BRRTS #: 03-45-002078
PECFA #: 54914-3412-29

Robert Korth
N2982 Steeple Drive
Appleton, WI 54913

Dear Mr. Korth,

Enclosed is our "Site Investigation Report" concerning the Korth Property site at 1629 West Washington Street in Appleton, 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.

Based on the direct contact exceedances (PAH's), these areas will need to be addressed with a cap maintenance plan or by excavation. A Risk Assessment Approach for cPAH's could be used to potentially eliminate several of the sampled areas. Also, due to the low level NR140 exceedences in groundwater, additional groundwater monitoring may be required.

Per WDNR response to this report, METCO will proceed with the next step of 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: Tom Verstegen – WDNR

EXECUTIVE SUMMARY

Schmidt Oil operated a bulk petroleum storage facility on the subject property from approximately the 1950s until the 1970s. A 1970 Sanborn Fire Insurance Map shows seven gasoline storage tanks and a pump house on the property. Korth Upholstery purchased the property in 1981 and built the existing building. During construction of the building, a large fuel oil UST (est. 20,000-gallons) was removed from the subject property.

On April 20, 1995, Environmental Assessments, Inc. completed one soil boring in the area of a removed fuel oil UST. One soil sample was collected from the soil boring for GRO, DRO, PVOC, 1,2-DCA, and PAH analysis. The analytical results showed 196 ppm GRO, 123 ppm DRO, and several low level detects for PVOC and PAH compounds. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.

Numerous other LUST, ERP, and Spill sites exist within the City of Appleton. The closest of these, Aratex Services, Inc. (BRRTS# 03-45-001068), is located approximately 225 feet to the northeast of the subject property. In the 1980s, a petroleum storage tank was removed from the adjacent property to the west. The environmental status of this property is not known.

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:

- Local unconsolidated materials generally consist of silt/clay to sandy silt/clay with some gravel from surface to at least 14 feet below ground surface (bgs). Thin lenses of peat to clayey peat were encountered in several borings at depths ranging from 3 to 9 feet bgs. Several borings showed lenses of sand to silty sand varying in thickness from 0.5 to 2 feet at depths ranging from 4 to 8 feet bgs. Fill material consisted of sand, silt, and gravel was encountered across the site from surface to depths ranging from 0.5 feet to 4 feet bgs.

- Bedrock was not encountered during the site investigation, but limestone/dolomite bedrock is expected to exist at approximately 25-75 feet bgs, based on local well construction reports.

- According to data collected from the monitoring wells, the depth to groundwater ranges from 4.16 to 5.83 feet bgs depending on well location and 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 northeast.

- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's, exists in the area of the removed UST system, former gasoline AST's, and loading rack. This area appears to measure up to 157 feet long, up to 88 feet wide at its widest point, and up to 5 feet thick. An area of unsaturated soil contamination exceeding NR720 Non-Industrial Direct Contact RCL values also exists in the area of the removed UST system and appears to measure up to 71 feet long, up to 50 feet wide, and up to 4 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/AST systems and has migrated toward the northeast. This plume is approximately 114 feet long and up to 86 feet wide at its widest point.

- Based on the most recent groundwater analytical results, all five monitoring wells (MW-1 thru MW-5) show low level 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, risk to any municipal wells, or risk to any 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.

Based on the direct contact exceedances (PAH's), these areas will need to be addressed with a cap maintenance plan or by excavation. A Risk Assessment Approach for cPAH's could be used to potentially eliminate several of the sampled areas. Also, due to the low level NR140 exceedences in groundwater, additional groundwater monitoring may be required.

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

Robert Korth
N2982 Steeple Drive
Appleton, WI 54913
(920) 470-1092

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 548th Street
Menomonie, WI 54751
(715) 556-2604

1.3 Site Location

Site Address:

1629 West Washington Street
Appleton, Wisconsin

Latitude and Longitude:
44° 15' 47" N and 88° 25' 57" W

WTM Coordinates:
645150, 422257

Please note that the WDNR RR sites map shows the site location to be on the adjacent property to the west. The above coordinates are the correct location.

Township/Range:
SW ¼, SW ¼, Section 27, Township 21 North, Range 17 East, Outagamie County

1.4 Site History

Schmidt Oil operated a bulk petroleum storage facility on the subject property from approximately the 1950s until the 1970s. A 1970 Sanborn Fire Insurance Map shows seven gasoline storage tanks and a pump house on the property. Korth Upholstery purchased the property in 1981 and built the existing building. During construction of the building, a large fuel oil UST (est. 20,000-gallons) was removed from the subject property.

On April 20, 1995, Environmental Assessments, Inc. completed one soil boring in the area of a removed fuel oil UST. One soil sample was collected from the soil boring for GRO, DRO, PVOC, 1,2-DCA, and PAH analysis. The analytical results showed 196 ppm GRO, 123 ppm DRO, and several low level detects for PVOC and PAH compounds. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.

Numerous other LUST, ERP, and Spill sites exist within the City of Appleton. The closest of these, Aratex Services, Inc. (BRRTS# 03-45-001068), is located approximately 225 feet to the northeast of the subject property. In the 1980s, a petroleum storage tank was removed from the adjacent property to the west. The environmental status of this property is not known.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Appleton is located in the central portion of the Fox-Wolf River Basin. This area is characterized by relatively flat plains with some generally north-south ridges. The topography and drainage of this area is controlled by the topography of the bedrock surface and modified by glacial erosion and deposition.

The elevation of the site is approximately 815 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 tan to brown to red to reddish brown silt/clay to sandy silt/clay with some gravel from surface to at least 14 feet below ground surface (bgs). Thin lenses of black peat to clayey peat were encountered in several borings at depths ranging from 3 to 9 feet bgs. Several borings showed lenses of sand to silty sand varying in thickness from 0.5 to 2 feet at depths ranging from 4 to 8 feet bgs. Fill material consisted of sand, silt, and gravel was encountered across the site from surface to depths ranging from 0.5 feet to 4 feet bgs.

Bedrock was not encountered during the site investigation, but limestone/dolomite bedrock is expected to exist at approximately 25-75 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 4.16 to 5.83 feet bgs depending on well location and 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 northeast. 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 PAL comes into contact with a sanitary sewer lateral, storm sewer lateral, and a water lateral. Sewer and water lateral lines typically exist at approximately 5-8 feet bgs and are backfilled with native soil. Based on this and because groundwater contaminant levels only exceed the NR140 PAL in this area, these do not appear to be preferential contaminant migration pathways.

The extent of petroleum contamination in soil does extend up to and underneath the southwest corner of the on-site building at depths ranging from 3.5 to 6 feet bgs. However, contaminant levels in this area are relatively low, showing low level NR720 Groundwater RCL exceedances. The extent of petroleum contamination in groundwater exceeding the NR140 PAL also extends underneath the southwest corner and northwest corner of the building. Groundwater exists at approximately 5 feet bgs across the site. Due to the low-level exceedances in soil and groundwater near the building, the risk of vapor intrusion appears unlikely.

Municipal and Private Water Supply Wells

The subject property and surrounding properties are all served by the City of Appleton municipal water supply, which draws it's potable water from Lake Winnebago. METCO is not aware of any private water supply wells in the area.

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 the Fox River, which exists approximately 1 mile to the southeast 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) Collect site background information.

2) On January 4, 2017, METCO prepared a LUST Investigation Field Procedures Workplan.

3) On April 10-11, 2017, METCO completed twenty-two Geoprobe borings (G-1 thru G-22). Fifty-seven soil samples and twenty-one groundwater samples were collected from the borings for field and/or laboratory analysis.

4) On July 10-11, 2017, METCO completed five soil borings which were converted to monitoring wells (MW-1 thru MW-5). Fifteen soil samples were collected for field and/or laboratory analysis. Upon completion, the monitoring wells were properly developed.

5) On September 20, 2017, METCO personnel collected groundwater samples from five monitoring wells (MW-1 thru MW-5) for field and laboratory analysis. The monitoring well network was properly surveyed to feet mean sea level (msl) at this time. METCO also conducted slug tests on three of the monitoring wells (MW-1, -4, and -5).

6) On December 12, 2017, DKS Transport Services, LLC picked up and properly disposed of 4 drums of soil cuttings and 1 drum of purge water.

7) On December 14, 2017, METCO personnel collected groundwater samples from five monitoring wells (MW-1 thru MW-5) for field and laboratory analysis.

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 April 10-11, 2017, during the Geoprobe Project, twenty-two soil borings were completed with fifty-seven soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, Naphthalene, PAH, and/or Lead).

On July 10-11, 2017, during the Drilling Project, five soil borings were completed with fifteen soil samples collected for field and/or laboratory analysis (PID, DRO, GRO, PVOC, Naphthalene, TCLP-Lead, and TCLP-Benzene).

Soil analytical results are summarized in the Soil Analytical Results Tables with exceedances of the NR720 Groundwater RCL and/or Non-Industrial Direct Contact 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.

Groundwater Sampling Data

On April 10-11, 2017, during the Geoprobe Project, twenty-one groundwater samples were collected from soil borings G-1 thru G-17, G-19, G-20, G-21, and G-22 for laboratory analysis (PVOC and Naphthalene).

On July 10-11, 2017, during the Drilling Project, five monitoring wells (MW-1 thru MW-5) were installed and properly developed.

On September 20, 2017, METCO personnel collected groundwater samples from five monitoring wells (Round 1) for field and laboratory analysis (VOC's, PAH, 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 wells. The monitoring well network was properly surveyed to feet mean sea level (msl) at this time. METCO also conducted slug tests on three of the monitoring wells (MW-1, -4, and -5).

On December 14, 2017, METCO personnel collected groundwater samples from five monitoring wells (Round 2) for field and laboratory analysis (PVOC, PAH, and Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were collected from all sampled monitoring wells.

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 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 September 20, 2017, METCO conducted slug tests on monitoring wells MW-1, MW-4 and MW-5. 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) = 1.11E-03 cm/sec
Transmissivity = 3.15E-01 cm^2/sec
Flow Velocity (V=KI/n) = 36.34583 m/yr

Monitoring Well MW-4
Hydraulic Conductivity (K) = 1.83E-03 cm/sec
Transmissivity = 4.52E-01 cm^2/sec
Flow Velocity (V=KI/n) = 59.97604 m/yr

Monitoring Well MW-5
Hydraulic Conductivity (K) = 9.91E-04 cm/sec
Transmissivity = 2.57E-01 cm^2/sec
Flow Velocity (V=KI/n) = 32.54167 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1, MW-4 and MW-5 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

Local unconsolidated materials generally consist of silt/clay to sandy silt/clay with some gravel from surface to at least 14 feet below ground surface (bgs). Thin lenses of peat to clayey peat was encountered in several borings at depths ranging from 3 to 9 feet bgs. Several borings showed lenses of sand to silty sand varying in thickness from 0.5 to 2 feet at depths ranging from 4 to 8 feet bgs. Fill material consisted of sand, silt, and gravel was encountered across the site from surface to depths ranging from 0.5 feet to 4 feet bgs.

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An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's, exists in the area of the removed UST system, former gasoline AST's, and loading rack. This area appears to measure up to 157 feet long, up to 88 feet wide at its widest point, and

up to 5 feet thick. An area of unsaturated soil contamination exceeding NR720 Non-Industrial Direct Contact RCL values also exists in the area of the removed UST system and appears to measure up to 71 feet long, up to 50 feet wide, and up to 4 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/AST systems and has migrated toward the northeast. This plume is approximately 114 feet long and up to 86 feet wide at its widest point.

Based on the most recent groundwater analytical results, all five monitoring wells (MW-1 thru MW-5) show low level 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, risk to any municipal wells, or risk to any 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.

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 Korth 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

Based on the direct contact exceedances (PAH's), these areas will need to be addressed with a cap maintenance plan or by excavation. A Risk Assessment Approach for cPAH's could be used to potentially eliminate several of the sampled areas. Also, due to the low level NR140 Enforcement Standard exceendences in groundwater, additional groundwater monitoring may be required.

5.0 REFERENCES

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

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

Geologic Logs and Well Constructor Reports, Wisconsin Geological and Natural History Survey, Madison, Wisconsin.

Nielson, D.M., 1991, Practical Handbook of Groundwater Monitoring, Chelsea, Michigan.

Olcott, P. G., 1968, Water Resources of Wisconsin – Fox-Wolf River Basin, Hydrologic Investigations, Atlas HA-321, U.S. Geological Survey, Washington D.C.

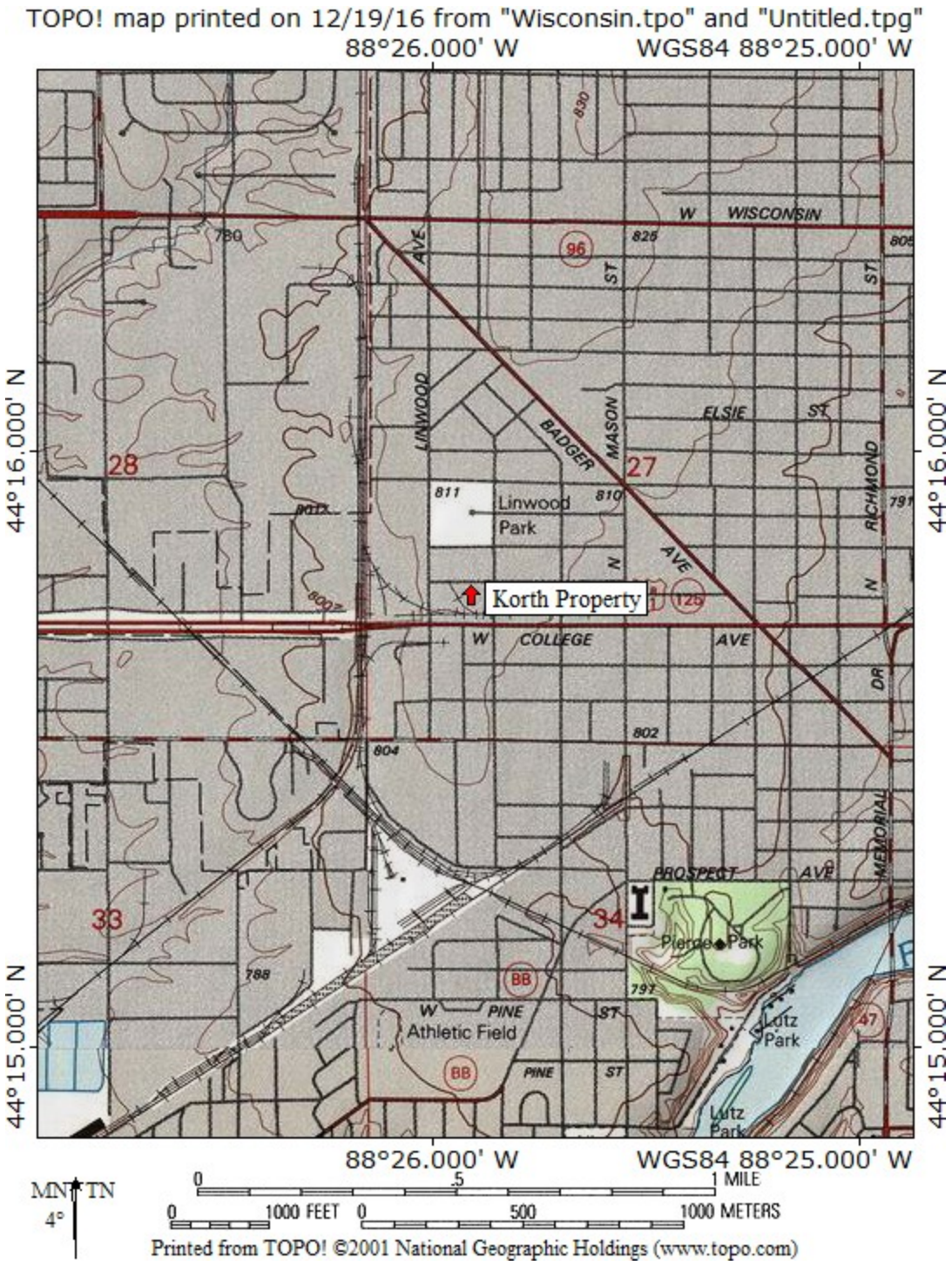
Seamless USGS Topographic Maps on CD-ROM, 2001, National Geographic Holdings, Inc., San Francisco, California.

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

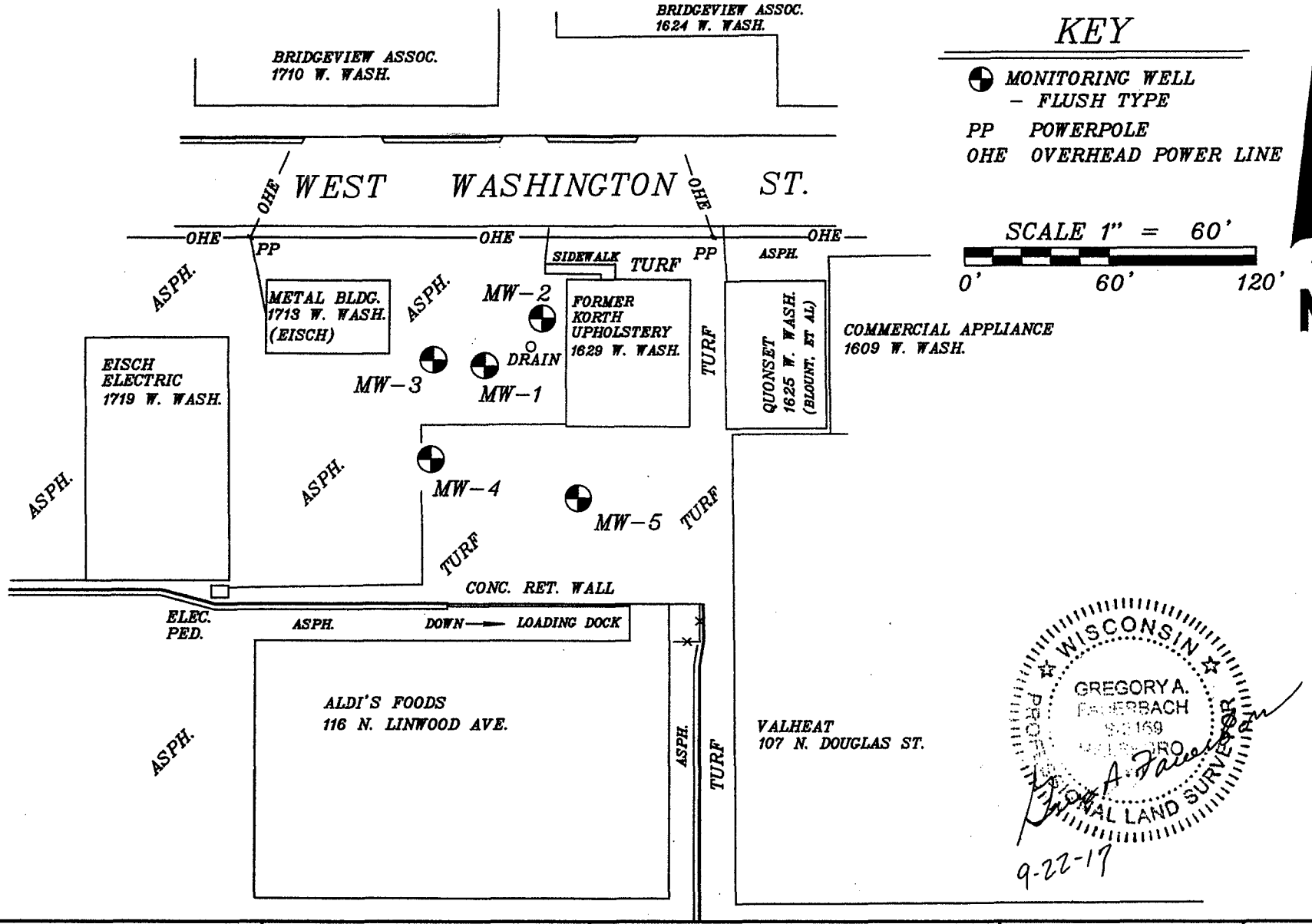
Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

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

6.0 FIGURES



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



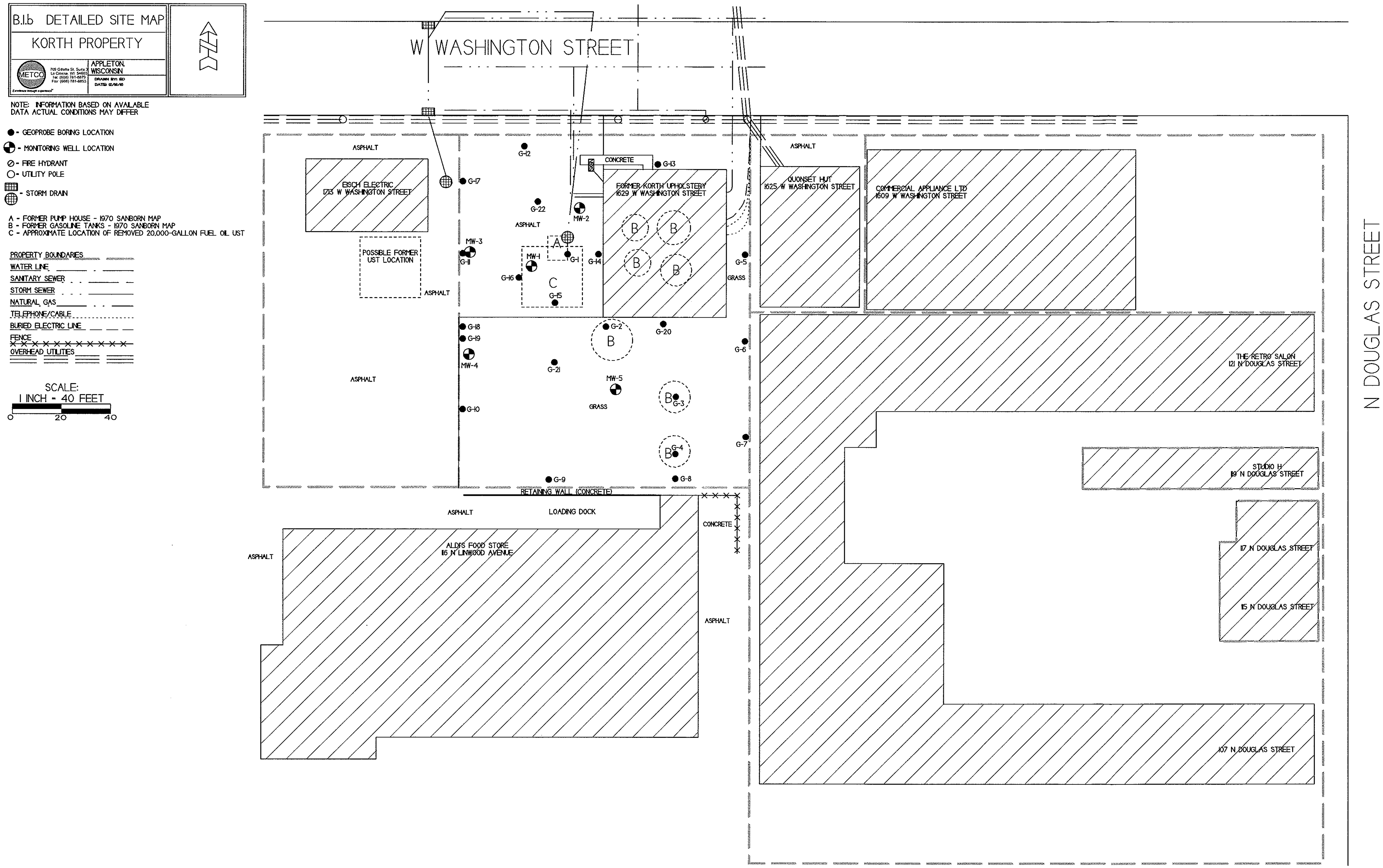
DRAWN BY: GREG FAUERBACH DATE: 9-20-17 FIELD DWG. NO.: 54717	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: KORTH PROPERTY 1629 W. WASHINGTON ST. APPLETON, WI 54914	SHEET NAME LOCATION MAP	PAGE 1 OF 1

WELL	OUTAGAMIE COUNTY COORD. SYSTEM NAD83(2011) NORTH	EAST	TOP OF WELL ELEVATION (NAVD 88)	TOP OF PVC CASING ELEVATION (NAVD 88)
MW-1	562597.86	820759.94	813.53'	813.02'
MW-2	562617.23	820783.53	813.31'	812.89'
MW-3	562600.33	820739.11	813.9'	813.47'
MW-4	562559.35	820737.97	814.33'	813.79'
MW-5	562543.23	820798.53	813.94'	813.30'

WISCONSIN
GREGORY A. FAUERBACH
S-2169
HILLSBORO, WI
PROFESSIONAL LAND SURVEYOR

9-22-17

DRAWN BY: GREG FAUERBACH DATE: 9-20-17 FIELD DWG. NO.: 54717	REVISIONS	PROJECT: KORTH PROPERTY 1629 W. WASHINGTON ST. APPLETON, WI 54914	SHEET NAME DATA SHEET	PAGE 1 OF 1
	FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363			



B.I.b DETAILED SITE MAP
KORTH PROPERTY
METCO
709 Gillette St, Suite 3
La Crosse, WI 54603
Tel. (608) 781-8879
Fax (608) 781-8893
APPLETON, WISCONSIN
DRAWN BY: ED
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER
- GEOPROBE BORING LOCATION
- MONITORING WELL LOCATION
- FIRE HYDRANT
- UTILITY POLE
- STORM DRAIN
A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST
PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES
SCALE: 1 INCH - 40 FEET
0 20 40
W WASHINGTON STREET
N DOUGLAS STREET
EISCH ELECTRIC 1713 W WASHINGTON STREET
POSSIBLE FORMER UST LOCATION
FORMER KORTH UPHOLSTERY 1629 W WASHINGTON STREET
QUONSET HUT 1625 W WASHINGTON STREET
COMMERCIAL APPLIANCE LTD 1609 W WASHINGTON STREET
THE RETRO SALON 121 N DOUGLAS STREET
STUDIO H 119 N DOUGLAS STREET
117 N DOUGLAS STREET
115 N DOUGLAS STREET
107 N DOUGLAS STREET
ALDI'S FOOD STORE 116 N LINWOOD AVENUE
RETAINING WALL (CONCRETE)
LOADING DOCK
CONCRETE
ASPHALT
GRASS
MW-1
MW-2
MW-3
MW-4
MW-5
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-20
G-21
G-22

B.2.a
SOIL CONTAMINATION
KORTH PROPERTY

METCO
700 Gibbs St, Suite 3
La Crosse, WI 54603
Tel (608) 781-5875
Fax (608) 781-5853

APPLETON,
WISCONSIN

DRAWN BY: BD
DATE: 12/16/10

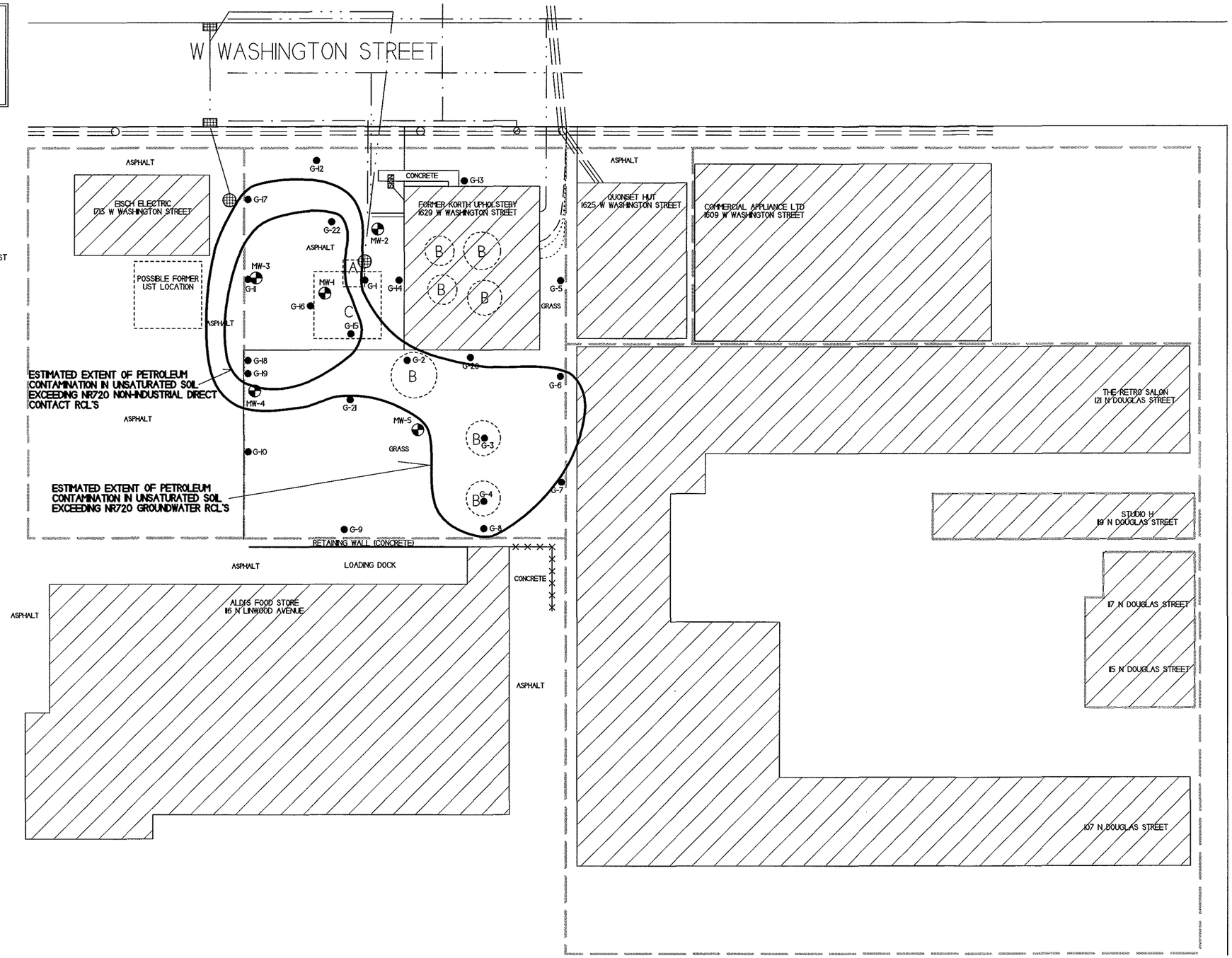
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

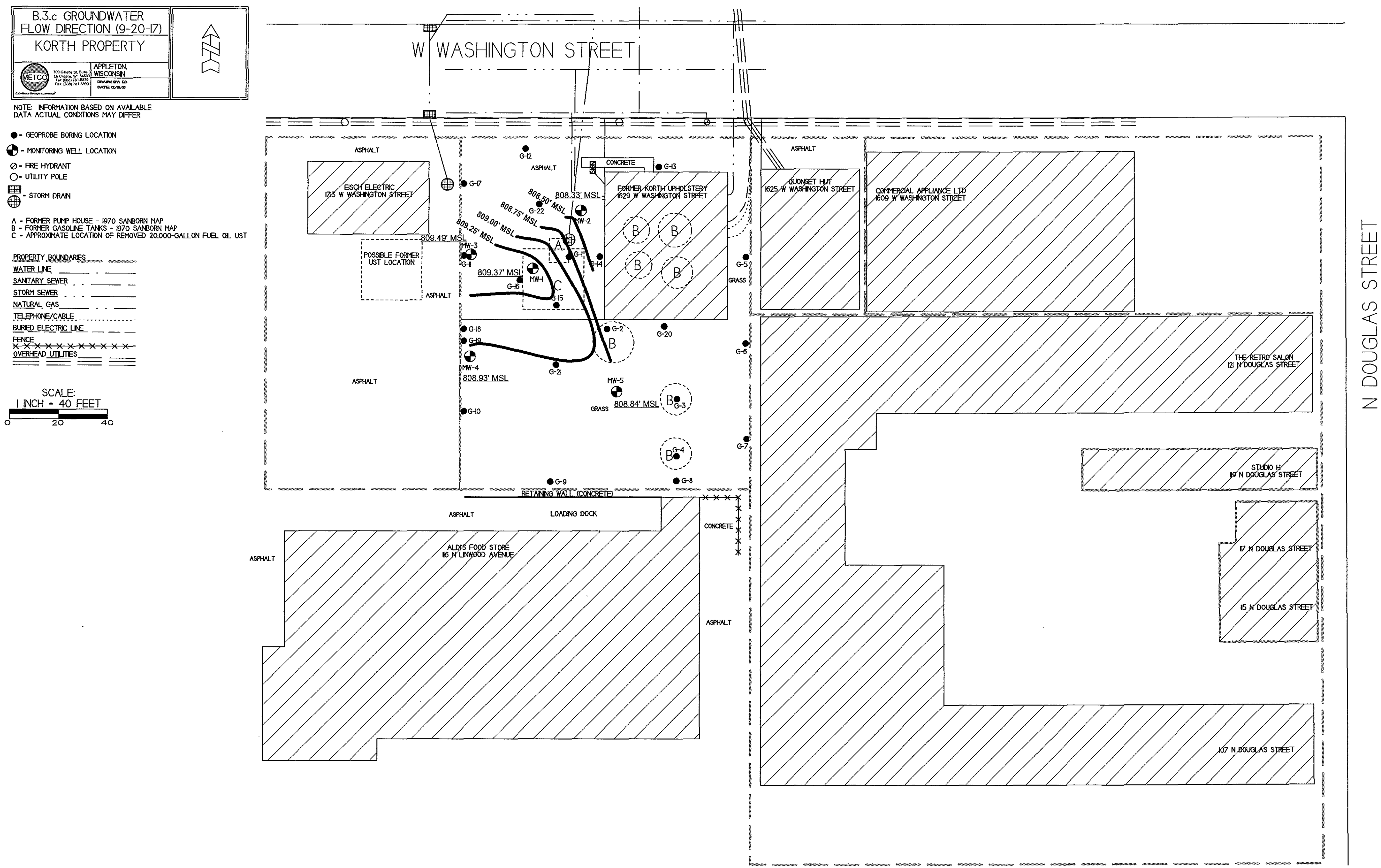
- ● - GEOPROBE BORING LOCATION
- ◐ - MONITORING WELL LOCATION
- ⊘ - FIRE HYDRANT
- ○ - UTILITY POLE
- ▦ - STORM DRAIN
- ⊕ - STORM DRAIN

A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST

PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES

SCALE:
1 INCH = 40 FEET
0 20 40




B.3.c GROUNDWATER FLOW DIRECTION (9-20-17)
KORTH PROPERTY
METCO
709 Gillette St. Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
APPLETON, WISCONSIN
DRAWN BY: ED
N
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER
- GEOPROBE BORING LOCATION
- MONITORING WELL LOCATION
- FIRE HYDRANT
- UTILITY POLE
- STORM DRAIN
A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST
PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES
SCALE:
1 INCH = 40 FEET
0
20
40
W WASHINGTON STREET
N DOUGLAS STREET
EISCH ELECTRIC
1713 W WASHINGTON STREET
POSSIBLE FORMER UST LOCATION
FORMER KORTH UPHOLSTERY
1629 W WASHINGTON STREET
QUONSET HUT
1625 W WASHINGTON STREET
COMMERCIAL APPLIANCE LTD
1609 W WASHINGTON STREET
THE RETRO SALON
121 N DOUGLAS STREET
STUDIO H
119 N DOUGLAS STREET
117 N DOUGLAS STREET
115 N DOUGLAS STREET
107 N DOUGLAS STREET
ALDI'S FOOD STORE
116 N LINWOOD AVENUE
RETAINING WALL (CONCRETE)
LOADING DOCK
CONCRETE
ASPHALT
GRASS
808.33' MSL
808.50' MSL
808.75' MSL
809.00' MSL
809.25' MSL
809.49' MSL
809.37' MSL
808.93' MSL
808.84' MSL
MW-1
MW-2
MW-3
MW-4
MW-5
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-20
G-21
G-22
A
B
C

B. 3. c GROUNDWATER FLOW DIRECTION 12-14-17

KORTH PROPERTY

METCO
709 Gillette St. Suite 3
La Crosse, WI 54603
Tel: (608) 781-8870
Fax: (608) 781-8892
"Excellence through experience"

APPLETON
WISCONSIN

DRAWN BY: SD
DATE: 12/18/17

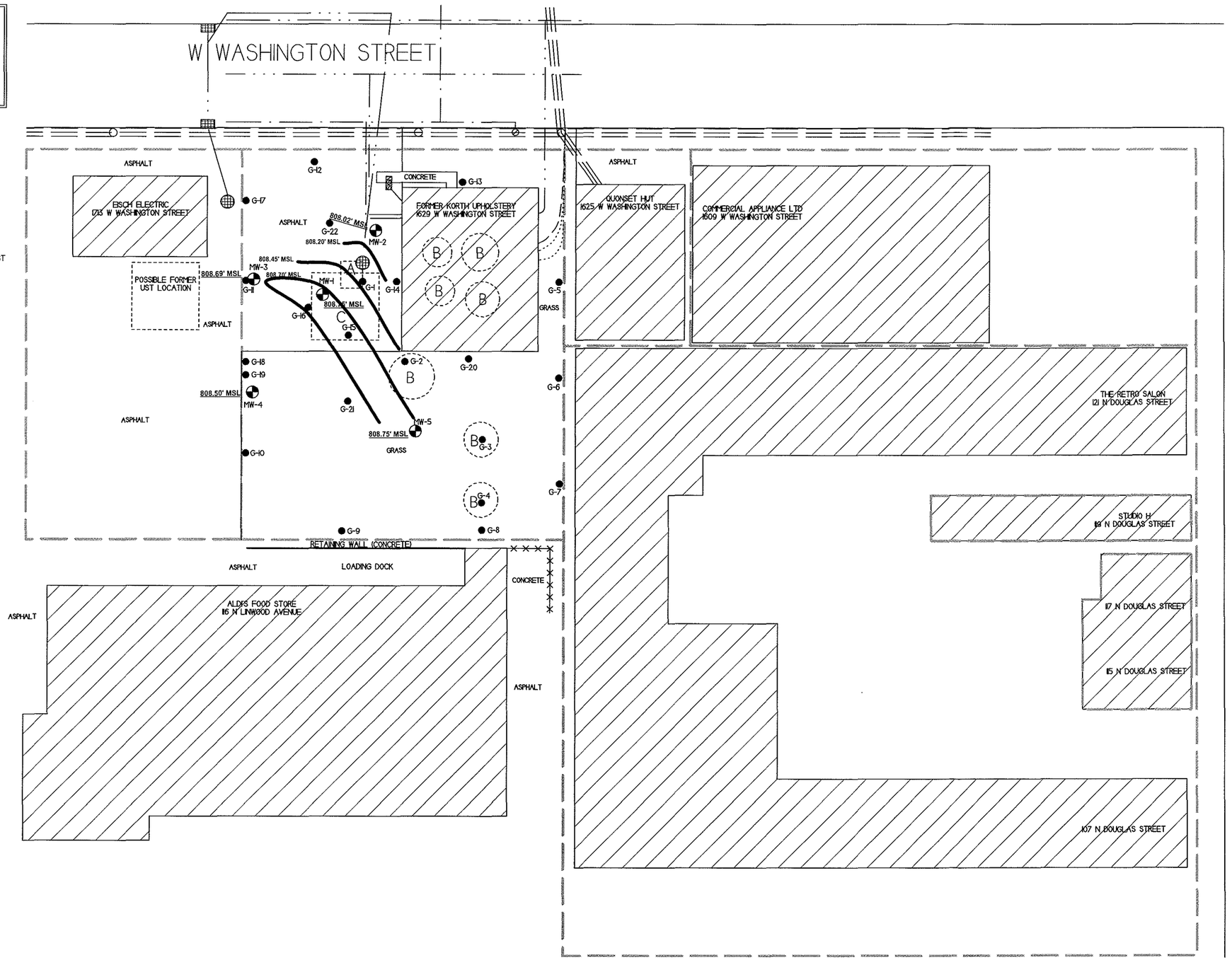
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- ● - GEOPROBE BORING LOCATION
- ◔ - MONITORING WELL LOCATION
- ⊘ - FIRE HYDRANT
- ○ - UTILITY POLE
- ▦ - STORM DRAIN
- ⊕ - STORM DRAIN

A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST

PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES

SCALE:
1 INCH = 40 FEET
0 20 40



B.3.b GROUNDWATER ISOCONCENTRATION (12/14/17)

KORTH PROPERTY

METCO
709 Gillette St. Suite 5
La Crosse, WI 54603
Tel: (608) 781-6400
Fax: (608) 781-6853
"Excellence through experience"

APPLETON, WISCONSIN
DRAWN BY: EJD
DATE: 12/20/18

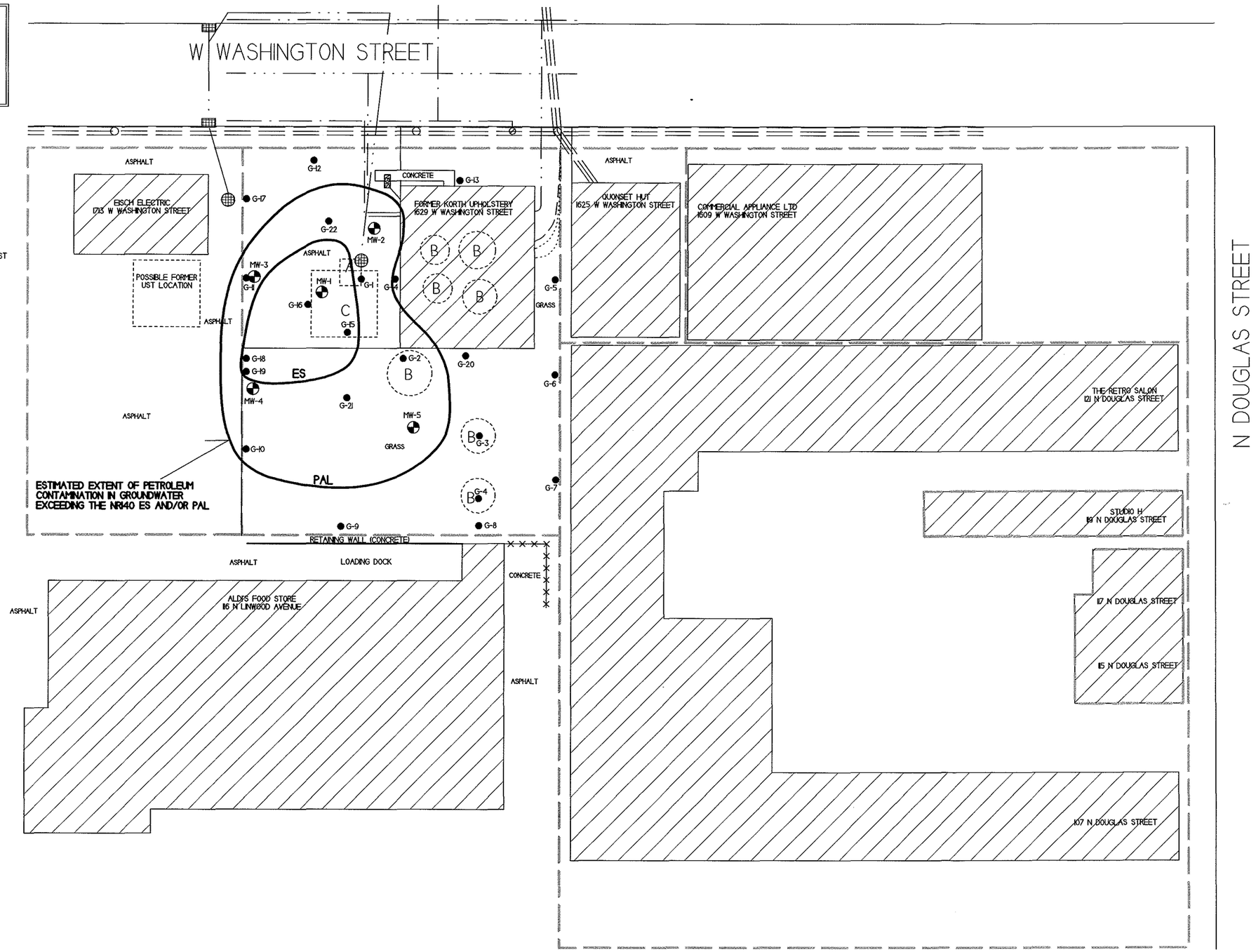
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

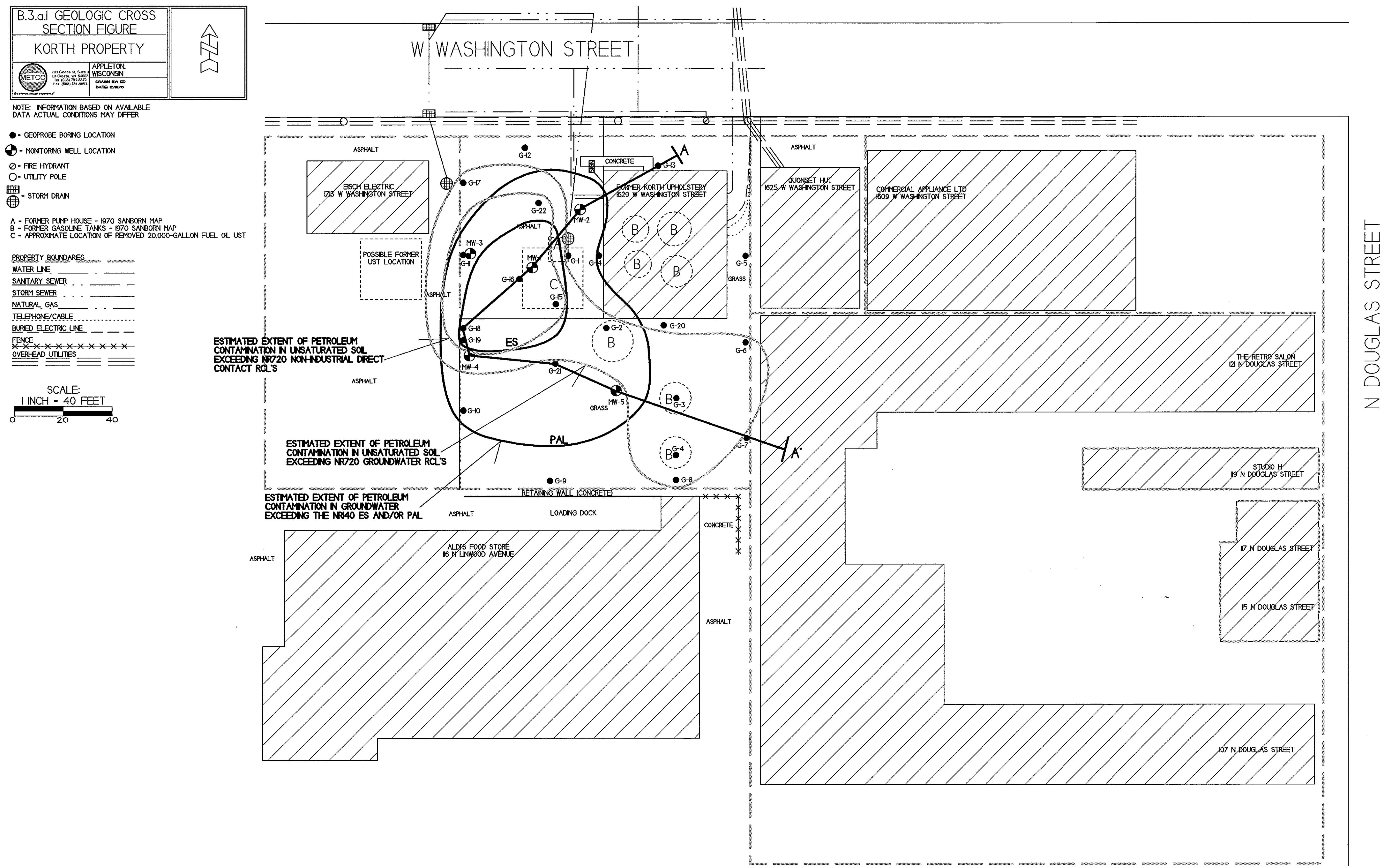
- ● - GEOPROBE BORING LOCATION
- ◒ - MONITORING WELL LOCATION
- Ø - FIRE HYDRANT
- ○ - UTILITY POLE
- ▦ - STORM DRAIN

A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST

PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES

SCALE:
1 INCH = 40 FEET
0 20 40





B.3.a.I GEOLOGIC CROSS SECTION FIGURE
KORTH PROPERTY
METCO
709 Gillette St, Suite 3 La Crosse, WI 54603 Tel (608) 781-8879 Fax (608) 781-8893
APPLETON, WISCONSIN
DRAWN BY: ED
DATE: 12/19/16
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER
- GEOPROBE BORING LOCATION
- MONITORING WELL LOCATION
- FIRE HYDRANT
- UTILITY POLE
- STORM DRAIN
A - FORMER PUMP HOUSE - 1970 SANBORN MAP
B - FORMER GASOLINE TANKS - 1970 SANBORN MAP
C - APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST
PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES
SCALE:
1 INCH - 40 FEET
0
20
40
W WASHINGTON STREET
N DOUGLAS STREET
ASPHALT
EISCH ELECTRIC
1713 W WASHINGTON STREET
POSSIBLE FORMER UST LOCATION
CONCRETE
FORMER KORTH UPHOLSTERY
1629 W WASHINGTON STREET
QUONSET HUT
1625 W WASHINGTON STREET
COMMERCIAL APPLIANCE LTD
1609 W WASHINGTON STREET
GRASS
ES
PAL
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING THE NR140 ES AND/OR PAL
G-1
G-2
G-3
G-4
G-5
G-6
G-7
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-20
G-21
G-22
MW-1
MW-2
MW-3
MW-4
MW-5
A
A'
RETAINING WALL (CONCRETE)
LOADING DOCK
CONCRETE
ALDI'S FOOD STORE
16 N LINWOOD AVENUE
THE RETRO SALON
121 N DOUGLAS STREET
STUDIO H
119 N DOUGLAS STREET
117 N DOUGLAS STREET
115 N DOUGLAS STREET
107 N DOUGLAS STREET

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

KORTH PROPERTY

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

APPLETON, WISCONSIN

DRAWN BY: ED
DATE: 12/19/16

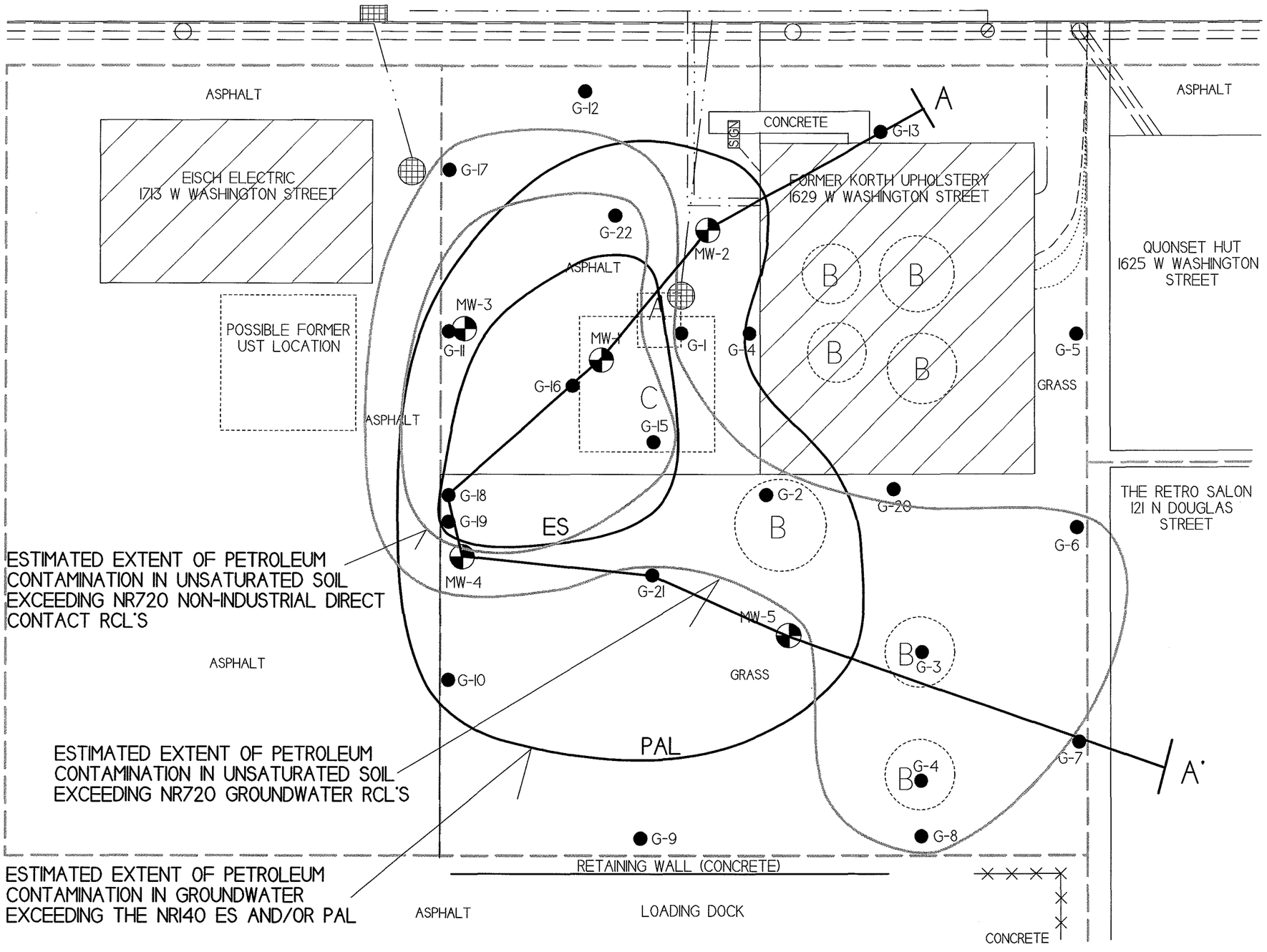
NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- ● = GEOPROBE BORING LOCATION
- = MONITORING WELL LOCATION
- ⊘ = FIRE HYDRANT
- ◯ = UTILITY POLE
- = STORM DRAIN

A = FORMER PUMP HOUSE - 1970 SANBORN MAP
B = FORMER GASOLINE TANKS - 1970 SANBORN MAP
C = APPROXIMATE LOCATION OF REMOVED 20,000-GALLON FUEL OIL UST

PROPERTY BOUNDARIES
WATER LINE
SANITARY SEWER
STORM SEWER
NATURAL GAS
TELEPHONE/CABLE
BURIED ELECTRIC LINE
FENCE
OVERHEAD UTILITIES

SCALE:
1 INCH = 20 FEET
0 20



B.3.a.3 GEOLOGIC CROSS SECTION FIGURE

KORTH PROPERTY

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
"Excellence through experience"

APPLETON, WISCONSIN

DRAWN BY: JJ
DATE: 3/6/18

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

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:
- GEOPROBE PROJECT (4/10-11/17)
- DRILLING PROJECT (7/10-11/17)
- ROUND 2 GROUNDWATER SAMPLING (12/14/17)

⊕ - MONITORING WELL LOCATION
● - SOIL BORING LOCATION
✕ - SOIL SAMPLING LOCATION
▼ - WATERTABLE (BASED ON ALL-TIME LOW WATER TABLE

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 VARIES TOWARD THE NORTHEAST AND SOUTHWEST.

ND - NO DETECT
PID - PHOTO IONIZATION DETECTOR
GRO - GASOLINE RANGE ORGANICS
DRO - DIESEL RANGE ORGANICS
PAH - POLYNUCLEAR AROMATIC HYDROCARBONS
PVOC - PETROLEUM VOLATILE ORGANIC COMPOUNDS
B - BENZENE
BF - BENZO(B)FLUORANTHENE
C - CHRYSENE
E - ETHYLBENZENE
MTBE - METHYL-TERT-BUTYL-ETHER
N - NAPHTHALENE
T - TOLUENE
TMB - TRIMETHYLBENZENE
TPH - TOTAL PETROLEUM HYDROCARBONS
X - XYLENE

HORIZONTAL SCALE:
1 INCH - 20 FEET
0 20

VERTICAL SCALE:
1 INCH - 4 FEET
0 4

BROWN TO BLACK VERY FINE TO MEDIUM GRAINED SAND WITH SOME GRAVEL

TAN TO BROWN TO REDDISH BROWN SILT/CLAY TO SANDY SILT/CLAY WITH SOME GRAVEL

BLACK PEAT TO CLAYEY PEAT

FILL MATERIAL (SAND, SILT, AND GRAVEL)

A NORTH — A' SOUTH

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S.

815.00' MSL
810.00' MSL
805.00' MSL
800.00' MSL
795.00' MSL

FORMER PUMP HOUSE
APPROXIMATE LOCATION OF REMOVED FUEL OIL UST
FORMER GASOLINE TANKS
FORMER KORTH UPHOLSTERY
THE RETRO SALON

GRASS G-13 — G-13-1 3.5 FEET 1.2 PID 5.26 LEAD ND PVOC/N ND PAH — G-13-2 7 FEET 12.3 PID 0.92 N 0.113 TMB — G-13-3 10 FEET 11.6 PID

MW-2 ASPHALT — MW-2-1 3.5 FEET 1 PID — MW-2-2 8 FEET 2.3 PID — MW-2-3 12 FEET 5.1 PID

MW-1 — MW-1-1 3.5 FEET 279 PID — MW-1-2 8 FEET 319 PID 34.8 DRO 13.6 GRO 0.59 N 0.10 TMB — MW-1-3 13 FEET 3.9 PID

G-16 ASPHALT — G-16-1 3.5 FEET 38 PID 38 LEAD 0.34 B 0.214 BF 0.53 BF 0.46 C 0.91 E 4.7 N 1.04 T 13.32 TMB 4.27 X — G-16-2 7 FEET 85.1 PID 0.41 B 0.36 E 18 N 0.32 T 4.4 TMB 2.09 X — G-16-3 10 FEET 42.3 PID

AUGER REFUSAL NO RECOVERY

G-18 G-19 MW-4 GRASS — G-19-1 3.5 FEET 54.7 PID 9.17 LEAD 1.42 E 20.40 N 5.29 TMB 1.88 X — G-19-2 6.5 FEET 159 PID 0.045 E 5.90 N 0.094 13.5 TMB — G-19-3 10 FEET 20.3 PID

MW-4-1 3.5 FEET 9.2 PID — MW-4-2 8 FEET 61 PID — MW-4-3 12 FEET 9.9 PID

G-21 GRASS — G-21-1 3.5 FEET 1.7 PID 26 LEAD 0.0243 N PAH DETECTS — G-21-2 6 FEET 52.6 PID

MW-5 GRASS — MW-5-1 3.5 FEET 1.4 PID — MW-5-2 8 FEET 87 PID — MW-5-3 12 FEET 7.3 PID

G-3 GRASS — G-3-1 3.5 FEET 1.7 PID 17.4 LEAD 0.10 B 0.043 E 0.48 N 0.184 T 0.651 TMB 0.370 X — G-3-2 6.5 FEET 2.9 PID 0.142 B 0.249 E 0.57 N 0.263 T 0.848 TMB 1.135 X — G-3-3 10 FEET 1.7 PID

G-7 — G-7-1 3 FEET 2.7 PID 25.4 LEAD 0.071 N — G-7-2 6 FEET 2.4 PID

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S.

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL AND GROUNDWATER EXCEEDING NR720 RCL'S AND THE NR140 ES AND/OR PAL.

G-13-W
<0.17 B
0.36 E
<0.82 MTBE
<2.17 N
<0.67 T
<2.05 TMB
0.55-2.11 X

MW-2
<0.9 LEAD
0.83 B
<0.56 E
<0.43 MTBE
1.22 N
0.54 T
1.76 TMB
<1.71 X
PAH DETECTS

MW-1
<0.9 LEAD
5.0 B
0.67 E
<0.43 MTBE
0.50 N
<0.33 T
0.66-1.22 TMB
<1.71 X
PAH DETECTS

G-16-W
66 B
4.0 E
<4.1 MTBE
138 N
<3.35 T
<10.25 TMB
<9.75 X

G-19-W
5.8 B
1.85 E
<0.82 MTBE
133 N
<0.67 T
<2.05 TMB
1.06-2.62 X

MW-4
<0.9 LEAD
0.40 B
0.0289 BF
0.0213 C
<0.56 E
<0.43 MTBE
0.62 N
0.37 T
<1.14 TMB
<1.71 X

G-21-W
0.21 B
1.59 E
<0.82 MTBE
40 N
<0.67 T
1.69-2.60 TMB
0.43-1.99 X

MW-5
<0.9 LEAD
0.27 B
0.021 BF
<0.56 E
<0.43 MTBE
0.036 N
<0.33 T
<1.14 TMB
<1.71 X

G-3-W
<0.17 B
<0.20 E
<0.82 MTBE
<2.17 N
<0.67 T
<2.05 TMB
<1.95 X

G-7-W
<0.17 B
<0.20 E
<0.82 MTBE
<2.17 N
<0.67 T
<2.05 TMB
<1.95 X

7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.2 Soil Analytical Results Table
Korth Property LUST Site BRRT'S# 03-45-002078

																DIRECT CONTACT PVOC & PAH COMBINED		
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	04/10/17	0.30	2.16	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G1-2	4-8	S	04/10/17	0.80	NOT SAMPLED														
G-2-1	3.5	U	04/10/17	14.60	10.30	NS	NS	<0.125	0.189	<0.125	**4.60**	<0.125	**7.40**	**1.80**	1.032	NS	0	0.0523	8.6E-07
G-2-2	6.0	S	04/10/17	49.60	NS	NS	NS	<0.025	<0.025	<0.025	**2.43**	<0.025	0.106	0.138	0.087	NS			
G-2-3	10.0	S	04/10/17	4.20	NOT SAMPLED														
G-3-1	3.5	U	04/10/17	1.70	17.40	NS	NS	**0.10**	0.043	<0.025	0.48	0.184	0.39	0.261	0.370	NS	0	0.006	1.5E-07
G-3-2	6.5	S	04/10/17	2.90	NS	NS	NS	**0.142**	0.249	<0.025	0.57	0.263	0.62	0.228	1.135	NS			
G-3-3	10.0	S	04/10/17	1.70	NOT SAMPLED														
G-4-1	3.5	U	04/10/17	2.20	13.50	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	6.5	S	04/10/17	2.0	NS	NS	NS	**0.14**	0.203	<0.025	0.49	0.275	0.51	0.249	0.884	NS			
G-4-3	10.0	S	04/10/17	1.90	NOT SAMPLED														
G-5-1	3.5	U	04/10/17	3.70	16.40	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-5-2	7.0	S	04/10/17	2.10	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-3	10.0	S	04/10/17	20.30	NOT SAMPLED														
G-6-1	3.5	U	04/10/17	4.10	17.00	NS	NS	**0.047**	<0.025	<0.025	0.093	0.075	<0.025	<0.025	0.072-0.097	NS	0	0.0011	4.6E-08
G-6-2	5.0	U	04/10/17	1.60	NS	NS	NS	<0.025	0.062	<0.025	0.182	0.079	0.059	0.0308	0.337	NS			
G-6-3	10.0	S	04/10/17	2.70	NOT SAMPLED														
G-7-1	3.0	U	04/10/17	2.70	25.40	NS	NS	<0.025	<0.025	<0.025	0.071	<0.025	<0.025	<0.025	<0.075	NS	0	0.0004	1.3E-08
G-7-2	6.0	S	04/10/17	2.40	NOT SAMPLED														
G-8-1	3.5	U	04/10/17	1.90	**91.00**	NS	NS	**0.39**	0.39	<0.025	0.050	0.256	0.258	0.133	1.423	NS	0	0.02344	3.0E-07
G-8-2	6.0	S	04/10/17	2.30	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	0.036	<0.025	<0.025	0.128	NS			
G-8-3	10.0	S	04/10/17	2.70	NOT SAMPLED														
G-9-1	3.5	U	04/10/17	1.30	3.91	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-9-2	6.0	S	04/10/17	1.60	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-3	10.0	S	04/10/17	1.90	NOT SAMPLED														
G-10-1	3.5	U	04/10/17	4.40	6.68	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.00E+00	
G-10-2	6.5	S	04/10/17	37.80	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-3	10.0	S	04/10/17	2.40	NOT SAMPLED														
G-11-1	3.5	U	04/10/17	1.50	**47.60**	NS	NS	**0.051**	0.199	<0.025	**0.76**	0.137	0.52	0.248	0.674	NS	**2**	0.0426	7.0E-06
G-11-2	5.0	U	04/10/17	149.50	NS	NS	NS	**0.29**	0.67	<0.25	**27.80**	0.35	**2.65**	**3.90**	2.73	NS			
G-12-1	3.5	U	04/10/17	1.40	3.61	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-12-2	7.0	S	04/10/17	2.00	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-12-3	10.0	S	04/10/17	2.10	NOT SAMPLED														
G-13-1	3.5	U	04/10/17	1.20	5.26	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-13-2	7.0	S	04/10/17	12.30	NS	NS	NS	<0.025	<0.025	<0.025	**0.92**	<0.025	0.059	0.054	<0.075	NS			
G-13-3	10.0	S	04/10/17	11.60	NOT SAMPLED														
G-14-1	3.5	U	04/10/17	1.50	1.12	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G14-2	6.0	S	04/10/17	38.70	NS	NS	NS	<0.025	<0.025	<0.025	**3.60**	<0.025	0.181	0.281	0.179	NS			
G-15-1	3.5	U	04/10/17	76.60	3.77	NS	NS	<0.125	0.53	<0.125	**1.92**	0.202	**1.38**	**1.83**	1.41	NS	**6**	0.5642	1.20E-04
G-15-2	8.0	S	04/10/17	109.80	NOT SAMPLED														
G-16-1	3.5	U	04/11/17	38.00	**38.00**	NS	NS	**0.34**	0.61	<0.025	**4.70**	1.04	**3.02**	**10.30**	**4.27**	NS	**1**	0.1902	5.3E-06
G-16-2	7.0	S	04/11/17	85.10	NS	NS	NS	**0.41**	0.36	<0.025	**18.00**	0.32	**1.74**	**2.66**	2.09	NS			
G-16-3	10.0	S	04/11/17	42.30	NOT SAMPLED														
G-17-1	3.5	U	04/11/17	1.70	**29.20**	NS	NS	<0.025	<0.025	<0.025	0.162	0.044	0.047	<0.025	<0.075	NS	0	0.0078	1.1E-06
G-17-2	7.0	S	04/11/17	42.60	NS	NS	NS	<0.025	<0.025	<0.025	**1.63**	<0.025	0.121	0.168	0.116	NS			
G-17-3	10.0	S	04/11/17	1.30	NOT SAMPLED														
G-19-1	3.5	U	04/11/17	54.70	9.17	NS	NS	<0.025	1.47	<0.025	**20.40**	<0.025	**4.50**	**0.79**	1.88	NS	**1**	0.1317	3.9E-06
G-19-2	6.5	S	04/11/17	159.00	NS	NS	NS	<0.03	0.045	<0.05	**5.90**	<0.032	<0.025	0.094	<0.116	SEE VOC SHEET			
G-19-3	10.0	S	04/11/17	20.30	NOT SAMPLED														
G-20-1	3.5	U	04/11/17	1.10	15.30	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-20-2	5.5	S	04/11/17	13.90	NS	NS	NS	<0.025	<0.025	<0.025	0.56	<0.025	0.059	0.089	<0.075	NS			
G-20-3	10.0	S	04/11/17	3.90	NOT SAMPLED														
G-21-1	3.5	U	04/11/17	1.70	26.00	NS	NS	<0.025	<0.025	<0.025	0.0243	<0.025	<0.025	<0.025	<0.075	NS	0	0.003	6.6E-07
G-21-2	6.0	S	04/11/17	52.60	NOT SAMPLED														
G-22-1	3.5	U	04/11/17	149.70	4.77	NS	NS	<0.25	**3.50**	<0.25	0.52	0.46	**1.61**	**4.10**	3.10	NS	**1**	0.1419	1.7E-06
G-22-2	7.0	S	04/11/17	56.50	NS	NS	NS	<0.025	0.039	<0.025	**0.81**	<0.025	0.11	0.24	0.188	NS			
G-22-3	10.0	S	04/11/17	27.80	NOT SAMPLED														
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.6582**	**1.11**	**1.38**		**3.96**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.6**	**8.02**	**63.8**	**5.52**	**818**	**219**	**182**	**260**	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					**(800)**	-		**(7.07)**	**(35.4)**	**(282)**	**(24.1)**	**(818)**	**(219)**	**(182)**	**(258)**	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	**1820***	**480***	**8870***	-	**818***	**219***	**182***	**258***	-			

Bold = Groundwater RCL Exceedance
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.

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

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

A.2 Soil Analytical Results Table
Korth Property LUST Site BRRT'S# 03-45-002078

																DIRECT CONTACT PVOC & PAH COMBINED		
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
MW-1-1	3.5	U	07/10/17	279.0	NOT SAMPLED												0		
MW-1-2	8.0	S	07/10/17	319.0	NS	34.8	13.6	<0.025	<0.025	<0.025	0.59	<0.025	0.067	0.032	<0.075	TCLP Lead <0.1 TCLP Benzene <0.05			
MW-1-3	13.0	S	07/10/17	3.9	NS	<10	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-2-1	3.5	U	07/10/17	1.0	NOT SAMPLED												0		
MW-2-3	8.0	S	07/10/17	2.3	NOT SAMPLED														
MW-2-4	12.0	S	07/10/17	5.1	NOT SAMPLED														
MW-3-1	3.5	U	07/10/17	15.4	NOT SAMPLED												0		
MW-3-2	8.0	S	07/10/17	47	NOT SAMPLED														
MW-3-3	12.0	S	07/10/17	16.3	NOT SAMPLED														
MW-4-1	3.5	U	07/10/17	9.2	NOT SAMPLED												0		
MW-4-2	8.0	S	07/10/17	61	NOT SAMPLED														
MW-4-3	12.0	S	07/10/17	9.9	NOT SAMPLED														
MW-5-1	3.5	U	07/10/17	1.4	NOT SAMPLED												0		
MW-5-2	8.0	S	07/10/17	87	NOT SAMPLED														
MW-5-3	12.0	S	07/10/17	7.3	NOT SAMPLED														
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-		(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
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Bold & Asteric * = C-sat Exceedance
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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.

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

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

A.2 Soil Analytical Results Table
(PAH)
Korth Property LUST Site BRRT'S# 03-45-002078

																					DIRECT CONTACT PVOC & PAH COMBINED		
Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,I) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	04/10/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-11-1	3.5	U	04/10/17	1.89	0.51	1.29	0.257	**0.44**	**0.90**	0.56	0.213	**0.47**	**0.126**	0.46	2.71	0.38	9.40	1.31	**0.76**	6.10	1.71	**2**	0.0426	7.0E-06
G-12-1	3.5	U	04/10/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-13-1	3.5	U	04/10/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
G-14-1	3.5	U	04/10/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	6		
G-15-1	3.5	U	04/10/17	4.30	1.32	1.52	**5.4**	**(8.60)**	**13.0**	8.20	4.10	**8.20**	**2.01**	5.30	6.80	**6.30**	**36.0**	9.70	**1.92**	14.3	6.60	**6**	0.5642	1.20E-04
G-16-1	3.5	U	04/11/17	4.00	1.08	1.86	0.228	**0.214**	**0.53**	0.292	0.136	**0.46**	0.078	0.67	5.10	0.161	14.4	23.0	**4.70**	10.4	2.14	**1**	0.1902	5.3E-06
G-17-1	3.5	U	04/11/17	<0.0151	0.0169	0.0301	0.056	0.071	0.156	0.122	0.0266	0.142	0.0274	0.069	0.041	0.063	0.34	0.62	0.162	0.239	0.129	0	0.0078	1.1E-06
G-21-1	3.5	U	04/11/17	<0.0151	<0.0159	<0.0109	0.032	0.044	0.104	0.05	0.0264	0.053	0.0126	0.0315	<0.0179	0.04	0.045	0.075	0.0243	0.0176	0.033	0	0.003	6.6E-07
G-22-1	3.5	U	04/11/17	1.01	0.47	0.68	<0.058	<0.0565	<0.065	<0.057	<0.0735	<0.0605	<0.039	<0.0735	2.06	<0.057	**20.5**	26.7	0.52	2.72	<0.0765	**1**	0.1419	1.7E-06
Groundwater RCL				---	---	**197**	---	**0.47**	**0.4793**	---	---	**0.145**	---	**88.8**	**14.8**	---	---	---	**0.6582**	---	**54.5**			
Non-Industrial Direct Contact RCL				**3590**	---	**17900**	**1.140**	**0.1150**	**1.150**	---	**11.50**	**115**	**0.1150**	**2390**	**2390**	**1.150**	**17.6**	**239**	**5.52**	---	**1790**		**1.00E+00**	**1.00E-05**
Industrial Direct Contact RCL				**(45200)**	---	**(100000)**	**(20.8)**	**(2.11)**	**(21.1)**	---	**(211)**	**(2110)**	**(2.11)**	**(30100)**	**(30100)**	**(21.1)**	**(72.7)**	**(3010)**	**(24.1)**	---	**(22600)**			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance
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
(ppm) = parts per million
PAH = Polynuclear Aromatic Hydrocarbons
PID = Photoionization Detector
VOC's = Volatile Organic Compounds

NM = Not Measured
ND = No Detects

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

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

A.2 Soil Analytical Results Table
Korth Property LUST Site BRRT'S# 03-45-002078

Sampling Conducted on April 11, 2017

VOC's		Bold = Groundwater RCL	Underline & Bold = Non-Industrial Direct Contact RCL	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	**G-19-2**				
Sample Depth/ft.	6.5				
Solids Percent	80.6				
Benzene/ppm	< 0.03	**0.00512**	**1.6**	**(7.07)**	1820*
Bromobenzene/ppm	< 0.025	= =	**342**	**(679)**	= =
Bromodichloromethane/ppm	< 0.074	**0.000326**	**0.418**	**(1.83)**	= =
Bromoform/ppm	< 0.029	**0.00233**	**25.4**	**(113)**	= =
tert-Butylbenzene/ppm	0.08 "J"	= =	**183**	**(183)**	183*
sec-Butylbenzene/ppm	3.7	= =	**145**	**(145)**	145*
n-Butylbenzene/ppm	4.9	= =	**108**	**(108)**	108*
Carbon Tetrachloride/ppm	< 0.016	**0.00388**	**0.916**	**(4.03)**	= =
Chlorobenzene/ppm	< 0.013	= =	**370**	**(761)**	761*
Chloroethane/ppm	< 0.091	**0.227**	= =	= =	= =
Chloroform/ppm	< 0.035	**0.0033**	**0.454**	**(1.98)**	= =
Chloromethane/ppm	< 0.076	**0.0155**	**159**	**(669)**	= =
2-Chlorotoluene/ppm	< 0.015	= =	= =	= =	= =
4-Chlorotoluene/ppm	< 0.018	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 0.058	**0.000173**	**0.008**	**(0.092)**	= =
Dibromochloromethane/ppm	< 0.025	**0.032**	**8.28**	**(38.9)**	= =
1,4-Dichlorobenzene/ppm	< 0.037	**0.144**	**3.74**	**(16.4)**	= =
1,3-Dichlorobenzene/ppm	< 0.037	**1.1528**	**297**	**(193)**	297*
1,2-Dichlorobenzene/ppm	< 0.028	**1.168**	**376**	**(376)**	376*
Dichlorodifluoromethane/ppm	< 0.048	**3.0863**	**126**	**(530)**	= =
1,2-Dichloroethane/ppm	< 0.038	**0.00284**	**0.652**	**(2.87)**	540*
1,1-Dichloroethane/ppm	< 0.034	**0.4834**	**5.06**	**(22.2)**	= =
1,1-Dichloroethene/ppm	< 0.022	**0.00502**	**320**	**(1190)**	1190*
cis-1,2-Dichloroethene/ppm	< 0.032	**0.0412**	**156**	**(2340)**	= =
trans-1,2-Dichloroethene/ppm	< 0.028	**0.626**	**1560**	**(1850)**	= =
1,2-Dichloropropane/ppm	< 0.035	**0.00332**	**0.406**	**(1.78)**	= =
1,3-Dichloropropane/ppm	< 0.025	= =	**1490**	**(1490)**	1490*
trans-1,3-Dichloropropene/ppm	< 0.022		**1510**	**(1510)**	= =
Cis-1,3-Dichloropropene/ppm	< 0.039	0.001	**1210**	**(1210)**	= =
Di-isopropyl ether/ppm	< 0.01	= =	**2260**	**(2260)**	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.023	**0.0000282**	**0.05**	**(0.221)**	= =
Ethylbenzene/ppm	0.045 "J"	**1.57**	**8.02**	**(35.4)**	480*
Hexachlorobutadiene/ppm	< 0.085	= =	**1.63**	**(7.19)**	= =
Isopropylbenzene/ppm	1.78	= =	= =	= =	= =
p-Isopropyltoluene/ppm	0.039 "J"	= =	**162**	**(162)**	162*
Methylene chloride/ppm	< 0.15	**0.00256**	**61.8**	**(1150)**	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.05	**0.027**	**63.8**	**(282)**	8870*
Naphthalene/ppm	**5.9**	**0.6582**	**5.52**	**(24.1)**	= =
n-Propylbenzene/ppm	3.7	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.028	**0.000156**	**0.81**	**(3.6)**	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.028	**0.0534**	**2.78**	**(12.3)**	= =
Tetrachloroethene (PCE)/ppm	< 0.032	**0.00454**	**33**	**(145)**	= =
Toluene/ppm	< 0.032	**1.11**	**818**	**(818)**	818*
1,2,4-Trichlorobenzene/ppm	< 0.064	**0.408**	**24**	**(113)**	= =
1,2,3-Trichlorobenzene/ppm	< 0.066	= =	**62.6**	**(934)**	= =
1,1,1-Trichloroethane/ppm	< 0.03	**0.1402**	= =	= =	= =
1,1,2-Trichloroethane/ppm	< 0.033	**0.00324**	**1.59**	**(7.01)**	= =
Trichloroethene (TCE)/ppm	< 0.041	**0.00358**	**1.3**	**(8.41)**	= =
Trichlorofluoromethane/ppm	< 0.041	**2.2387**	**1230**	**(1230)**	1230*
1,2,4-Trimethylbenzene/ppm	< 0.025	**1.38**	**219**	**(219)**	219*
1,3,5-Trimethylbenzene/ppm	0.094 "J"		**182**	**(182)**	182*
Vinyl Chloride/ppm	< 0.019	**0.000138**	**0.07**	**(2.08)**	= =
m&p-Xylene/ppm	< 0.072	**3.96**	**260**	**(260)**	258*
o-Xylene/ppm	< 0.044				

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

Note: Non-Industrial RCLs apply to this site.

A.1 Groundwater Analytical Table
(Geoprobe)
Korth Property LUST Site BRRT'S# 03-45-002078

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	4/10-11/17	0.28	0.55	<0.82	<2.17	<0.67	<2.05	0.64-2.20
G-2-W	4/10-11/17	<0.17	<0.2	<0.82	*10.5*	<0.67	<2.05	<1.95
G-3-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-4-W	4/10-11/17	<0.17	0.25	<0.82	<2.17	<0.67	<2.05	<1.95
G-5-W	4/10-11/17	<0.17	2.15	<0.82	<2.17	<0.67	<2.05	16.7
G-6-W	4/10-11/17	<0.17	0.33	<0.82	<2.17	<0.67	<2.05	0.91-2.47
G-7-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-8-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-9-W	4/10-11/17	<0.17	0.21	<0.82	<2.17	<0.67	<2.05	0.56-2.12
G-10-W	4/10-11/17	*4.3*	1.35	<0.82	*16*	1.23	<2.05	3.72
G-11-W	4/10-11/17	**7.6**	3.5	<0.82	*80*	<0.67	5.5-6.41	1.08-2.64
G-12-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-13-W	4/10-11/17	<0.17	0.36	<0.82	<2.17	<0.67	<2.05	0.55-2.11
G-14-W	4/10-11/17	<0.17	<0.2	<0.82	3.5	<0.67	<2.05	<1.95
G-15-W	4/10-11/17	*1.6*	1.45	<4.1	**186**	<3.35	<10.25	<9.75
G-16-W	4/10-11/17	**66**	4.0	<4.1	**138**	<3.35	<10.25	<9.75
G-17-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-19-W	4/10-11/17	**5.8**	1.85	<0.82	**133**	<0.67	<2.05	1.06-2.62
G-20-W	4/10-11/17	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
G-21-W	4/10-11/17	0.21	1.59	<0.82	*40*	<0.67	1.69-2.60	0.43-1.99
G-22-W	4/10-11/17	*1.05*	4.2	<0.82	*11.7*	<0.67	<2.05	0.47-2.03
ENFORCE MENT STANDARD ES = Bold		**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT PAL = Italics		*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

NS = Not Sampled
(ppb) = parts per billion (ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-1
PVC Elevation = 813.02 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/20/2017	809.37	3.65	<0.9	**7.6**	0.43	<0.82	*34*	<0.67	<2.05	<1.95
12/14/2017	808.75	4.27	<0.9	**5.0**	0.67	<0.43	0.50	<0.33	0.66-1.22	<1.71
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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 = 812.89 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/20/2017	808.33	4.56	<0.9	*0.76*	0.42	<0.82	<2.17	<0.67	<2.05	0.56-2.12
12/14/2017	808.02	4.87	<0.9	*0.83*	<0.56	<0.43	1.22	0.54	1.76	<1.71
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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 = 813.47 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/20/2017	809.49	3.98	<0.9	**14.8**	2.0	<0.82	2.88	<0.67	<2.05	<1.95
12/14/2017	808.69	4.78	<0.9	*3.7*	0.85	<0.43	1.05	0.52	<1.14	<1.71
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-4
PVC Elevation = 813.79 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/20/2017	808.93	4.86	<0.9	0.29	0.31	<0.82	9.8	<0.67	<2.05	<1.95
12/14/2017	808.50	5.29	<0.9	0.40	<0.56	<0.43	0.62	0.37	<1.14	<1.71
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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 = 813.30 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
9/20/2017	808.84	4.46	<0.9	<0.17	<0.2	<0.82	3.9	<0.67	<2.05	<1.95
12/14/2017	808.75	4.55	<0.9	0.27	<0.56	<0.43	0.036	<0.33	<1.14	<1.71
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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
(PAH)
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-1

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
9/20/2017	0.81	0.172	0.055	<0.034	<0.04	<0.036	<0.05	<0.032	<0.04	<0.05	0.04	0.73	<0.046	4.20	2.07	9.60	0.55	<0.04
12/14/2017	0.59	0.0194	0.114	0.0212	<0.02	<0.018	<0.025	<0.016	<0.02	<0.025	0.0286	0.103	<0.023	0.60	0.76	0.50	0.211	0.04
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
9/20/2017	3.90	1.03	1.11	0.182	<0.10	*0.092*	<0.125	<0.08	*0.183*	<0.125	0.82	2.09	<0.115	27.9	11.8	1.63	5.80	0.79
12/14/2017	2.71	0.50	0.63	0.12	<0.10	<0.09	<0.125	<0.08	<0.10	<0.125	0.166	0.74	<0.115	12.1	3.60	1.22	1.85	0.275
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
9/20/2017	2.66	0.262	0.252	<0.017	<0.02	<0.018	<0.025	<0.016	<0.02	<0.025	0.077	0.79	<0.023	3.50	1.27	1.41	2.78	0.12
12/14/2017	1.80	0.193	0.276	0.0212	<0.02	<0.018	<0.025	<0.016	<0.02	<0.025	0.0311	0.41	<0.023	5.30	0.129	1.05	2.26	0.082
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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
(PAH)
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-4

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
9/20/2017	0.52	0.051	0.039	<0.017	<0.02	<0.018	<0.025	<0.016	<0.02	<0.025	0.0277	0.276	<0.023	2.65	0.091	2.11	0.055	<0.02
12/14/2017	0.69	0.051	0.049	0.0283	<0.02	*0.0289*	0.41	<0.016	*0.0213*	<0.025	0.043	0.0216	<0.023	0.44	0.09	0.62	0.167	0.048
ENFORCE MENT STANDARD = ES – Bold			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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

Date	Ace-naphthene (ppb)	Acenaph-thylene (ppb)	Anthracene (ppb)	Benzo(a) anthracene (ppb)	Benzo(a) pyrene (ppb)	Benzo(b) fluoranthene (ppb)	Benzo(g,h,I) Perylene (ppb)	Benzo(k) fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h) anthracene (ppb)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
9/20/2017	0.095	<0.019	<0.019	0.0174	<0.02	*0.0268*	0.0278	<0.016	<0.02	<0.025	0.055	0.031	<0.023	1.42	0.059	0.89	0.0296	0.0271
12/14/2017	<0.016	<0.019	<0.019	0.0222	<0.02	*0.021*	<0.025	<0.016	<0.02	<0.025	0.0217	<0.021	<0.023	0.054	<0.024	0.036	<0.025	0.0206
ENFORCE MENT STANDARD = ES – Bold			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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
Korth Property LUST Site BRRT'S# 03-45-002078

Well Sampling Conducted on:	09/20/17	09/20/17	09/20/17	09/20/17	09/20/17		
VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Lead, dissolved/ppb	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	**15**	*1.5*
Benzene/ppb	**7.6**	*0.76*	**14.8**	0.29 "J"	< 0.17	**5**	*0.5*
Bromobenzene/ppb	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	==	==
Bromodichloromethane/ppb	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	**0.6**	*0.06*
Bromoform/ppb	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	**4.4**	*0.44*
tert-Butylbenzene/ppb	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	==	==
sec-Butylbenzene/ppb	1.86	5.3	4.9	4.8	< 0.24	==	==
n-Butylbenzene/ppb	1.15	3.7	1.48	2.37	< 0.34	==	==
Carbon Tetrachloride/ppb	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	**5**	*0.5*
Chlorobenzene/ppb	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	==	==
Chloroethane/ppb	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**400**	*80*
Chloroform/ppb	< 0.96	< 0.96.	< 0.96	< 0.96	< 0.96	**6**	*0.6*
Chloromethane/ppb	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**30**	*3*
2-Chlorotoluene/ppb	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	==	==
4-Chlorotoluene/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,2-Dibromo-3-chloropropane/ppb	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	**0.2**	*0.02*
Dibromochloromethane/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**60**	*6*
1,4-Dichlorobenzene/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	**75**	*15*
1,3-Dichlorobenzene/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**600**	*120*
1,2-Dichlorobenzene/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	**600**	*60*
Dichlorodifluoromethane/ppb	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**1000**	*200*
1,2-Dichloroethane/ppb	< 0.45	< 0.45	*0.66 "J"*	< 0.45	< 0.45	**5**	*0.5*
1,1-Dichloroethane/ppb	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	**850**	*85*
1,1-Dichloroethene/ppb	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**7**	*0.7*
cis-1,2-Dichloroethene/ppb	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	**100**	*20*
1,2-Dichloropropane/ppb	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	**5**	*0.5*
1,3-Dichloropropane/ppb	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	==	==
trans-1,3-Dichloropropene/ppm	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42		
cis-1,3-Dichloropropene/ppm	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	**0.4**	*0.04*
Di-isopropyl ether/ppb	1.1	< 0.26	< 0.26	< 0.26	< 0.26	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	**0.05**	*0.005*
Ethylbenzene/ppb	0.43 "J"	0.42 "J"	2	0.31 "J"	< 0.2	**700**	*140*
Hexachlorobutadiene/ppb	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	==	==
Isopropylbenzene/ppb	2.14	8.2	6.2	6.6	< 0.29	==	==
p-Isopropyltoluene/ppb	0.46 "J"	< 0.28	< 0.28	0.29 "J"	< 0.28	==	==
Methylene chloride/ppb	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	**5**	*0.5*
Methyl tert-butyl ether (MTBE)/ppb	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	**60**	*12*
Naphthalene/ppb	*34*	< 2.17	2.88 "J"	9.8	3.9 "J"	**100**	*10*
n-Propylbenzene/ppb	1.95	4.2	6.2	6.6	0.38 "J"	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	**0.2**	*0.02*
1,1,1,2-Tetrachloroethane/ppb	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
Toluene/ppb	< 0.67	< 0.67	< 0.67	< 0.67	< 0.67	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	==	==
1,1,1-Trichloroethane/ppb	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	**200**	*40*
1,1,2-Trichloroethane/ppb	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**5**	*0.5*
Trichlorofluoromethane/ppb	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	==	==
1,2,4-Trimethylbenzene/ppb	< 1.14	< 1.14	< 1.14	< 1.14	< 1.14		
1,3,5-Trimethylbenzene/ppb	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 0.19	< 0.19	< 0.19	**0.27 "J"**	< 0.19	**0.2**	*0.02*
m&p-Xylene/ppb	< 1.56	< 1.56	< 1.56	< 1.56	< 1.56		
o-Xylene/ppb	< 0.39	0.56 "J"	< 0.39	< 0.39	< 0.39	**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.7 Other
Groundwater NA Indicator Results
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
9/20/2017	2.47	6.70	28.10	19.81	2271	<0.17	21.7	0.22	**2330**
12/14/2017	0.30	6.81	36.00	11.80	2767	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*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)	Man-ganese (ppb)
9/20/2017	2.14	6.84	-125.8	18.89	783	<0.17	9.56	0.1	**1070**
12/14/2017	1.70	6.91	36	13.0	949	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*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)	Man-ganese (ppb)
9/20/2017	2.77	6.95	-82.6	18.39	1441	<0.17	3.98	0.1	**1170**
12/14/2017	0.47	6.73	-78	13.0	1769	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*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
Korth Property LUST Site BRRT'S# 03-45-002078

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
9/20/2017	2.54	6.82	16.3	18.34	1248	<0.17	6.58	0.15	**1420**
12/14/2017	0.50	6.55	28	12.8	1498	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*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-5

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
9/20/2017	2.09	6.91	60.9	16.07	702	<0.17	14.2	0.11	**732**
12/14/2017	1.70	6.91	36	13.0	949	NS	NS	NS	NS
ENFORCE MENT STANDARD = **ES – Bold**						**10**	-	-	**300**
PREVENTIVE ACTION LIMIT = *PAL - Italics*						*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.6 Water Level Elevations
Korth Property LUST Site BRRT'S# 03-45-002078
West Allis, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5
Ground Surface (feet msl)	813.53	813.31	813.90	814.33	813.94
PVC top (feet msl)	813.02	812.89	813.47	813.79	813.30
Well Depth (feet)	13.00	13.00	13.00	13.00	13.00
Top of screen (feet msl)	810.53	810.31	810.90	811.33	810.94
Bottom of screen (feet msl)	800.53	800.31	800.90	801.33	800.94
Depth to Water From Top of PVC (feet)					
09/20/17	3.65	4.56	3.98	4.86	4.46
12/14/17	4.27	4.87	4.78	5.29	4.55
Depth to Water From Ground Surface (feet)					
09/20/17	4.16	4.98	4.41	5.40	5.10
12/14/17	4.78	5.29	5.21	5.83	5.19
Groundwater Elevation (feet msl)					
09/20/17	809.37	808.33	809.49	808.93	808.84
12/14/17	808.75	808.02	808.69	808.50	808.75

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

A.7 Other
Korth Property
Slug Test Calculations

MW-1

	ft/s	cm/s	m/yr
K	3.63E-05	1.11E-03	348.92
	sq ft/s	**sq cm/s**	
T	3.39E-04	3.15E-01	

MW-4

	ft/s	cm/s	m/yr
K	5.99E-05	1.83E-03	575.77
	sq ft/s	**sq cm/s**	
T	4.87E-04	4.52E-01	

MW-5

	ft/s	cm/s	m/yr
K	3.25E-05	9.91E-04	312.40
	sq ft/s	**sq cm/s**	
T	2.77E-04	2.57E-01	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
9/20/2017	809.25	808.50	20	0.0375000
12/14/2017	808.70	808.20	20	0.0250000
Average				0.0312500

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	348.92	0.0312500	0.3	36.34583
MW-4	575.77	0.0312500	0.3	59.97604
MW-5	312.4	0.0312500	0.3	32.54167

8.0 PHOTOS

Photos

Photo #1: Looking southeast.

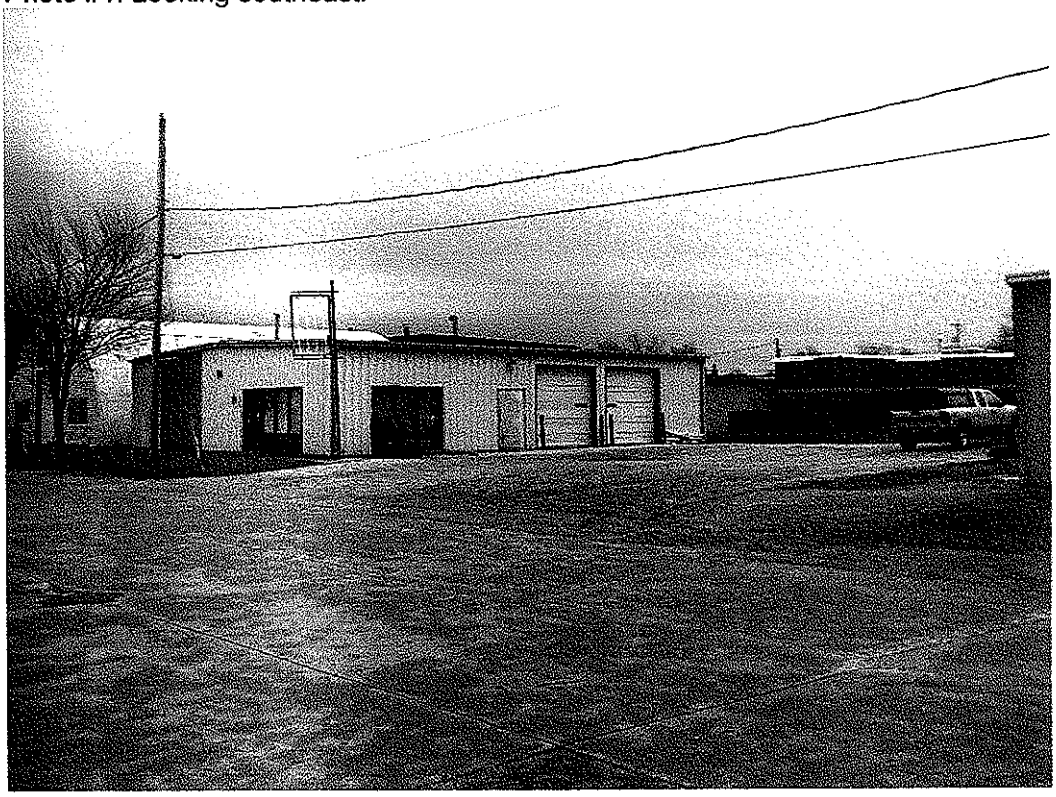

Photo #2: Looking south.

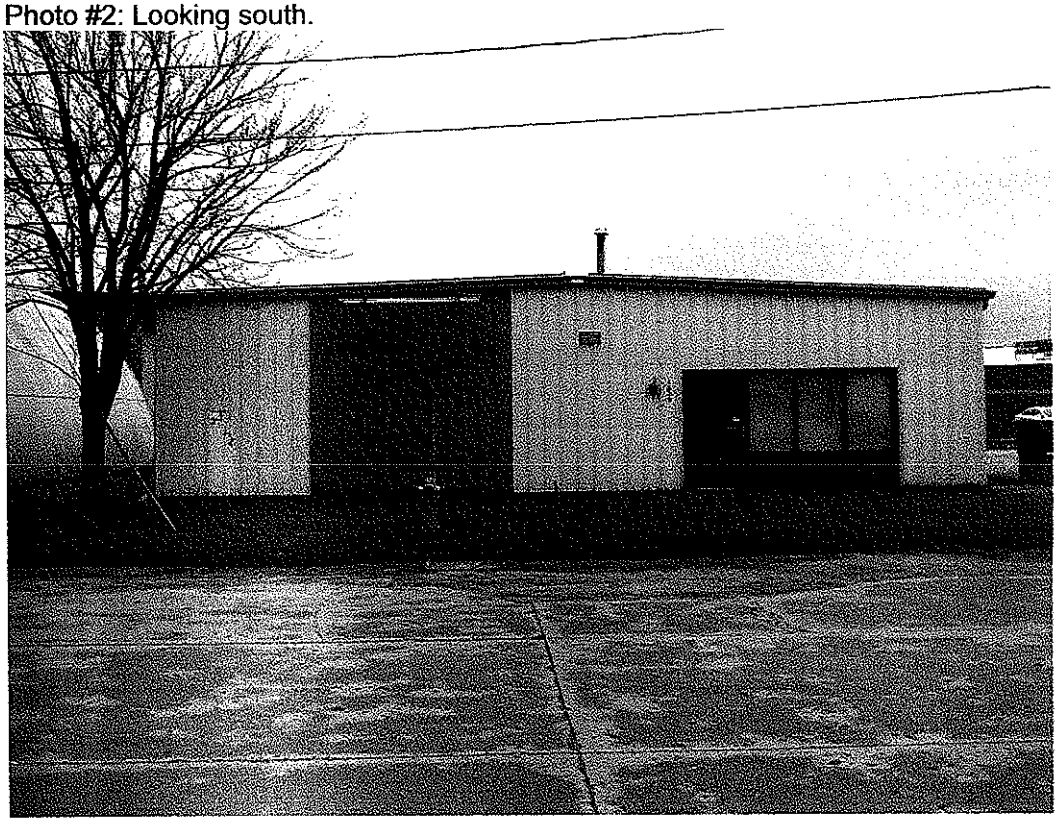

Photo #3: Looking south.

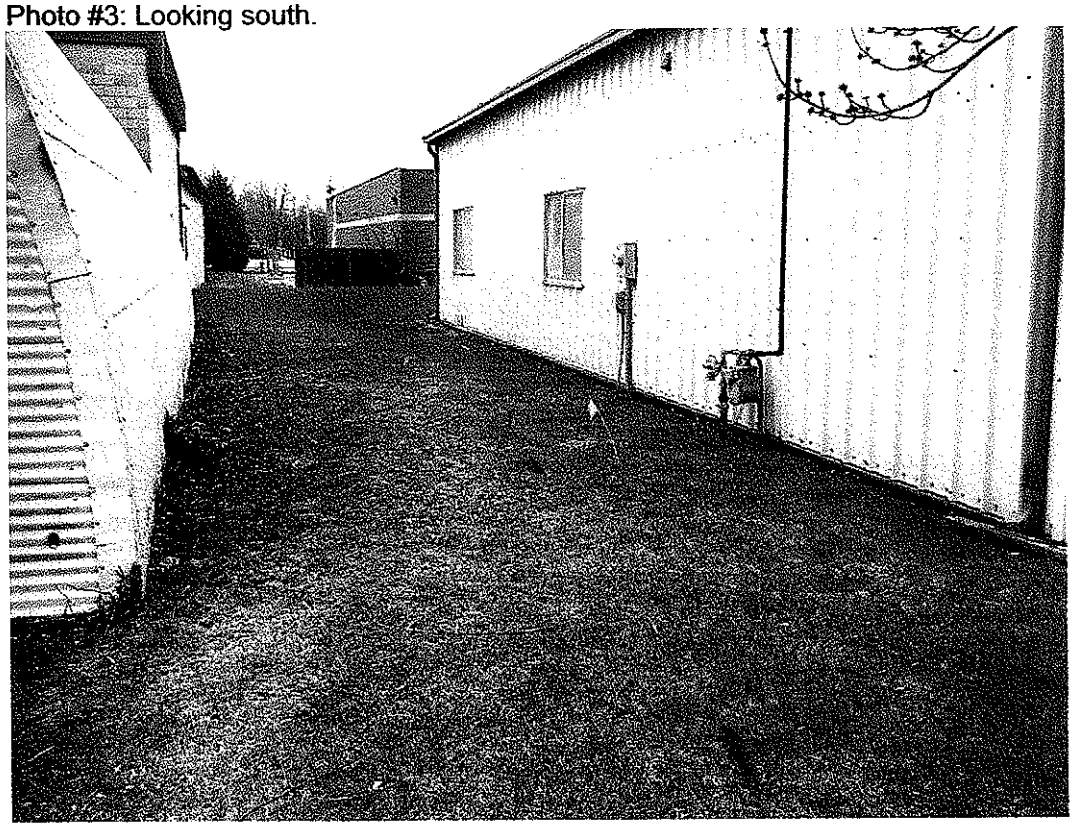

Photo #4: Looking west.

APPENDIX A/ METHODS OF INVESTIGATION

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) hollow stem augers. Soil sampling was conducted using a Geoprobe. Using this procedure an assembled stainless steel sampler is advanced to the top of the interval to be sampled, a stop-pin is then removed, and the sampler driven until filled.

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.

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 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 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, 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. 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 15-55 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.

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 4 drums of soil cuttings and 1 drum of purge water at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

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

ROBERT KORTH
ROBERT KORTH
802 W. WEILAND AVE.,
APPLETON, WI54914

Report Date *28-Apr-17*

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761A
Sample ID G-1-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	2.16	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	2
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/13/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761A
Sample ID G-1-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Lab Code 5032761B
Sample ID G-2-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.2	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	10.3	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.125	mg/kg	0.095	0.3	5	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	0.189	mg/kg	0.05	0.16	5	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		4/20/2017	TCC	1
Naphthalene	4.6	mg/kg	0.11	0.35	5	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.125	mg/kg	0.07	0.23	5	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	7.4	mg/kg	0.05	0.16	5	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	1.8	mg/kg	0.055	0.18	5	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.75	mg/kg	0.06	0.185	5	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.282	mg/kg	0.075	0.235	5	GRO95/8021		4/20/2017	TCC	1

Lab Code 5032761C
Sample ID G-2-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.4	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	2.43	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	0.106	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	0.138	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	0.053	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	0.034 "J"	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761D
Sample ID G-3-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.7	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	17.4	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.10	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	0.043	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	0.48	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	0.184	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	0.39	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	0.261	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	0.224	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	0.146	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Lab Code 5032761E
Sample ID G-3-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	53.4	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.142	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	0.249	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	0.57	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	0.263	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	0.62	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	0.228	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	0.97	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	0.165	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761F
Sample ID G-4-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.5	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	13.5	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Lab Code 5032761G
Sample ID G-4-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.9	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.14	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	0.203	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	0.49	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	0.275	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	0.51	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	0.249	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	0.65	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	0.234	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761H
Sample ID G-5-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.6	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	16.4	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Lab Code 50327611
Sample ID G-5-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.5	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/19/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/19/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/19/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/19/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/19/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/19/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/19/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/19/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761J
Sample ID G-6-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.7	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	17.0	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.047 "J"	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	0.093	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	0.075	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.072	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 5032761K
Sample ID G-6-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.3	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	0.062	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	0.182	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	0.079	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.059	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.0308 "J"	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.191	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.146	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761L
Sample ID G-7-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.9	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	25.4	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	0.071	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 5032761M
Sample ID G-8-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.2	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	91.0	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.39	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	0.39	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	0.050 "J"	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	0.256	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.258	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.133	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	1.14	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.283	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761N
Sample ID G-8-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.5	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	0.036 "J"	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.088	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.040 "J"	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 5032761O
Sample ID G-9-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.3	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	3.91	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761P
Sample ID G-9-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.3	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 5032761Q
Sample ID G-10-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.5	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	6.68	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761R
Sample ID G-10-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.9	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761S
Sample ID G-11-I
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.5	%			1	5021		4/13/2017	NJC	I
Inorganic										
Metals										
Lead, Total	47.6	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	I
Organic										
PAH SIM										
Acenaphthene	1.89	mg/kg	0.0755	0.2405	5	M8270C	4/13/2017	4/13/2017	NJC	I
Acenaphthylene	0.51	mg/kg	0.0795	0.254	5	M8270C	4/13/2017	4/13/2017	NJC	I
Anthracene	1.29	mg/kg	0.0545	0.1725	5	M8270C	4/13/2017	4/13/2017	NJC	I
Benzo(a)anthracene	0.257	mg/kg	0.058	0.185	5	M8270C	4/13/2017	4/13/2017	NJC	I
Benzo(a)pyrene	0.44	mg/kg	0.0565	0.1795	5	M8270C	4/13/2017	4/13/2017	NJC	I
Benzo(b)fluoranthene	0.90	mg/kg	0.065	0.205	5	M8270C	4/13/2017	4/13/2017	NJC	I
Benzo(g,h,i)perylene	0.56	mg/kg	0.057	0.18	5	M8270C	4/13/2017	4/13/2017	NJC	I
Benzo(k)fluoranthene	0.213 "J"	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/13/2017	NJC	I
Chrysene	0.47	mg/kg	0.0605	0.1915	5	M8270C	4/13/2017	4/13/2017	NJC	I
Dibenzo(a,h)anthracene	0.126	mg/kg	0.039	0.1255	5	M8270C	4/13/2017	4/13/2017	NJC	I
Fluoranthene	0.46	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/13/2017	NJC	I
Fluorene	2.71	mg/kg	0.0895	0.285	5	M8270C	4/13/2017	4/13/2017	NJC	I
Indeno(1,2,3-cd)pyrene	0.38	mg/kg	0.057	0.181	5	M8270C	4/13/2017	4/13/2017	NJC	I
1-Methyl naphthalene	9.40	mg/kg	0.1015	0.3225	5	M8270C	4/13/2017	4/13/2017	NJC	I
2-Methyl naphthalene	1.31	mg/kg	0.0565	0.179	5	M8270C	4/13/2017	4/13/2017	NJC	I
Naphthalene	0.76	mg/kg	0.0765	0.243	5	M8270C	4/13/2017	4/13/2017	NJC	I
Phenanthrene	6.10	mg/kg	0.0555	0.176	5	M8270C	4/13/2017	4/13/2017	NJC	I
Pyrene	1.71	mg/kg	0.0765	0.2435	5	M8270C	4/13/2017	4/13/2017	NJC	I
PVOC										
Benzene	0.051 "J"	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	I
Ethylbenzene	0.199	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	I
Toluene	0.137	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	I
1,2,4-Trimethylbenzene	0.52	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	I
1,3,5-Trimethylbenzene	0.248	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	I
m&p-Xylene	0.47	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	I
o-Xylene	0.204	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	I

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761T
Sample ID G-11-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.0	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.29 "J"	mg/kg	0.19	0.6	10	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	0.67	mg/kg	0.1	0.32	10	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/20/2017	TCC	1
Naphthalene	27.8	mg/kg	0.22	0.7	10	GRO95/8021		4/20/2017	TCC	1
Toluene	0.35 "J"	mg/kg	0.14	0.46	10	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	2.65	mg/kg	0.1	0.32	10	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	3.9	mg/kg	0.11	0.36	10	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	1.83	mg/kg	0.12	0.37	10	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.90	mg/kg	0.15	0.47	10	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761U
Sample ID G-12-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.8	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	3.61	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/13/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761V
Sample ID G-12-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.6	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761W
Sample ID G-13-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.6	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	5.26	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/13/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761X
Sample ID G-13-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.1	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	0.92	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.059	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.054	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761Y
Sample ID G-14-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.5	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	1.12	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	2
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/13/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/13/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/13/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/13/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/13/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/13/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/13/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/13/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/13/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/13/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/13/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/13/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 5032761Z
Sample ID G-14-2
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	3.6	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.181	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.281	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.125	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.054	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 52761AAA
Sample ID G-12-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 52761BBB
Sample ID G-19-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5.8	ug/l	0.17	0.55	1	8260B		4/21/2017	CJR	1
Ethylbenzene	1.85	ug/l	0.2	0.63	1	8260B		4/21/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/21/2017	CJR	1
Naphthalene	133	ug/l	2.17	6.9	1	8260B		4/21/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/21/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/21/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/21/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/21/2017	CJR	1
o-Xylene	1.06 "J"	ug/l	0.39	1.25	1	8260B		4/21/2017	CJR	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 52761CCC
Sample ID G-16-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	66	ug/l	0.85	2.75	5	8260B		4/20/2017	CJR	1
Ethylbenzene	4.0	ug/l	1	3.15	5	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.1	ug/l	4.1	13	5	8260B		4/20/2017	CJR	1
Naphthalene	138	ug/l	10.85	34.5	5	8260B		4/20/2017	CJR	1
Toluene	< 3.35	ug/l	3.35	10.65	5	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	< 5.7	ug/l	5.7	18.15	5	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 4.55	ug/l	4.55	14.5	5	8260B		4/20/2017	CJR	1
m&p-Xylene	< 7.8	ug/l	7.8	24.75	5	8260B		4/20/2017	CJR	1
o-Xylene	< 1.95	ug/l	1.95	6.25	5	8260B		4/20/2017	CJR	1

Lab Code 52761DDD
Sample ID G-20-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/20/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/20/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/20/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/20/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/20/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/20/2017	CJR	1

Lab Code 52761EEE
Sample ID G-21-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.21 "J"	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	1.59	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	40	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	1.69 "J"	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	0.43 "J"	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 52761FFF
Sample ID G-17-W
Sample Matrix Water
Sample Date 4/12/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/20/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/20/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/20/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/20/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/20/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/20/2017	CJR	1

Lab Code 52761GGG
Sample ID G-22-W
Sample Matrix Water
Sample Date 4/12/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1.05	ug/l	0.17	0.55	1	8260B		4/20/2017	CJR	1
Ethylbenzene	4.2	ug/l	0.2	0.63	1	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/20/2017	CJR	1
Naphthalene	11.7	ug/l	2.17	6.9	1	8260B		4/20/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/20/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/20/2017	CJR	1
o-Xylene	0.47 "J"	ug/l	0.39	1.25	1	8260B		4/20/2017	CJR	1

Lab Code 52761HHH
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 4/12/2017

	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		4/21/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/21/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/21/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/21/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 52761III
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 4/12/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	I
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	I
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	I
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	I
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	I
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	I
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	I
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	I

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761AA
Sample ID G-15-1
Sample Matrix Soil
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	71.3	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	3.77	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	4.30	mg/kg	0.0755	0.2405	5	M8270C	4/13/2017	4/14/2017	NJC	1
Acenaphthylene	1.32	mg/kg	0.0795	0.254	5	M8270C	4/13/2017	4/14/2017	NJC	1
Anthracene	1.52	mg/kg	0.0545	0.1725	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)anthracene	5.40	mg/kg	0.058	0.185	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)pyrene	8.60	mg/kg	0.0565	0.1795	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(b)fluoranthene	13.0	mg/kg	0.065	0.205	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(g,h,i)perylene	8.20	mg/kg	0.057	0.18	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(k)fluoranthene	4.10	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Chrysene	8.20	mg/kg	0.0605	0.1915	5	M8270C	4/13/2017	4/14/2017	NJC	1
Dibenzo(a,h)anthracene	2.01	mg/kg	0.039	0.1255	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluoranthene	5.30	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluorene	6.80	mg/kg	0.0895	0.285	5	M8270C	4/13/2017	4/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	6.30	mg/kg	0.057	0.181	5	M8270C	4/13/2017	4/14/2017	NJC	1
1-Methyl naphthalene	36.0	mg/kg	0.1015	0.3225	5	M8270C	4/13/2017	4/14/2017	NJC	1
2-Methyl naphthalene	9.70	mg/kg	0.0565	0.179	5	M8270C	4/13/2017	4/14/2017	NJC	1
Naphthalene	1.92	mg/kg	0.0765	0.243	5	M8270C	4/13/2017	4/14/2017	NJC	1
Phenanthrene	14.3	mg/kg	0.0555	0.176	5	M8270C	4/13/2017	4/14/2017	NJC	1
Pyrene	6.60	mg/kg	0.0765	0.2435	5	M8270C	4/13/2017	4/14/2017	NJC	1
PVOC										
Benzene	< 0.125	mg/kg	0.095	0.3	5	GRO95/8021		4/22/2017	TCC	1
Ethylbenzene	0.53	mg/kg	0.05	0.16	5	GRO95/8021		4/22/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.125	mg/kg	0.0395	0.125	5	GRO95/8021		4/22/2017	TCC	1
Toluene	0.202 "J"	mg/kg	0.07	0.23	5	GRO95/8021		4/22/2017	TCC	1
1,2,4-Trimethylbenzene	1.38	mg/kg	0.05	0.16	5	GRO95/8021		4/22/2017	TCC	1
1,3,5-Trimethylbenzene	1.83	mg/kg	0.055	0.18	5	GRO95/8021		4/22/2017	TCC	1
m&p-Xylene	0.99	mg/kg	0.06	0.185	5	GRO95/8021		4/22/2017	TCC	1
o-Xylene	0.42	mg/kg	0.075	0.235	5	GRO95/8021		4/22/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761BB
Sample ID G-16-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.7	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	38.0	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	4.00	mg/kg	0.0755	0.2405	5	M8270C	4/13/2017	4/14/2017	NJC	1
Acenaphthylene	1.08	mg/kg	0.0795	0.254	5	M8270C	4/13/2017	4/14/2017	NJC	1
Anthracene	1.86	mg/kg	0.0545	0.1725	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)anthracene	0.228	mg/kg	0.058	0.185	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)pyrene	0.214	mg/kg	0.0565	0.1795	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(b)fluoranthene	0.53	mg/kg	0.065	0.205	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(g,h,i)perylene	0.292	mg/kg	0.057	0.18	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(k)fluoranthene	0.136 "J"	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Chrysene	0.46	mg/kg	0.0605	0.1915	5	M8270C	4/13/2017	4/14/2017	NJC	1
Dibenzo(a,h)anthracene	0.078 "J"	mg/kg	0.039	0.1255	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluoranthene	0.67	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluorene	5.10	mg/kg	0.0895	0.285	5	M8270C	4/13/2017	4/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	0.161 "J"	mg/kg	0.057	0.181	5	M8270C	4/13/2017	4/14/2017	NJC	1
1-Methyl naphthalene	14.4	mg/kg	0.1015	0.3225	5	M8270C	4/13/2017	4/14/2017	NJC	1
2-Methyl naphthalene	23.0	mg/kg	0.0565	0.179	5	M8270C	4/13/2017	4/14/2017	NJC	1
Naphthalene	4.70	mg/kg	0.0765	0.243	5	M8270C	4/13/2017	4/14/2017	NJC	1
Phenanthrene	10.4	mg/kg	0.0555	0.176	5	M8270C	4/13/2017	4/14/2017	NJC	1
Pyrene	2.14	mg/kg	0.0765	0.2435	5	M8270C	4/13/2017	4/14/2017	NJC	1
PVOC										
Benzene	0.34 "J"	mg/kg	0.19	0.6	10	GRO95/8021		4/22/2017	TCC	1
Ethylbenzene	0.61	mg/kg	0.1	0.32	10	GRO95/8021		4/22/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/22/2017	TCC	1
Toluene	1.04	mg/kg	0.14	0.46	10	GRO95/8021		4/22/2017	TCC	1
1,2,4-Trimethylbenzene	3.02	mg/kg	0.1	0.32	10	GRO95/8021		4/22/2017	TCC	1
1,3,5-Trimethylbenzene	10.3	mg/kg	0.11	0.36	10	GRO95/8021		4/22/2017	TCC	1
m&p-Xylene	2.46	mg/kg	0.12	0.37	10	GRO95/8021		4/22/2017	TCC	1
o-Xylene	1.81	mg/kg	0.15	0.47	10	GRO95/8021		4/22/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761CC
Sample ID G-16-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.1	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.41 "J"	mg/kg	0.19	0.6	10	GRO95/8021		4/21/2017	TCC	1
Ethylbenzene	0.36	mg/kg	0.1	0.32	10	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/21/2017	TCC	1
Naphthalene	18	mg/kg	0.22	0.7	10	GRO95/8021		4/21/2017	TCC	1
Toluene	0.32 "J"	mg/kg	0.14	0.46	10	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	1.74	mg/kg	0.1	0.32	10	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	2.66	mg/kg	0.11	0.36	10	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	1.4	mg/kg	0.12	0.37	10	GRO95/8021		4/21/2017	TCC	1
o-Xylene	0.69	mg/kg	0.15	0.47	10	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761DD
Sample ID G-17-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	29.2	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/14/2017	NJC	1
Acenaphthylene	0.0169 "J"	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/14/2017	NJC	1
Anthracene	0.0301 "J"	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)anthracene	0.056	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)pyrene	0.071	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(b)fluoranthene	0.156	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(g,h,i)perylene	0.122	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(k)fluoranthene	0.0266 "J"	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/14/2017	NJC	1
Chrysene	0.142	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/14/2017	NJC	1
Dibenzo(a,h)anthracene	0.0274	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/14/2017	NJC	1
Fluoranthene	0.069	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/14/2017	NJC	1
Fluorene	0.041 "J"	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	0.063	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/14/2017	NJC	1
1-Methyl naphthalene	0.34	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/14/2017	NJC	1
2-Methyl naphthalene	0.62	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/14/2017	NJC	1
Naphthalene	0.162	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/14/2017	NJC	1
Phenanthrene	0.239	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/14/2017	NJC	1
Pyrene	0.129	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/14/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Toluene	0.044 "J"	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.047	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761EE
Sample ID G-17-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.8	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/20/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/20/2017	TCC	1
Naphthalene	1.63	mg/kg	0.022	0.07	1	GRO95/8021		4/20/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/20/2017	TCC	1
1,2,4-Trimethylbenzene	0.121	mg/kg	0.01	0.032	1	GRO95/8021		4/20/2017	TCC	1
1,3,5-Trimethylbenzene	0.168	mg/kg	0.011	0.036	1	GRO95/8021		4/20/2017	TCC	1
m&p-Xylene	0.073	mg/kg	0.012	0.037	1	GRO95/8021		4/20/2017	TCC	1
o-Xylene	0.043 "J"	mg/kg	0.015	0.047	1	GRO95/8021		4/20/2017	TCC	1

Lab Code 532761FF
Sample ID G-19-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.2	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	9.17	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.25	mg/kg	0.19	0.6	10	GRO95/8021		4/21/2017	TCC	1
Ethylbenzene	1.47	mg/kg	0.1	0.32	10	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/21/2017	TCC	1
Naphthalene	20.4	mg/kg	0.22	0.7	10	GRO95/8021		4/21/2017	TCC	1
Toluene	< 0.25	mg/kg	0.14	0.46	10	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	4.5	mg/kg	0.1	0.32	10	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	0.79	mg/kg	0.11	0.36	10	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	1.21	mg/kg	0.12	0.37	10	GRO95/8021		4/21/2017	TCC	1
o-Xylene	0.67	mg/kg	0.15	0.47	10	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761GG
Sample ID G-19-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.6	%			1	5021		4/13/2017	NJC	1
Organic										
VOC's										
Benzene	< 0.03	mg/kg	0.03	0.96	1	8260B		4/24/2017	TCC	1
Bromobenzene	< 0.025	mg/kg	0.025	0.081	1	8260B		4/24/2017	TCC	1
Bromodichloromethane	< 0.074	mg/kg	0.074	0.24	1	8260B		4/24/2017	TCC	1
Bromoform	< 0.029	mg/kg	0.029	0.092	1	8260B		4/24/2017	TCC	1
tert-Butylbenzene	0.08 "J"	mg/kg	0.026	0.084	1	8260B		4/24/2017	TCC	1
sec-Butylbenzene	3.7	mg/kg	0.033	0.1	1	8260B		4/24/2017	TCC	1
n-Butylbenzene	4.9	mg/kg	0.04	0.13	1	8260B		4/24/2017	TCC	1
Carbon Tetrachloride	< 0.016	mg/kg	0.016	0.053	1	8260B		4/24/2017	TCC	1
Chlorobenzene	< 0.013	mg/kg	0.013	0.04	1	8260B		4/24/2017	TCC	1
Chloroethane	< 0.091	mg/kg	0.091	0.29	1	8260B		4/24/2017	TCC	1
Chloroform	< 0.035	mg/kg	0.035	0.11	1	8260B		4/24/2017	TCC	1
Chloromethane	< 0.076	mg/kg	0.076	0.24	1	8260B		4/24/2017	TCC	1
2-Chlorotoluene	< 0.015	mg/kg	0.015	0.047	1	8260B		4/24/2017	TCC	1
4-Chlorotoluene	< 0.018	mg/kg	0.018	0.057	1	8260B		4/24/2017	TCC	1
1,2-Dibromo-3-chloropropane	< 0.058	mg/kg	0.058	0.18	1	8260B		4/24/2017	TCC	1
Dibromochloromethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/24/2017	TCC	1
1,4-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/24/2017	TCC	1
1,3-Dichlorobenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/24/2017	TCC	1
1,2-Dichlorobenzene	< 0.028	mg/kg	0.028	0.088	1	8260B		4/24/2017	TCC	1
Dichlorodifluoromethane	< 0.048	mg/kg	0.048	0.15	1	8260B		4/24/2017	TCC	1
1,2-Dichloroethane	< 0.038	mg/kg	0.038	0.12	1	8260B		4/24/2017	TCC	1
1,1-Dichloroethane	< 0.034	mg/kg	0.034	0.11	1	8260B		4/24/2017	TCC	1
1,1-Dichloroethene	< 0.022	mg/kg	0.022	0.069	1	8260B		4/24/2017	TCC	1
cis-1,2-Dichloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/24/2017	TCC	1
trans-1,2-Dichloroethene	< 0.028	mg/kg	0.028	0.09	1	8260B		4/24/2017	TCC	1
1,2-Dichloropropane	< 0.035	mg/kg	0.035	0.11	1	8260B		4/24/2017	TCC	1
1,3-Dichloropropane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/24/2017	TCC	1
trans-1,3-Dichloropropene	< 0.022	mg/kg	0.022	0.068	1	8260B		4/24/2017	TCC	1
cis-1,3-Dichloropropene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/24/2017	TCC	1
Di-isopropyl ether	< 0.01	mg/kg	0.01	0.032	1	8260B		4/24/2017	TCC	1
EDB (1,2-Dibromoethane)	< 0.023	mg/kg	0.023	0.072	1	8260B		4/24/2017	TCC	1
Ethylbenzene	0.045 "J"	mg/kg	0.035	0.11	1	8260B		4/24/2017	TCC	1
Hexachlorobutadiene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/24/2017	TCC	1
Isopropylbenzene	1.78	mg/kg	0.034	0.11	1	8260B		4/24/2017	TCC	1
p-Isopropyltoluene	0.039 "J"	mg/kg	0.029	0.093	1	8260B		4/24/2017	TCC	1
Methylene chloride	< 0.15	mg/kg	0.15	0.46	1	8260B		4/24/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.05	mg/kg	0.05	0.16	1	8260B		4/24/2017	TCC	1
Naphthalene	5.9	mg/kg	0.094	0.3	1	8260B		4/24/2017	TCC	1
n-Propylbenzene	3.7	mg/kg	0.033	0.1	1	8260B		4/24/2017	TCC	1
1,1,2,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.88	1	8260B		4/24/2017	TCC	1
1,1,1,2-Tetrachloroethane	< 0.028	mg/kg	0.028	0.09	1	8260B		4/24/2017	TCC	1
Tetrachloroethene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/24/2017	TCC	1
Toluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/24/2017	TCC	1
1,2,4-Trichlorobenzene	< 0.064	mg/kg	0.064	0.2	1	8260B		4/24/2017	TCC	1
1,2,3-Trichlorobenzene	< 0.066	mg/kg	0.066	0.21	1	8260B		4/24/2017	TCC	1
1,1,1-Trichloroethane	< 0.03	mg/kg	0.03	0.96	1	8260B		4/24/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761GG
Sample ID G-19-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/24/2017	TCC	1
Trichloroethene (TCE)	< 0.041	mg/kg	0.041	0.13	1	8260B		4/24/2017	TCC	1
Trichlorofluoromethane	< 0.041	mg/kg	0.041	0.13	1	8260B		4/24/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.025	0.08	1	8260B		4/24/2017	TCC	1
1,3,5-Trimethylbenzene	0.094 "J"	mg/kg	0.032	0.1	1	8260B		4/24/2017	TCC	1
Vinyl Chloride	< 0.019	mg/kg	0.019	0.062	1	8260B		4/24/2017	TCC	1
m&p-Xylene	< 0.072	mg/kg	0.072	0.23	1	8260B		4/24/2017	TCC	1
o-Xylene	< 0.044	mg/kg	0.044	0.14	1	8260B		4/24/2017	TCC	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		4/24/2017	TCC	1
SUR - 4-Bromofluorobenzene	118	Rec %			1	8260B		4/24/2017	TCC	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		4/24/2017	TCC	1
SUR - Toluene-d8	108	Rec %			1	8260B		4/24/2017	TCC	1

Lab Code 532761HH
Sample ID G-20-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.5	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	15.3	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/21/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/21/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		4/21/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/21/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761II
Sample ID G-20-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.9	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/21/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/21/2017	TCC	1
Naphthalene	0.56	mg/kg	0.022	0.07	1	GRO95/8021		4/21/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	0.059	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	0.089	mg/kg	0.011	0.036	1	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/21/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761JJ
Sample ID G-21-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.1	%			1	5021		4/13/2017	NJC	1
Inorganic										
Metals										
Lead, Total	26.0	mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	4/13/2017	4/14/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	4/13/2017	4/14/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)anthracene	0.032 "J"	mg/kg	0.0116	0.037	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)pyrene	0.044	mg/kg	0.0113	0.0359	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(b)fluoranthene	0.104	mg/kg	0.013	0.041	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(g,h,i)perylene	0.05	mg/kg	0.0114	0.036	1	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(k)fluoranthene	0.0264 "J"	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/14/2017	NJC	1
Chrysene	0.053	mg/kg	0.0121	0.0383	1	M8270C	4/13/2017	4/14/2017	NJC	1
Dibenzo(a,h)anthracene	0.0126 "J"	mg/kg	0.0078	0.0251	1	M8270C	4/13/2017	4/14/2017	NJC	1
Fluoranthene	0.0315 "J"	mg/kg	0.0147	0.0469	1	M8270C	4/13/2017	4/14/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	4/13/2017	4/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene	0.04	mg/kg	0.0114	0.0362	1	M8270C	4/13/2017	4/14/2017	NJC	1
1-Methyl naphthalene	0.045 "J"	mg/kg	0.0203	0.0645	1	M8270C	4/13/2017	4/14/2017	NJC	1
2-Methyl naphthalene	0.075	mg/kg	0.0113	0.0358	1	M8270C	4/13/2017	4/14/2017	NJC	1
Naphthalene	0.0243 "J"	mg/kg	0.0153	0.0486	1	M8270C	4/13/2017	4/14/2017	NJC	1
Phenanthrene	0.0176 "J"	mg/kg	0.0111	0.0352	1	M8270C	4/13/2017	4/14/2017	NJC	1
Pyrene	0.033 "J"	mg/kg	0.0153	0.0487	1	M8270C	4/13/2017	4/14/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/21/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/21/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/21/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		4/21/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/21/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		4/21/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		4/21/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761KK
Sample ID G-22-1
Sample Matrix Soil
Sample Date 4/11/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	84.0		%			1	5021		4/13/2017	NJC	1
Inorganic											
Metals											
Lead, Total	4.77		mg/Kg	0.17	0.58	1	6010B		4/19/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene	1.01		mg/kg	0.0755	0.2405	5	M8270C	4/13/2017	4/14/2017	NJC	1
Acenaphthylene	0.47		mg/kg	0.0795	0.254	5	M8270C	4/13/2017	4/14/2017	NJC	1
Anthracene	0.68		mg/kg	0.0545	0.1725	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)anthracene		< 0.058	mg/kg	0.058	0.185	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(a)pyrene		< 0.0565	mg/kg	0.0565	0.1795	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(b)fluoranthene		< 0.065	mg/kg	0.065	0.205	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(g,h,i)perylene		< 0.057	mg/kg	0.057	0.18	5	M8270C	4/13/2017	4/14/2017	NJC	1
Benzo(k)fluoranthene		< 0.0735	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Chrysene		< 0.0605	mg/kg	0.0605	0.1915	5	M8270C	4/13/2017	4/14/2017	NJC	1
Dibenzo(a,h)anthracene		< 0.039	mg/kg	0.039	0.1255	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluoranthene		< 0.0735	mg/kg	0.0735	0.2345	5	M8270C	4/13/2017	4/14/2017	NJC	1
Fluorene	2.06		mg/kg	0.0895	0.285	5	M8270C	4/13/2017	4/14/2017	NJC	1
Indeno(1,2,3-cd)pyrene		< 0.057	mg/kg	0.057	0.181	5	M8270C	4/13/2017	4/14/2017	NJC	1
1-Methyl naphthalene	20.5		mg/kg	0.1015	0.3225	5	M8270C	4/13/2017	4/14/2017	NJC	1
2-Methyl naphthalene	26.7		mg/kg	0.0565	0.179	5	M8270C	4/13/2017	4/14/2017	NJC	1
Naphthalene	0.52		mg/kg	0.0765	0.243	5	M8270C	4/13/2017	4/14/2017	NJC	1
Phenanthrene	2.72		mg/kg	0.0555	0.176	5	M8270C	4/13/2017	4/14/2017	NJC	1
Pyrene		< 0.0765	mg/kg	0.0765	0.2435	5	M8270C	4/13/2017	4/14/2017	NJC	1
PVOC											
Benzene		< 0.25	mg/kg	0.19	0.6	10	GRO95/8021		4/22/2017	TCC	1
Ethylbenzene	3.5		mg/kg	0.1	0.32	10	GRO95/8021		4/22/2017	TCC	1
Methyl tert-butyl ether (MTBE)		< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/22/2017	TCC	1
Toluene	0.46		mg/kg	0.14	0.46	10	GRO95/8021		4/22/2017	TCC	1
1,2,4-Trimethylbenzene	1.61		mg/kg	0.1	0.32	10	GRO95/8021		4/22/2017	TCC	1
1,3,5-Trimethylbenzene	4.1		mg/kg	0.11	0.36	10	GRO95/8021		4/22/2017	TCC	1
m&p-Xylene	2.36		mg/kg	0.12	0.37	10	GRO95/8021		4/22/2017	TCC	1
o-Xylene	0.74		mg/kg	0.15	0.47	10	GRO95/8021		4/22/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761LL
Sample ID G-22-2
Sample Matrix Soil
Sample Date 4/11/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		4/13/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/22/2017	TCC	1
Ethylbenzene	0.039	mg/kg	0.01	0.032	1	GRO95/8021		4/22/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/22/2017	TCC	1
Naphthalene	0.81	mg/kg	0.022	0.07	1	GRO95/8021		4/22/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/22/2017	TCC	1
1,2,4-Trimethylbenzene	0.11	mg/kg	0.01	0.032	1	GRO95/8021		4/22/2017	TCC	1
1,3,5-Trimethylbenzene	0.24	mg/kg	0.011	0.036	1	GRO95/8021		4/22/2017	TCC	1
m&p-Xylene	0.138	mg/kg	0.012	0.037	1	GRO95/8021		4/22/2017	TCC	1
o-Xylene	0.050	mg/kg	0.015	0.047	1	GRO95/8021		4/22/2017	TCC	1

Lab Code 532761MM
Sample ID G-1-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.28 "J"	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	0.55 "J"	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	0.64 "J"	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761NN
Sample ID G-2-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	10.5	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761OO
Sample ID G-3-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Lab Code 532761PP
Sample ID G-4-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	0.25 "J"	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761QQ
Sample ID G-5-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	2.15	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	8.9	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	7.8	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761RR
Sample ID G-6-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	0.33 "J"	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	0.91 "J"	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Lab Code 532761SS
Sample ID G-7-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761TT
Sample ID G-8-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761UU
Sample ID G-9-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/17/2017	TCC	1
Ethylbenzene	0.21 "J"	ug/l	0.2	0.63	1	8260B		4/17/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/17/2017	TCC	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/17/2017	TCC	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/17/2017	TCC	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/17/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/17/2017	TCC	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/17/2017	TCC	1
o-Xylene	0.56 "J"	ug/l	0.39	1.25	1	8260B		4/17/2017	TCC	1

Lab Code 532761VV
Sample ID G-10-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	4.3	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	1.35	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	16	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	1.23 "J"	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	2.23 "J"	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	1.49	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761WW
Sample ID G-11-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	7.6	ug/l	0.17	0.55	1	8260B		4/20/2017	CJR	1
Ethylbenzene	3.5	ug/l	0.2	0.63	1	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/20/2017	CJR	1
Naphthalene	80	ug/l	2.17	6.9	1	8260B		4/20/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	5.5	ug/l	1.14	3.63	1	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/20/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/20/2017	CJR	1
o-Xylene	1.08 "J"	ug/l	0.39	1.25	1	8260B		4/20/2017	CJR	1

Project Name KORTH PROPERTY APPLETON **Invoice #** E32761
Project #

Lab Code 532761XX
Sample ID G-13-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	0.36 "J"	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	0.55 "J"	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761YY
Sample ID G-14-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		4/19/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		4/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		4/19/2017	CJR	1
Naphthalene	3.5 "J"	ug/l	2.17	6.9	1	8260B		4/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		4/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		4/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		4/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		4/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		4/19/2017	CJR	1

Lab Code 532761ZZ
Sample ID G-15-W
Sample Matrix Water
Sample Date 4/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1.6 "J"	ug/l	0.85	2.75	5	8260B		4/20/2017	CJR	1
Ethylbenzene	1.45 "J"	ug/l	1	3.15	5	8260B		4/20/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.1	ug/l	4.1	13	5	8260B		4/20/2017	CJR	1
Naphthalene	186	ug/l	10.85	34.5	5	8260B		4/20/2017	CJR	1
Toluene	< 3.35	ug/l	3.35	10.65	5	8260B		4/20/2017	CJR	1
1,2,4-Trimethylbenzene	< 5.7	ug/l	5.7	18.15	5	8260B		4/20/2017	CJR	1
1,3,5-Trimethylbenzene	< 4.55	ug/l	4.55	14.5	5	8260B		4/20/2017	CJR	1
m&p-Xylene	< 7.8	ug/l	7.8	24.75	5	8260B		4/20/2017	CJR	1
o-Xylene	< 1.95	ug/l	1.95	6.25	5	8260B		4/20/2017	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.
2	Relative percent difference failed for laboratory spiked samples.

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

Environmental Lab, Inc.

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

Chain # Nº 290

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Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) Matthew C Miller

Project (Name / Location): Kurth Property / Appleton, WI

Reports To: Robert Kurth	Invoice To: Robert Kurth
Company	Company c/o MSTCO
Address 802 W. Wisland Ave	Address 709 Gillette St, Ste 3
City State Zip Appleton, WI 54914	City State Zip LaCrosse, WI 54603
Phone 920-470-1092	Phone 608-781-8879
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS	PID/FID
563276 A	G-1-1	4/10/17	9:30		X	N	3	S	MeOH/none			X			X		X							
B	G-2-1		9:50				2					X						X						
C	G-2-2		9:55				1		MeOH									X						
D	G-3-1		10:15				2					X						X						
E	G-3-2		10:20				1											X						
F	G-4-1		10:35				2		None			X						X						
G	G-4-2		10:40				1											X						
H	G-5-1		11:25				2		None			X						X						
I	G-5-2		11:30				1											X						
J	G-6-1		11:45				2		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 MSTCO (Jason P.) (Invoice to MSTCO)

UnC Rates Apply
Agent Status

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	9:45am	4/12/17			

Received in Laboratory By: [signature] Time: 10:00 Date: 4/12/17

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # No 2906

Page 2 of 6

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) Matthew C Mitchell

Project (Name / Location): Korth Property / Appleton, WI

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o MSTCO
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

See Page 1 for Address, City State Zip, and Phone

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS	PID/FID
30527016 K	G-6-2	4/10/17	11:50		X	N	1	S	MeOH Lame									X						
L	G-7-1	"	12:10		"	"	2	"	None			X						X						
M	G-8-1	"	12:30		"	"	2	"	None			X						X						
N	G-8-2	"	12:35		"	"	1	"	"									X						
O	G-9-1	"	1:00		"	"	2	"	None			X						X						
P	G-9-2	"	1:05		"	"	1	"	"									X						
Q	G-10-1	"	1:25		"	"	2	"	None			X						X						
R	G-10-2	"	1:30		"	"	1	"	"									X						
S	G-11-1	"	2:00		"	"	3	"	None			X			X		X							
T	G-11-2	"	2:05		"	"	1	"	"									X						

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

See Page 1.

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Matthew C Mitchell	9:45am	4/12/17			

Received in Laboratory By: [signature] Time: 10:00 Date: 4/12/17

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # № 3080

Page 3 of 6

Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) Matthew C Mikkelson

Project (Name / Location): Korth Property / Appleton, WI

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address	Address
City State Zip See Page 1	City State Zip See Page 1
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS								PID/ FID
503276	G-12-1	4/11/17	2:40		X	N	3	S	MeOH/none			X			X		X														
	G-12-2		2:45				1		MeOH									X													
	G-13-1		3:00				3		none			X			X		X														
	G-13-2		3:05				1											X													
	G-14-1		3:25				3		none			X			X		X														
	G-14-2		3:40				1											X													
	G-15-1	↓	3:50				3		none			X			X		X														
	G-16-1	4/11/17	7:45				3		none			X			X		X														
	G-16-2	↓	7:50				1											X													
	G-17-1	↓	8:00		↓	↓	3	↓	↓ none			X			X		X														

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

See Page 1

Sample Integrity - To be completed by receiving lab

Method of Shipment: Courier

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Matthew C Mikkelson	9:45am	4/12/17			

Received in Laboratory By: [signature] Time: 10:00 Date: 4/12/17

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # No 308[illegible]

Page 4 of 6

Sample Handling Request

____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
x Normal Turn Around

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

Project (Name / Location): Korth Property / Appleton, WI

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o MGTCO
Address	Address
City State Zip	City State Zip
Phone See page 1	Phone See page 1
FAX	FAX

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS	Other Analysis	PID/FID
53276EE	G-17-2	4/11/17	8:05		x	N	1	S	MeOH									x							
FF	G-19-1	~~[illegible]~~	8:20				2		/ none			x						x							
GG	G-19-2	~~[illegible]~~	8:25				1															x			
HH	G-20-1		8:55				2		/ none			x						x							
II	G-20-2		9:00				1											x							
JJ	G-21-1		9:15				3		/ none			x			x		x								
KK	G-22-1		9:40				3		/ none			x			x		x								
LL	G-22-2	↓	9:45				1	↓	↓									x							
MM	G-1-W	4/10/17	9:45				3	GW	HCL									x							
NN	G-2-W	↓	10:05		↓	↓	3	↓	↓									x							

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

See Page 1

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	9:45am	4/12/17			

Received in Laboratory By: [signature] Time: 10:06 Date: 4/12/17

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # Nº 3085

Page 5 of 6

Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) Matthew Crittle

Project (Name / Location): Korth Property / Appleton, WI

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address	Address
City State Zip See page 1	City State Zip See page 1
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS								PID/ FID
532461 00	G-3-w	4/10/12	10:30		X	N	3	GW	HCL									X													
PP	G-4-w		11:10																												
QQ	G-5-w		11:40																												
RR	G-6-w		12:00																												
SS	G-7-w		12:25																												
TT	G-8-w		12:50																												
UU	G-9-w		1:20																												
VV	G-10-w		1:50																												
WW	G-11-w		2:30																												
XX	G-13-w		3:15																												

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

See Page 1

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Courier
Temp. of Temp. Blank ____ °C On Ice: Y
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Matthew Crittle	9:45	4/12/12			

Received in Laboratory By: Christopher J. Rice Time: 10:00 Date: 4/12/12

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # № 287

Page 6 of 6

Sample Handling Request

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

X Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	
Sampler: (signature) [signature]	
Project (Name / Location): Korth Property / Appleton, WI	
Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address	Address
City State Zip	City State Zip
Phone See page 1	Phone See page 1
FAX	FAX

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS	PID/FID
53276 YY	G-14-w	4/10/17	3:40		X	N	3	GW	HCL									X						
ZZ	G-15-w	↓	4:00		X	N	↓	↓	↓									↓						
AAA	G-12-w	4/11/17	7:10		↓	↓	↓	↓	↓									↓						
BBB	G-19-w	↓	8:45		↓	↓	↓	↓	↓									↓						
CCC	G-16-w	↓	8:50		↓	↓	↓	↓	↓									↓						
DDD	G-20-w	↓	9:10		↓	↓	↓	↓	↓									↓						
EEE	G-21-w	↓	9:30		↓	↓	↓	↓	↓									↓						
FFF	G-17-w	4/12/17	7:05am		X	N	3	GW	HCL									X						
GGG	G-22-w	↓	7:15am		↓	↓	↓	↓	↓									X						
HHH	MeOH Blank						1											X						
III	TB																	X						

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

See Page 1

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Client

Temp. of Temp. Blank ____ °C On ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	9:45am	4/12/17			

Received in Laboratory By: [signature] Time: 10:00 Date: 4/12/17

Synergy Environmental Lab,

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

ROBERT KORTH
ROBERT KORTH
802 W. WEILAND AVE.,
APPLETON, WI54914

Report Date *20-Jul-17*

Project Name KORTH PROPERTY **Invoice #** E33235
Project #

Lab Code 5033235A
Sample ID METH BLANK
Sample Matrix Soil
Sample Date 7/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.07	3.41	1	GRO95/8021		7/18/2017	TCC	1
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		7/18/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/18/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		7/18/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		7/18/2017	TCC	1

Project Name KORTH PROPERTY **Invoice #** E33235
Project #

Lab Code 5033235B
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 7/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.0	%			1	5021		7/11/2017	NJC	1
Inorganic										
Metals										
TCLP Lead	< 0.1	mg/l		0.1	1	6010B		7/17/2017	ESC	1
Organic										
General										
Diesel Range Organics	34.8	mg/kg	1.16	3.7	1	DRO95		7/14/2014	NJC	1
GRO/PVOC + Naphthalene										
Gasoline Range Organics	13.6	mg/kg	1.07	3.41	1	GRO95/8021		7/18/2017	TCC	1
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		7/18/2017	TCC	1
Naphthalene	0.59	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/18/2017	TCC	1
1,2,4-Trimethylbenzene	0.067	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
1,3,5-Trimethylbenzene	0.032 "J"	mg/kg	0.011	0.036	1	GRO95/8021		7/18/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		7/18/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		7/18/2017	TCC	1
TCLP										
TCLP Benzene	< 0.05	mg/l	0.05		1	8260B		7/17/2017	ESC	1

Lab Code 5033235C
Sample ID MW-1-3
Sample Matrix Soil
Sample Date 7/10/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.8	%			1	5021		7/11/2017	NJC	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	1.16	3.7	1	DRO95		7/14/2014	NJC	1
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.07	3.41	1	GRO95/8021		7/18/2017	TCC	1
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		7/18/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		7/18/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		7/18/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		7/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		7/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		7/18/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		7/18/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		7/18/2017	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.

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 Ricker*

CHAIN OF CUSTODY RECORD

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

Chain # N2 3118
Page 1 of 1

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

Lab I.D. #:
Account No.: Quote No.:
Project #:
Sampler: (signature)
Project (Name / Location): Korth Property

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address 820 W Weiland Ave	Address 709 Gillette St, Ste 3
City State Zip Appleton, WI 54914	City State Zip La Crosse WI 54603
Phone (920) 470-1092	Phone (608) 781-8879
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS	TCLP - Lead	TCLP - Benzene	PID/FID
503323SH	Meth Blank	7/10					1		MeOH		X							X								
B	MW-1-2	↓	3:20		X		7	5	↓ Water	X	X							X						X	X	
C	MW-1-3	↓	3:25		X		3	5	↓ Water	X	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
Use Rates
Agent Status

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	3:45	7/10/17			

Received in Laboratory By: Time: 3:45 Date: 7/10/17

Synergy Environmental Lab,

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

ROBERT KORTH
ROBERT KORTH
802 W. WEILAND AVE.,
APPLETON, WI54914

Report Date *13-Oct-17*

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624A
Sample ID MW-2
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic											
Metals											
Iron, Dissolved	0.1		mg/l	0.03	0.1	1	200.7		9/25/2017	CWT	1
Lead, Dissolved		< 0.9	ug/L	0.9	3	1	7421		9/26/2017	CWT	1
Manganese, Dissolved	1070		ug/L	4.2	13.8	1	200.7		9/25/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene	3.90		ug/l	0.08	0.25	5	M8270C	9/22/2017	9/25/2017	NJC	1
Acenaphthylene	1.03		ug/l	0.095	0.305	5	M8270C	9/22/2017	9/25/2017	NJC	1
Anthracene	1.11		ug/l	0.095	0.31	5	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)anthracene	0.182 "J"		ug/l	0.085	0.27	5	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)pyrene		< 0.10	ug/l	0.1	0.325	5	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(b)fluoranthene	0.092 "J"		ug/l	0.09	0.29	5	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(g,h,i)perylene		< 0.125	ug/l	0.125	0.405	5	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(k)fluoranthene		< 0.08	ug/l	0.08	0.25	5	M8270C	9/22/2017	9/25/2017	NJC	1
Chrysene	0.183 "J"		ug/l	0.1	0.325	5	M8270C	9/22/2017	9/25/2017	NJC	1
Dibenzo(a,h)anthracene		< 0.125	ug/l	0.125	0.39	5	M8270C	9/22/2017	9/25/2017	NJC	1
Fluoranthene	0.82		ug/l	0.085	0.265	5	M8270C	9/22/2017	9/25/2017	NJC	1
Fluorene	2.09		ug/l	0.105	0.33	5	M8270C	9/22/2017	9/25/2017	NJC	1
Indeno(1,2,3-cd)pyrene		< 0.115	ug/l	0.115	0.37	5	M8270C	9/22/2017	9/25/2017	NJC	1
1-Methyl naphthalene	27.9		ug/l	0.12	0.38	5	M8270C	9/22/2017	9/25/2017	NJC	1
2-Methyl naphthalene	11.8		ug/l	0.12	0.375	5	M8270C	9/22/2017	9/25/2017	NJC	1
Naphthalene	1.63		ug/l	0.125	0.405	5	M8270C	9/22/2017	9/25/2017	NJC	1
Phenanthrene	5.80		ug/l	0.125	0.405	5	M8270C	9/22/2017	9/25/2017	NJC	1
Pyrene	0.79		ug/l	0.1	0.315	5	M8270C	9/22/2017	9/25/2017	NJC	1
VOC's											
Benzene	0.76		ug/l	0.17	0.55	1	8260B		9/26/2017	CJR	1
Bromobenzene		< 0.43	ug/l	0.43	1.37	1	8260B		9/26/2017	CJR	1
Bromodichloromethane		< 0.31	ug/l	0.31	1	1	8260B		9/26/2017	CJR	1
Bromoform		< 0.49	ug/l	0.49	1.56	1	8260B		9/26/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624A
Sample ID MW-2
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
tert-Butylbenzene		< 0.39	ug/l	0.39	1.23	1	8260B		9/26/2017	CJR	1
sec-Butylbenzene	5.3		ug/l	0.24	0.76	1	8260B		9/26/2017	CJR	1
n-Butylbenzene	3.7		ug/l	0.34	1.08	1	8260B		9/26/2017	CJR	1
Carbon Tetrachloride		< 0.21	ug/l	0.21	0.68	1	8260B		9/26/2017	CJR	1
Chlorobenzene		< 0.27	ug/l	0.27	0.86	1	8260B		9/26/2017	CJR	1
Chloroethane		< 0.5	ug/l	0.5	1.6	1	8260B		9/26/2017	CJR	1
Chloroform		< 0.96	ug/l	0.96	3.04	1	8260B		9/26/2017	CJR	1
Chloromethane		< 1.3	ug/l	1.3	4.15	1	8260B		9/26/2017	CJR	1
2-Chlorotoluene		< 0.36	ug/l	0.36	1.15	1	8260B		9/26/2017	CJR	1
4-Chlorotoluene		< 0.35	ug/l	0.35	1.11	1	8260B		9/26/2017	CJR	1
1,2-Dibromo-3-chloropropane		< 1.88	ug/l	1.88	5.98	1	8260B		9/26/2017	CJR	1
Dibromochloromethane		< 0.45	ug/l	0.45	1.44	1	8260B		9/26/2017	CJR	1
1,4-Dichlorobenzene		< 0.42	ug/l	0.42	1.34	1	8260B		9/26/2017	CJR	1
1,3-Dichlorobenzene		< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
1,2-Dichlorobenzene		< 0.34	ug/l	0.34	1.09	1	8260B		9/26/2017	CJR	1
Dichlorodifluoromethane		< 0.38	ug/l	0.38	1.2	1	8260B		9/26/2017	CJR	1
1,2-Dichloroethane		< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
1,1-Dichloroethane		< 0.42	ug/l	0.42	1.34	1	8260B		9/26/2017	CJR	1
1,1-Dichloroethene		< 0.46	ug/l	0.46	1.47	1	8260B		9/26/2017	CJR	1
cis-1,2-Dichloroethene		< 0.41	ug/l	0.41	1.29	1	8260B		9/26/2017	CJR	1
trans-1,2-Dichloroethene		< 0.35	ug/l	0.35	1.12	1	8260B		9/26/2017	CJR	1
1,2-Dichloropropane		< 0.39	ug/l	0.39	1.24	1	8260B		9/26/2017	CJR	1
1,3-Dichloropropane		< 0.49	ug/l	0.49	1.55	1	8260B		9/26/2017	CJR	1
trans-1,3-Dichloropropene		< 0.42	ug/l	0.42	1.33	1	8260B		9/26/2017	CJR	1
cis-1,3-Dichloropropene		< 0.21	ug/l	0.21	0.65	1	8260B		9/26/2017	CJR	1
Di-isopropyl ether		< 0.26	ug/l	0.26	0.83	1	8260B		9/26/2017	CJR	1
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		9/26/2017	CJR	1
Ethylbenzene	0.42 "J"		ug/l	0.2	0.63	1	8260B		9/26/2017	CJR	1
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		9/26/2017	CJR	1
Isopropylbenzene	8.2		ug/l	0.29	0.93	1	8260B		9/26/2017	CJR	1
p-Isopropyltoluene		< 0.28	ug/l	0.28	0.91	1	8260B		9/26/2017	CJR	1
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		9/26/2017	CJR	1
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		9/26/2017	CJR	1
Naphthalene		< 2.17	ug/l	2.17	6.9	1	8260B		9/26/2017	CJR	1
n-Propylbenzene	4.2		ug/l	0.19	0.62	1	8260B		9/26/2017	CJR	1
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		9/26/2017	CJR	1
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		9/26/2017	CJR	1
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		9/26/2017	CJR	1
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		9/26/2017	CJR	1
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		9/26/2017	CJR	1
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		9/26/2017	CJR	1
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		9/26/2017	CJR	1
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		9/26/2017	CJR	1
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		9/26/2017	CJR	1
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		9/26/2017	CJR	1
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/26/2017	CJR	1
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		9/26/2017	CJR	1
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/26/2017	CJR	1
o-Xylene	0.56 "J"		ug/l	0.39	1.25	1	8260B		9/26/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	103		REC %			1	8260B		9/26/2017	CJR	1
SUR - 4-Bromofluorobenzene	115		REC %			1	8260B		9/26/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624A
Sample ID MW-2
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	102		REC %			1	8260B		9/26/2017	CJR	I
SUR - Toluene-d8	100		REC %			1	8260B		9/26/2017	CJR	I
Wet Chemistry											
General											
Nitrite Plus Nitrate, Dissolved		< 0.17	mg/l	0.17	0.53	1	353.2		10/3/2017	NJC	I
Sulfate, Filtered	9.56		mg/l	1.55	4.93	1	ASTM D516-		10/10/2017	NJC	I

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624B
Sample ID MW-3
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic											
Metals											
Iron, Dissolved	0.1		mg/l	0.03	0.1	1	200.7		9/25/2017	CWT	1
Lead, Dissolved		< 0.9	ug/L	0.9	3	1	7421		9/26/2017	CWT	1
Manganese, Dissolved	1170		ug/L	4.2	13.8	1	200.7		9/25/2017	CWT	1
Organic											
PAH SIM											
Acenaphthene	2.66		ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Acenaphthylene	0.262		ug/l	0.019	0.061	1	M8270C	9/22/2017	9/25/2017	NJC	1
Anthracene	0.252		ug/l	0.019	0.062	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)anthracene		< 0.017	ug/l	0.017	0.054	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)pyrene		< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(b)fluoranthene		< 0.018	ug/l	0.018	0.058	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(g,h,i)perylene		< 0.025	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(k)fluoranthene		< 0.016	ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Chrysene		< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Dibenzo(a,h)anthracene		< 0.025	ug/l	0.025	0.078	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluoranthene	0.077		ug/l	0.017	0.053	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluorene	0.79		ug/l	0.021	0.066	1	M8270C	9/22/2017	9/25/2017	NJC	1
Indeno(1,2,3-cd)pyrene		< 0.023	ug/l	0.023	0.074	1	M8270C	9/22/2017	9/25/2017	NJC	1
1-Methyl naphthalene	3.50		ug/l	0.024	0.076	1	M8270C	9/22/2017	9/25/2017	NJC	1
2-Methyl naphthalene	1.27		ug/l	0.024	0.075	1	M8270C	9/22/2017	9/25/2017	NJC	1
Naphthalene	1.41		ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Phenanthrene	2.78		ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Pyrene	0.12		ug/l	0.02	0.063	1	M8270C	9/22/2017	9/25/2017	NJC	1
VOC's											
Benzene	14.8		ug/l	0.17	0.55	1	8260B		9/27/2017	CJR	1
Bromobenzene		< 0.43	ug/l	0.43	1.37	1	8260B		9/27/2017	CJR	1
Bromodichloromethane		< 0.31	ug/l	0.31	1	1	8260B		9/27/2017	CJR	1
Bromoform		< 0.49	ug/l	0.49	1.56	1	8260B		9/27/2017	CJR	1
tert-Butylbenzene		< 0.39	ug/l	0.39	1.23	1	8260B		9/27/2017	CJR	1
sec-Butylbenzene	4.9		ug/l	0.24	0.76	1	8260B		9/27/2017	CJR	1
n-Butylbenzene	1.48		ug/l	0.34	1.08	1	8260B		9/27/2017	CJR	1
Carbon Tetrachloride		< 0.21	ug/l	0.21	0.68	1	8260B		9/27/2017	CJR	1
Chlorobenzene		< 0.27	ug/l	0.27	0.86	1	8260B		9/27/2017	CJR	1
Chloroethane		< 0.5	ug/l	0.5	1.6	1	8260B		9/27/2017	CJR	1
Chloroform		< 0.96	ug/l	0.96	3.04	1	8260B		9/27/2017	CJR	1
Chloromethane		< 1.3	ug/l	1.3	4.15	1	8260B		9/27/2017	CJR	1
2-Chlorotoluene		< 0.36	ug/l	0.36	1.15	1	8260B		9/27/2017	CJR	1
4-Chlorotoluene		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	1
1,2-Dibromo-3-chloropropane		< 1.88	ug/l	1.88	5.98	1	8260B		9/27/2017	CJR	1
Dibromochloromethane		< 0.45	ug/l	0.45	1.44	1	8260B		9/27/2017	CJR	1
1,4-Dichlorobenzene		< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,3-Dichlorobenzene		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,2-Dichlorobenzene		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	1
Dichlorodifluoromethane		< 0.38	ug/l	0.38	1.2	1	8260B		9/27/2017	CJR	1
1,2-Dichloroethane	0.66 "J"		ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethane		< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethene		< 0.46	ug/l	0.46	1.47	1	8260B		9/27/2017	CJR	1
cis-1,2-Dichloroethene		< 0.41	ug/l	0.41	1.29	1	8260B		9/27/2017	CJR	1
trans-1,2-Dichloroethene		< 0.35	ug/l	0.35	1.12	1	8260B		9/27/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624B
Sample ID MW-3
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane		< 0.39	ug/l	0.39	1.24	1	8260B		9/27/2017	CJR	1
1,3-Dichloropropane		< 0.49	ug/l	0.49	1.55	1	8260B		9/27/2017	CJR	1
trans-1,3-Dichloropropene		< 0.42	ug/l	0.42	1.33	1	8260B		9/27/2017	CJR	1
cis-1,3-Dichloropropene		< 0.21	ug/l	0.21	0.65	1	8260B		9/27/2017	CJR	1
Di-isopropyl ether		< 0.26	ug/l	0.26	0.83	1	8260B		9/27/2017	CJR	1
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	1
Ethylbenzene	2.0		ug/l	0.2	0.63	1	8260B		9/27/2017	CJR	1
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		9/27/2017	CJR	1
Isopropylbenzene	6.2		ug/l	0.29	0.93	1	8260B		9/27/2017	CJR	1
p-Isopropyltoluene		< 0.28	ug/l	0.28	0.91	1	8260B		9/27/2017	CJR	1
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		9/27/2017	CJR	1
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		9/27/2017	CJR	1
Naphthalene	2.88 "J"		ug/l	2.17	6.9	1	8260B		9/27/2017	CJR	1
n-Propylbenzene	6.2		ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	1
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		9/27/2017	CJR	1
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		9/27/2017	CJR	1
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		9/27/2017	CJR	1
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		9/27/2017	CJR	1
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		9/27/2017	CJR	1
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		9/27/2017	CJR	1
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	1
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		9/27/2017	CJR	1
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		9/27/2017	CJR	1
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		9/27/2017	CJR	1
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/27/2017	CJR	1
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	1
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/27/2017	CJR	1
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		9/27/2017	CJR	1
SUR - 4-Bromofluorobenzene	104		REC %			1	8260B		9/27/2017	CJR	1
SUR - Dibromofluoromethane	99		REC %			1	8260B		9/27/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	101		REC %			1	8260B		9/27/2017	CJR	1
SUR - Toluene-d8	98		REC %			1	8260B		9/27/2017	CJR	1
Wet Chemistry											
General											
Nitrite Plus Nitrate, Dissolved		< 0.17	mg/l	0.17	0.53	1	353.2		10/3/2017	NJC	1
Sulfate, Filtered	3.98 "J"		mg/l	1.55	4.93	1	ASTM D516-		10/10/2017	NJC	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624C
Sample ID MW-4
Sample Matrix Water
Sample Date 9/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.15	mg/l	0.03	0.1	1	200.7		9/25/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		9/26/2017	CWT	1
Manganese, Dissolved	1420	ug/L	4.2	13.8	1	200.7		9/25/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.52	ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Acenaphthylene	0.051 "J"	ug/l	0.019	0.061	1	M8270C	9/22/2017	9/25/2017	NJC	1
Anthracene	0.039 "J"	ug/l	0.019	0.062	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)anthracene	< 0.017	ug/l	0.017	0.054	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluoranthene	0.0277 "J"	ug/l	0.017	0.053	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluorene	0.276	ug/l	0.021	0.066	1	M8270C	9/22/2017	9/25/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	9/22/2017	9/25/2017	NJC	1
1-Methyl naphthalene	2.65	ug/l	0.024	0.076	1	M8270C	9/22/2017	9/25/2017	NJC	1
2-Methyl naphthalene	0.091	ug/l	0.024	0.075	1	M8270C	9/22/2017	9/25/2017	NJC	1
Naphthalene	2.11	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Phenanthrene	0.055 "J"	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Pyrene	< 0.02	ug/l	0.02	0.063	1	M8270C	9/22/2017	9/25/2017	NJC	1
VOC's										
Benzene	0.29 "J"	ug/l	0.17	0.55	1	8260B		9/27/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		9/27/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		9/27/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		9/27/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		9/27/2017	CJR	1
sec-Butylbenzene	4.8	ug/l	0.24	0.76	1	8260B		9/27/2017	CJR	1
n-Butylbenzene	2.37	ug/l	0.34	1.08	1	8260B		9/27/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		9/27/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		9/27/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		9/27/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		9/27/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		9/27/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		9/27/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		9/27/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		9/27/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		9/27/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		9/27/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		9/27/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		9/27/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624C
Sample ID MW-4
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane		< 0.39	ug/l	0.39	1.24	1	8260B		9/27/2017	CJR	I
1,3-Dichloropropane		< 0.49	ug/l	0.49	1.55	1	8260B		9/27/2017	CJR	I
trans-1,3-Dichloropropene		< 0.42	ug/l	0.42	1.33	1	8260B		9/27/2017	CJR	I
cis-1,3-Dichloropropene		< 0.21	ug/l	0.21	0.65	1	8260B		9/27/2017	CJR	I
Di-isopropyl ether		< 0.26	ug/l	0.26	0.83	1	8260B		9/27/2017	CJR	I
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	I
Ethylbenzene	0.31 "J"		ug/l	0.2	0.63	1	8260B		9/27/2017	CJR	I
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		9/27/2017	CJR	I
Isopropylbenzene	6.6		ug/l	0.29	0.93	1	8260B		9/27/2017	CJR	I
p-Isopropyltoluene	0.29 "J"		ug/l	0.28	0.91	1	8260B		9/27/2017	CJR	I
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		9/27/2017	CJR	I
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		9/27/2017	CJR	I
Naphthalene	9.8		ug/l	2.17	6.9	1	8260B		9/27/2017	CJR	I
n-Propylbenzene	6.6		ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	I
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		9/27/2017	CJR	I
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		9/27/2017	CJR	I
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		9/27/2017	CJR	I
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		9/27/2017	CJR	I
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		9/27/2017	CJR	I
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		9/27/2017	CJR	I
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	I
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		9/27/2017	CJR	I
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	I
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		9/27/2017	CJR	I
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		9/27/2017	CJR	I
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/27/2017	CJR	I
Vinyl Chloride	0.27 "J"		ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	I
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/27/2017	CJR	I
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		9/27/2017	CJR	I
SUR - Dibromofluoromethane	97		REC %			1	8260B		9/27/2017	CJR	I
SUR - Toluene-d8	100		REC %			1	8260B		9/27/2017	CJR	I
SUR - 4-Bromofluorobenzene	102		REC %			1	8260B		9/27/2017	CJR	I
SUR - 1,2-Dichloroethane-d4	97		REC %			1	8260B		9/27/2017	CJR	I
Wet Chemistry											
General											
Nitrite Plus Nitrate, Dissolved		< 0.17	mg/l	0.17	0.53	1	353.2		10/3/2017	NJC	I
Sulfate, Filtered	6.58		mg/l	1.55	4.93	1	ASTM D516-		10/10/2017	NJC	I

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624D
Sample ID MW-5
Sample Matrix Water
Sample Date 9/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.11	mg/l	0.03	0.1	1	200.7		9/25/2017	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		9/26/2017	CWT	1
Manganese, Dissolved	732	ug/L	4.2	13.8	1	200.7		9/25/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.095	ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	9/22/2017	9/25/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)anthracene	0.0174 "J"	ug/l	0.017	0.054	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(b)fluoranthene	0.0268 "J"	ug/l	0.018	0.058	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(g,h,i)perylene	0.0278 "J"	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	9/22/2017	9/25/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	9/22/2017	9/25/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluoranthene	0.055	ug/l	0.017	0.053	1	M8270C	9/22/2017	9/25/2017	NJC	1
Fluorene	0.031 "J"	ug/l	0.021	0.066	1	M8270C	9/22/2017	9/25/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	9/22/2017	9/25/2017	NJC	1
1-Methyl naphthalene	1.42	ug/l	0.024	0.076	1	M8270C	9/22/2017	9/25/2017	NJC	1
2-Methyl naphthalene	0.059 "J"	ug/l	0.024	0.075	1	M8270C	9/22/2017	9/25/2017	NJC	1
Naphthalene	0.89	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Phenanthrene	0.0296 "J"	ug/l	0.025	0.081	1	M8270C	9/22/2017	9/25/2017	NJC	1
Pyrene	0.0271 "J"	ug/l	0.02	0.063	1	M8270C	9/22/2017	9/25/2017	NJC	1
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		9/27/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		9/27/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		9/27/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		9/27/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		9/27/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		9/27/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		9/27/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		9/27/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		9/27/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		9/27/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		9/27/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		9/27/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		9/27/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		9/27/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		9/27/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		9/27/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		9/27/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		9/27/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		9/27/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624D
Sample ID MW-5
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane		< 0.39	ug/l	0.39	1.24	1	8260B		9/27/2017	CJR	I
1,3-Dichloropropane		< 0.49	ug/l	0.49	1.55	1	8260B		9/27/2017	CJR	I
trans-1,3-Dichloropropene		< 0.42	ug/l	0.42	1.33	1	8260B		9/27/2017	CJR	I
cis-1,3-Dichloropropene		< 0.21	ug/l	0.21	0.65	1	8260B		9/27/2017	CJR	I
Di-isopropyl ether		< 0.26	ug/l	0.26	0.83	1	8260B		9/27/2017	CJR	I
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	I
Ethylbenzene		< 0.2	ug/l	0.2	0.63	1	8260B		9/27/2017	CJR	I
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		9/27/2017	CJR	I
Isopropylbenzene		< 0.29	ug/l	0.29	0.93	1	8260B		9/27/2017	CJR	I
p-Isopropyltoluene		< 0.28	ug/l	0.28	0.91	1	8260B		9/27/2017	CJR	I
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		9/27/2017	CJR	I
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		9/27/2017	CJR	I
Naphthalene	3.9 "J"		ug/l	2.17	6.9	1	8260B		9/27/2017	CJR	I
n-Propylbenzene	0.38 "J"		ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	I
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		9/27/2017	CJR	I
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		9/27/2017	CJR	I
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		9/27/2017	CJR	I
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		9/27/2017	CJR	I
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		9/27/2017	CJR	I
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		9/27/2017	CJR	I
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	I
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		9/27/2017	CJR	I
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	I
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		9/27/2017	CJR	I
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		9/27/2017	CJR	I
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/27/2017	CJR	I
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	I
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/27/2017	CJR	I
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		9/27/2017	CJR	I
SUR - 1,2-Dichloroethane-d4	100		REC %			1	8260B		9/27/2017	CJR	I
SUR - 4-Bromofluorobenzene	107		REC %			1	8260B		9/27/2017	CJR	I
SUR - Dibromofluoromethane	95		REC %			1	8260B		9/27/2017	CJR	I
SUR - Toluene-d8	101		REC %			1	8260B		9/27/2017	CJR	I
Wet Chemistry											
General											
Nitrite Plus Nitrate, Dissolved		< 0.17	mg/l	0.17	0.53	1	353.2		10/3/2017	NJC	I
Sulfate, Filtered	14.2		mg/l	1.55	4.93	1	ASTM D516-		10/10/2017	NJC	I

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624E
Sample ID MW-1
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic											
Metals											
Iron, Dissolved	0.22		mg/l	0.03	0.1	1	200.7		9/25/2017	CWT	I
Lead, Dissolved		< 0.9	ug/L	0.9	3	1	7421		9/26/2017	CWT	I
Manganese, Dissolved	2330		ug/L	4.2	13.8	1	200.7		9/25/2017	CWT	I
Organic											
PAH SIM											
Acenaphthene	0.81		ug/l	0.032	0.1	2	M8270C	9/22/2017	9/26/2017	NJC	I
Acenaphthylene	0.172		ug/l	0.038	0.122	2	M8270C	9/22/2017	9/26/2017	NJC	I
Anthracene	0.055 "J"		ug/l	0.038	0.124	2	M8270C	9/22/2017	9/26/2017	NJC	I
Benzo(a)anthracene		< 0.034	ug/l	0.034	0.108	2	M8270C	9/22/2017	9/26/2017	NJC	I
Benzo(a)pyrene		< 0.04	ug/l	0.04	0.13	2	M8270C	9/22/2017	9/26/2017	NJC	I
Benzo(b)fluoranthene		< 0.036	ug/l	0.036	0.116	2	M8270C	9/22/2017	9/26/2017	NJC	I
Benzo(g,h,i)perylene		< 0.05	ug/l	0.05	0.162	2	M8270C	9/22/2017	9/26/2017	NJC	I
Benzo(k)fluoranthene		< 0.032	ug/l	0.032	0.1	2	M8270C	9/22/2017	9/26/2017	NJC	I
Chrysene		< 0.04	ug/l	0.04	0.13	2	M8270C	9/22/2017	9/26/2017	NJC	I
Dibenzo(a,h)anthracene		< 0.05	ug/l	0.05	0.156	2	M8270C	9/22/2017	9/26/2017	NJC	I
Fluoranthene	0.04 "J"		ug/l	0.034	0.106	2	M8270C	9/22/2017	9/26/2017	NJC	I
Fluorene	0.73		ug/l	0.042	0.132	2	M8270C	9/22/2017	9/26/2017	NJC	I
Indeno(1,2,3-cd)pyrene		< 0.046	ug/l	0.046	0.148	2	M8270C	9/22/2017	9/26/2017	NJC	I
1-Methyl naphthalene	4.20		ug/l	0.048	0.152	2	M8270C	9/22/2017	9/26/2017	NJC	I
2-Methyl naphthalene	2.07		ug/l	0.048	0.15	2	M8270C	9/22/2017	9/26/2017	NJC	I
Naphthalene	9.60		ug/l	0.05	0.162	2	M8270C	9/22/2017	9/26/2017	NJC	I
Phenanthrene	0.55		ug/l	0.05	0.162	2	M8270C	9/22/2017	9/26/2017	NJC	I
Pyrene		< 0.04	ug/l	0.04	0.126	2	M8270C	9/22/2017	9/26/2017	NJC	I
VOC's											
Benzene	7.6		ug/l	0.17	0.55	1	8260B		9/27/2017	CJR	I
Bromobenzene		< 0.43	ug/l	0.43	1.37	1	8260B		9/27/2017	CJR	I
Bromodichloromethane		< 0.31	ug/l	0.31	1	1	8260B		9/27/2017	CJR	I
Bromoform		< 0.49	ug/l	0.49	1.56	1	8260B		9/27/2017	CJR	I
tert-Butylbenzene		< 0.39	ug/l	0.39	1.23	1	8260B		9/27/2017	CJR	I
sec-Butylbenzene	1.86		ug/l	0.24	0.76	1	8260B		9/27/2017	CJR	I
n-Butylbenzene	1.15		ug/l	0.34	1.08	1	8260B		9/27/2017	CJR	I
Carbon Tetrachloride		< 0.21	ug/l	0.21	0.68	1	8260B		9/27/2017	CJR	I
Chlorobenzene		< 0.27	ug/l	0.27	0.86	1	8260B		9/27/2017	CJR	I
Chloroethane		< 0.5	ug/l	0.5	1.6	1	8260B		9/27/2017	CJR	I
Chloroform		< 0.96	ug/l	0.96	3.04	1	8260B		9/27/2017	CJR	I
Chloromethane		< 1.3	ug/l	1.3	4.15	1	8260B		9/27/2017	CJR	I
2-Chlorotoluene		< 0.36	ug/l	0.36	1.15	1	8260B		9/27/2017	CJR	I
4-Chlorotoluene		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	I
1,2-Dibromo-3-chloropropane		< 1.88	ug/l	1.88	5.98	1	8260B		9/27/2017	CJR	I
Dibromochloromethane		< 0.45	ug/l	0.45	1.44	1	8260B		9/27/2017	CJR	I
1,4-Dichlorobenzene		< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	I
1,3-Dichlorobenzene		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	I
1,2-Dichlorobenzene		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	I
Dichlorodifluoromethane		< 0.38	ug/l	0.38	1.2	1	8260B		9/27/2017	CJR	I
1,2-Dichloroethane		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	I
1,1-Dichloroethane		< 0.42	ug/l	0.42	1.34	1	8260B		9/27/2017	CJR	I
1,1-Dichloroethene		< 0.46	ug/l	0.46	1.47	1	8260B		9/27/2017	CJR	I
cis-1,2-Dichloroethene		< 0.41	ug/l	0.41	1.29	1	8260B		9/27/2017	CJR	I
trans-1,2-Dichloroethene		< 0.35	ug/l	0.35	1.12	1	8260B		9/27/2017	CJR	I

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624E
Sample ID MW-1
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2-Dichloropropane		< 0.39	ug/l	0.39	1.24	1	8260B		9/27/2017	CJR	1
1,3-Dichloropropane		< 0.49	ug/l	0.49	1.55	1	8260B		9/27/2017	CJR	1
trans-1,3-Dichloropropene		< 0.42	ug/l	0.42	1.33	1	8260B		9/27/2017	CJR	1
cis-1,3-Dichloropropene		< 0.21	ug/l	0.21	0.65	1	8260B		9/27/2017	CJR	1
Di-isopropyl ether	1.1		ug/l	0.26	0.83	1	8260B		9/27/2017	CJR	1
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		9/27/2017	CJR	1
Ethylbenzene	0.43 "J"		ug/l	0.2	0.63	1	8260B		9/27/2017	CJR	1
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		9/27/2017	CJR	1
Isopropylbenzene	2.14		ug/l	0.29	0.93	1	8260B		9/27/2017	CJR	1
p-Isopropyltoluene	0.46 "J"		ug/l	0.28	0.91	1	8260B		9/27/2017	CJR	1
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		9/27/2017	CJR	1
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		9/27/2017	CJR	1
Naphthalene	34		ug/l	2.17	6.9	1	8260B		9/27/2017	CJR	1
n-Propylbenzene	1.95		ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	1
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		9/27/2017	CJR	1
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		9/27/2017	CJR	1
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		9/27/2017	CJR	1
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		9/27/2017	CJR	1
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		9/27/2017	CJR	1
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		9/27/2017	CJR	1
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		9/27/2017	CJR	1
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		9/27/2017	CJR	1
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		9/27/2017	CJR	1
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		9/27/2017	CJR	1
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		9/27/2017	CJR	1
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/27/2017	CJR	1
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		9/27/2017	CJR	1
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/27/2017	CJR	1
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		9/27/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98		REC %			1	8260B		9/27/2017	CJR	1
SUR - 4-Bromofluorobenzene	106		REC %			1	8260B		9/27/2017	CJR	1
SUR - Dibromofluoromethane	95		REC %			1	8260B		9/27/2017	CJR	1
SUR - Toluene-d8	97		REC %			1	8260B		9/27/2017	CJR	1
Wet Chemistry											
General											
Nitrite Plus Nitrate, Dissolved		< 0.17	mg/l	0.17	0.53	1	353.2		10/3/2017	NJC	1
Sulfate, Filtered	21.7		mg/l	1.55	4.93	1	ASTM D516-		10/10/2017	NJC	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624F
Sample ID TB
Sample Matrix Water
Sample Date 9/20/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		9/26/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		9/26/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		9/26/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		9/26/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		9/26/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		9/26/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		9/26/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		9/26/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		9/26/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		9/26/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		9/26/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		9/26/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		9/26/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		9/26/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		9/26/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		9/26/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		9/26/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		9/26/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		9/26/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		9/26/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		9/26/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		9/26/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		9/26/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		9/26/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		9/26/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		9/26/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		9/26/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		9/26/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		9/26/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		9/26/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		9/26/2017	CJR	1
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		9/26/2017	CJR	1
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		9/26/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		9/26/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		9/26/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		9/26/2017	CJR	1
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		9/26/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		9/26/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		9/26/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		9/26/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		9/26/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		9/26/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		9/26/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		9/26/2017	CJR	1
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		9/26/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		9/26/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		9/26/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		9/26/2017	CJR	1

Project Name KORTH PROPERTY **Invoice #** E33624
Project #

Lab Code 5033624F
Sample ID TB
Sample Matrix Water
Sample Date 9/20/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		9/26/2017	CJR	1
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		9/26/2017	CJR	1
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		9/26/2017	CJR	1
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		9/26/2017	CJR	1
SUR - Toluene-d8	101		REC %			1	8260B		9/26/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	106		REC %			1	8260B		9/26/2017	CJR	1
SUR - 4-Bromofluorobenzene	102		REC %			1	8260B		9/26/2017	CJR	1
SUR - Dibromofluoromethane	102		REC %			1	8260B		9/26/2017	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

Environmental Lab, Inc.

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

Chain # № 304..

Page 1 of 1

Sample Handling Request

___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #:	
Account No.:	Quote No.:
Project #:	
Sampler: (signature) [signature]	
Project (Name / Location): Korth Property	
Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address 820 W Weiland Ave	Address 709 Gillette Street, Suite 3
City State Zip Appleton, WI 54914	City State Zip La Crosse, WI 54603
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S033624 A	MW-2	9/20/17	910			Y	7	GW	HCl, HNO_3, H_2SO_4, None
B	MW-3	↓	935			↓	↓	↓	↓
C	MW-4	↓	1115			↓	↓	↓	↓
D	MW-5	↓	1140			↓	↓	↓	↓
E	MW-1	↓	1220			↓	↓	↓	↓
F	TB						1		HCl

Analysis Requested / **Other Analysis**

Sample I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Dissolved)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Dissolved Iron	Dissolved Manganese	PID/FID
MW-2			X	X		X				X			X		X	X	
MW-3			X	X		X				X			X		X	X	
MW-4			X	X		X				X			X		X	X	
MW-5			X	X		X				X			X		X	X	
MW-1			X	X		X				X			X		X	X	
TB													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/Jason P. (Invoice to METCO)
*U+C rates Apply
*Agent Status

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	8:00AM	9/21/17			

Received in Laboratory By: [signature] Time: 8:00 Date: 9/22/17

Synergy Environmental Lab,

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

ROBERT KORTH
ROBERT KORTH
820 W. WEILAND AVE.,
APPLETON, WI54914

Report Date *02-Jan-18*

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

Lab Code 5034049A
Sample ID MW-2
Sample Matrix Water
Sample Date 12/14/2017

	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		12/22/2017	CWT	I
Organic										
PAH SIM										
Acenaphthene	2.71	ug/l	0.08	0.25	5	M8270C	12/19/2017	12/20/2017	NJC	I
Acenaphthylene	0.50	ug/l	0.095	0.305	5	M8270C	12/19/2017	12/20/2017	NJC	I
Anthracene	0.63	ug/l	0.095	0.31	5	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(a)anthracene	0.12 "J"	ug/l	0.085	0.27	5	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(a)pyrene	< 0.10	ug/l	0.1	0.325	5	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(b)fluoranthene	< 0.09	ug/l	0.09	0.29	5	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(g,h,i)perylene	< 0.125	ug/l	0.125	0.405	5	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(k)fluoranthene	< 0.08	ug/l	0.08	0.25	5	M8270C	12/19/2017	12/20/2017	NJC	I
Chrysene	< 0.10	ug/l	0.1	0.325	5	M8270C	12/19/2017	12/20/2017	NJC	I
Dibenzo(a,h)anthracene	< 0.125	ug/l	0.125	0.39	5	M8270C	12/19/2017	12/20/2017	NJC	I
Fluoranthene	0.166 "J"	ug/l	0.085	0.265	5	M8270C	12/19/2017	12/20/2017	NJC	I
Fluorene	0.74	ug/l	0.105	0.33	5	M8270C	12/19/2017	12/20/2017	NJC	I
Indeno(1,2,3-cd)pyrene	< 0.115	ug/l	0.115	0.37	5	M8270C	12/19/2017	12/20/2017	NJC	I
1-Methyl naphthalene	12.1	ug/l	0.12	0.38	5	M8270C	12/19/2017	12/20/2017	NJC	I
2-Methyl naphthalene	3.60	ug/l	0.12	0.375	5	M8270C	12/19/2017	12/20/2017	NJC	I
Naphthalene	1.22	ug/l	0.125	0.405	5	M8270C	12/19/2017	12/20/2017	NJC	I
Phenanthrene	1.85	ug/l	0.125	0.405	5	M8270C	12/19/2017	12/20/2017	NJC	I
Pyrene	0.275 "J"	ug/l	0.1	0.315	5	M8270C	12/19/2017	12/20/2017	NJC	I
PVOC										
Benzene	0.83 "J"	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	I
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	I
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	I
Toluene	0.54 "J"	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	I
1,2,4-Trimethylbenzene	1.15 "J"	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	I
1,3,5-Trimethylbenzene	0.61 "J"	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	I

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

Lab Code 5034049A
Sample ID MW-2
Sample Matrix Water
Sample Date 12/14/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	I
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	I

Lab Code 5034049B
Sample ID MW-3
Sample Matrix Water
Sample Date 12/14/2017

	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		12/22/2017	CWT	I
Organic										
PAH SIM										
Acenaphthene	1.80	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	I
Acenaphthylene	0.193	ug/l	0.019	0.061	1	M8270C	12/19/2017	12/20/2017	NJC	I
Anthracene	0.276	ug/l	0.019	0.062	1	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(a)anthracene	0.0212 "J"	ug/l	0.017	0.054	1	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	I
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	I
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	I
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	12/19/2017	12/20/2017	NJC	I
Fluoranthene	0.0311 "J"	ug/l	0.017	0.053	1	M8270C	12/19/2017	12/20/2017	NJC	I
Fluorene	0.41	ug/l	0.021	0.066	1	M8270C	12/19/2017	12/20/2017	NJC	I
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	12/19/2017	12/20/2017	NJC	I
1-Methyl naphthalene	5.30	ug/l	0.024	0.076	1	M8270C	12/19/2017	12/20/2017	NJC	I
2-Methyl naphthalene	0.129	ug/l	0.024	0.075	1	M8270C	12/19/2017	12/20/2017	NJC	I
Naphthalene	1.05	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	I
Phenanthrene	2.26	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	I
Pyrene	0.082	ug/l	0.02	0.063	1	M8270C	12/19/2017	12/20/2017	NJC	I
PVOC										
Benzene	3.7	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	I
Ethylbenzene	0.85 "J"	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	I
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	I
Toluene	0.52 "J"	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	I
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	I
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	I
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	I
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	I

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

Lab Code 5034049C
Sample ID MW-4
Sample Matrix Water
Sample Date 12/14/2017

	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		12/22/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.69	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Acenaphthylene	0.051 "J"	ug/l	0.019	0.061	1	M8270C	12/19/2017	12/20/2017	NJC	1
Anthracene	0.049 "J"	ug/l	0.019	0.062	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)anthracene	0.0283 "J"	ug/l	0.017	0.054	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(b)fluoranthene	0.0289 "J"	ug/l	0.018	0.058	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(g,h,i)perylene	0.041 "J"	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Chrysene	0.0213 "J"	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluoranthene	0.043 "J"	ug/l	0.017	0.053	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluorene	0.0216 "J"	ug/l	0.021	0.066	1	M8270C	12/19/2017	12/20/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	12/19/2017	12/20/2017	NJC	1
1-Methyl naphthalene	0.44	ug/l	0.024	0.076	1	M8270C	12/19/2017	12/20/2017	NJC	1
2-Methyl naphthalene	0.09	ug/l	0.024	0.075	1	M8270C	12/19/2017	12/20/2017	NJC	1
Naphthalene	0.62	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Phenanthrene	0.167	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Pyrene	0.048 "J"	ug/l	0.02	0.063	1	M8270C	12/19/2017	12/20/2017	NJC	1
PVOC										
Benzene	0.40 "J"	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	1
Toluene	0.37 "J"	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	1

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

Lab Code 5034049D
Sample ID MW-5
Sample Matrix Water
Sample Date 12/14/2017

	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		12/22/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.016	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Acenaphthylene	< 0.019	ug/l	0.019	0.061	1	M8270C	12/19/2017	12/20/2017	NJC	1
Anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)anthracene	0.0222 "J"	ug/l	0.017	0.054	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(b)fluoranthene	0.021 "J"	ug/l	0.018	0.058	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluoranthene	0.0217 "J"	ug/l	0.017	0.053	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluorene	< 0.021	ug/l	0.021	0.066	1	M8270C	12/19/2017	12/20/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	12/19/2017	12/20/2017	NJC	1
1-Methyl naphthalene	0.054 "J"	ug/l	0.024	0.076	1	M8270C	12/19/2017	12/20/2017	NJC	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.075	1	M8270C	12/19/2017	12/20/2017	NJC	1
Naphthalene	0.036 "J"	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Phenanthrene	< 0.025	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Pyrene	0.0206 "J"	ug/l	0.02	0.063	1	M8270C	12/19/2017	12/20/2017	NJC	1
PVOC										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	1

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

Lab Code 5034049E
Sample ID MW-1
Sample Matrix Water
Sample Date 12/14/2017

	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		12/22/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.59	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Acenaphthylene	0.0194 "J"	ug/l	0.019	0.061	1	M8270C	12/19/2017	12/20/2017	NJC	1
Anthracene	0.114	ug/l	0.019	0.062	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)anthracene	0.0212 "J"	ug/l	0.017	0.054	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(b)fluoranthene	< 0.018	ug/l	0.018	0.058	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(g,h,i)perylene	< 0.025	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Benzo(k)fluoranthene	< 0.016	ug/l	0.016	0.05	1	M8270C	12/19/2017	12/20/2017	NJC	1
Chrysene	< 0.02	ug/l	0.02	0.065	1	M8270C	12/19/2017	12/20/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluoranthene	0.0286 "J"	ug/l	0.017	0.053	1	M8270C	12/19/2017	12/20/2017	NJC	1
Fluorene	0.103	ug/l	0.021	0.066	1	M8270C	12/19/2017	12/20/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.023	ug/l	0.023	0.074	1	M8270C	12/19/2017	12/20/2017	NJC	1
1-Methyl naphthalene	0.60	ug/l	0.024	0.076	1	M8270C	12/19/2017	12/20/2017	NJC	1
2-Methyl naphthalene	0.76	ug/l	0.024	0.075	1	M8270C	12/19/2017	12/20/2017	NJC	1
Naphthalene	0.50	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Phenanthrene	0.211	ug/l	0.025	0.081	1	M8270C	12/19/2017	12/20/2017	NJC	1
Pyrene	0.04 "J"	ug/l	0.02	0.063	1	M8270C	12/19/2017	12/20/2017	NJC	1
PVOC										
Benzene	5.0	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	1
Ethylbenzene	0.67 "J"	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	1
1,3,5-Trimethylbenzene	0.66 "J"	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	1

Lab Code 5034049F
Sample ID TB
Sample Matrix Water
Sample Date 12/14/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		12/18/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		12/18/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		12/18/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		12/18/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		12/18/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		12/18/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		12/18/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		12/18/2017	TCC	1

Project Name KORTH PROPERTY **Invoice #** E34049
Project #

"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
Environmental Lab, Inc.

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

Chain # № 33(6

Page 1 of 1

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #:

Sampler: (signature) [signature]

Project (Name / Location): Korth Property / Appleton

Reports To: Robert Korth	Invoice To: Robert Korth
Company	Company c/o METCO
Address N2982 Steeple Drive	Address 709 Gillette Street, Suite 3
City State Zip Appleton, WI 54913	City State Zip La Crosse, WI 54603
Phone	Phone
FAX	FAX

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Dissolved)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS								PID/FID
5054049A	MW-2	12/14/17	1030			Y	5	GW	HCl, HNO_3, None			X			X		X														
B	MW-3	↓	1055			↓	↓	↓	↓			X			X		X														
C	MW-4	↓	1130			↓	↓	↓	↓			X			X		X														
D	MW-5	↓	1155			↓	↓	↓	↓			X			X		X														
E	MW-1	↓	1225			↓	↓	↓	↓			X			X		X														
F	TB						1		HCl								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/Jason P. (Invoice to METCO)
* U+C rates apply
* Agent Status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: [illegible]
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	8:00 AM	12/15/16			

Received in Laboratory By: [signature] Time: 10:00 Date: 12/16/17

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM
Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
Korth Property	445198270		3/6/2018	Jon Jensen/METCO

WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N/E	Dir. S/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			562597.86	X																	
VR664	MW-1		820759.94	X		7/10/2017	2	P	813.02	813.53	X		3	12.8	13	10	11/mw	A	X		
			562617.23	X																	
VR665	MW-2		820783.53	X		7/10/2017	2	P	812.89	813.31	X		3	3.95	13	10	11/mw	A		D	12
			562600.33	X																	
VR666	MW-3		820739.11	X		7/10/2017	2	P	813.47	813.9	X		3	2.54	13	10	11/mw	A		S	21
			562559.35	X																	
VR667	MW-4		820737.97	X		7/10/2017	2	P	813.79	814.33	X		3	4.56	13	10	11/mw	A		D	29
			562543.23	X																	
VR668	MW-5		820798.53	X		7/10/2017	2	P	813.3	813.94	X		3	3.72	13	10	11/mw	A		S	12

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

Grid Origin Location: (Check if estimated: ☐)
Lat. 44 ° 15 ' 47 " Long. 88 ° 25 ' 57 " 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.

State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name: Korth Property	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VR664 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 07/10/2017 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: 1/4 of 1/4 of Sec. ____ T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil + Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

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

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

13. Sieve analysis performed? ☐ Yes ☒ No

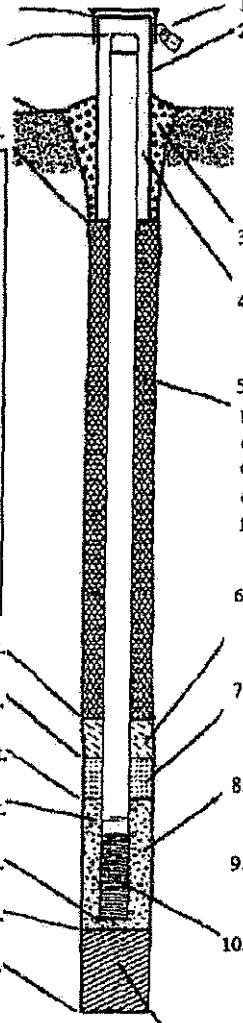
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

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

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

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

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 14 ft.
K. Borehole, bottom _____ ft. MSL or 14 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



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

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

Signature: 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.

State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name: North Property	Local Grid Location of Well ☐ ft. ☐ N. ☐ S. ☐ ft. ☐ E. ☐ W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VR665 / DNR Well ID No.
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 07/10/2017 (m m d d Y Y Y Y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N. R. ☐ E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

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

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

13. Sieve analysis performed? ☐ Yes ☒ No

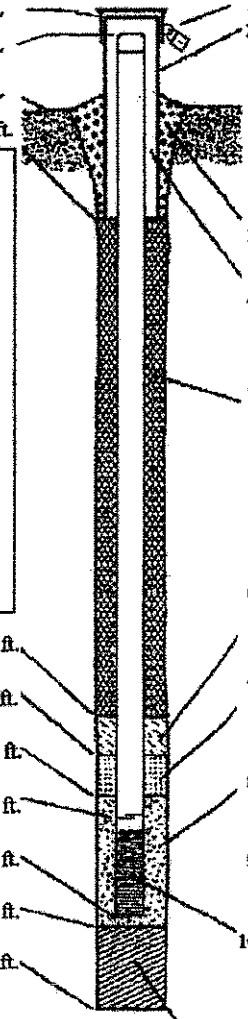
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

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

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

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

E. Bentonite seal, top _____ ft. MSL or .5 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 14 ft.
K. Borehole, bottom _____ ft. MSL or 14 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



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

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

Signature: 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.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Korth Property	Local Grid Location of Well: ft. ☐N ☐S, ft. ☐E ☐W	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VR666 / DNR Well ID No.
Facility ID	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 07/12/2017 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: 1/4 of 1/4 of Sec. T. N, R. ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

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

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

13. Sieve analysis performed? ☐ Yes ☒ No

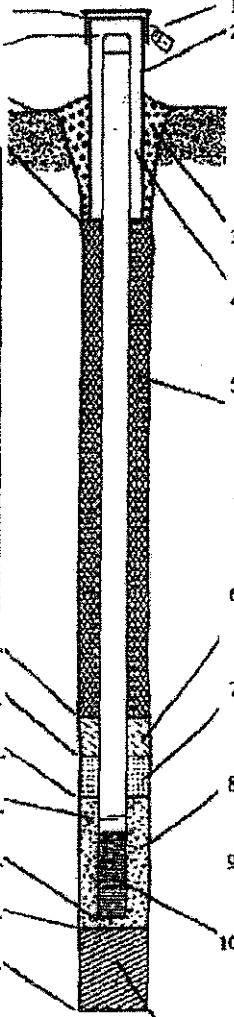
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

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

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

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

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 14 ft.
K. Borehole, bottom _____ ft. MSL or 14 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



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

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

Signature: 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.

State of Wisconsin
Department of Natural Resources

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

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

Facility/Project Name: Korth Property
Facility License, Permit or Monitoring No.:
Facility ID:
Type of Well: Well Code 11 / MW
Distance from Waste/Source _____ ft. | Enf. Stds. Apply ☐

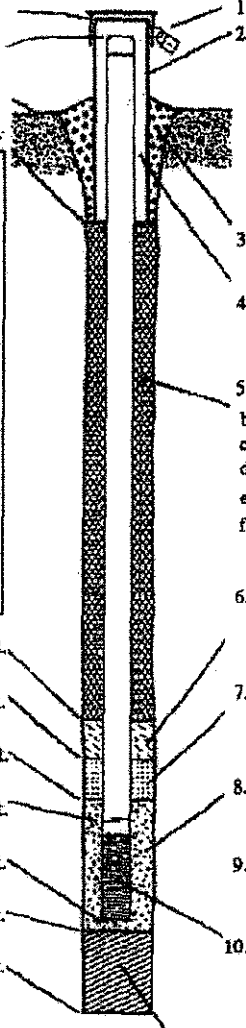
Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.
Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. ° ' " Long. ° ' " or
St. Plane _____ ft. N, _____ ft. E. S/C/N
Section Location of Waste/Source: 1/4 of 1/4 of Sec. , T. N, R. ☐E ☐W
Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
Gov. Lot Number:

Well Name: MW-4
Wis. Unique Well No.: VR667 | DNR Well ID No.:
Date Well Installed: 01/02/2017 (m m d d y y y y)
Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC

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):

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 14 ft.
K. Borehole, bottom _____ ft. MSL or 14 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.



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

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

Signature: 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.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Korth Property	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VR668 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 07/10/2017 (m m d d Y Y Y Y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

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

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

13. Sieve analysis performed? ☐ Yes ☒ No

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

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

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

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

E. Bentonite seal, top _____ ft. MSL or 5 ft.
F. Fine sand, top _____ ft. MSL or 2 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 14 ft.
K. Borehole, bottom _____ ft. MSL or 14 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.

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

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

Signature: 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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Korth Property	OUTAGAMIE	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	45	VR665	

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

2. Well development method

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

3. Time spent developing well 120 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 9.9 gal.

7. Volume of water removed from well 55 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.95 ft.	4.42 ft.
Date	b. 07 / 11 / 2017 (m m d d y y y y)	7/ /11/ /2017 (m m d d y y y y)
Time	c. 09 : 25 [X] a.m. ☐ p.m.	11 : 25 [X] a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Brown	Clear
	High Turbidity	Low Turbidity
	Petro Odor & Sheen	Petro Odor & Sheen

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: Robert Last Name: Korth
Facility/Firm: _____
Street: 820 W Weiland Ave.
City/State/Zip: Appleton WI 54914-

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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Korth Property	OUTAGAMIE	MW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	45	VR666	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

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

3. Time spent developing well 130 min.

4. Depth of well (from top of casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 11.5 gal.

7. Volume of water removed from well 15 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 2.54 ft.	11.4 ft.
Date	b. 07 / 11 / 2017 (m m d d y y y y)	7/ / 11/ /2017
Time	c. 09 : 00 [X] a.m. ☐ p.m.	11 : 10 [X] a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Tan	Light Tan
	High Turbidity	Low Turbidity
	Slight Petro Odor	Slight Petro Odor

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: Robert Last Name: Korth
Facility/Firm: _____
Street: 820 W Weiland Ave.
City/State/Zip: Appleton WI 54914-

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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Korth Property	OUTAGAMIE	MW-4
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	45	VR667	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

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

3. Time spent developing well 135 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 9.3 gal.

7. Volume of water removed from well 12 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.56 ft.	11.98 ft.
Date	b. 07 / 11 / 2017 (m m d d y y y y)	7/11/2017 (m m d d y y y y)
Time	c. 08 : 45 [X] a.m. ☐ p.m.	11 : 00 [X] a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Tan	Light Tan
	High Turbidity	Low Turbidity
	Slight Petro Odor	Slight Petro Odor

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: Robert Last Name: Korth
Facility/Firm: _____
Street: 820 W Weiland Ave.
City/State/Zip: Appleton WI 54914-

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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Korth Property	OUTAGAMIE	MW-5
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	45	VR668	

	Before Development	After Development
1. Can this well be purged dry?	[X] Yes ☐ No	
2. Well development method		
surged with bailer and bailed	[X] 41	
surged with bailer and pumped	☐ 61	
surged with block and bailed	☐ 42	
surged with block and pumped	☐ 62	
surged with block, bailed and pumped	☐ 70	
compressed air	☐ 20	
bailed only	☐ 10	
pumped only	☐ 51	
pumped slowly	☐ 50	
Other _____	☐	
11. Depth to Water (from top of well casing)	a. 3.72 ft.	11.42 ft.
Date	b. 07 / 11 / 2017 (m m d d y y y y)	7/ / 11/ / 2017 (m m d d y y y y)
Time	c. 08 : 30 [X] a.m. ☐ p.m.	10 : 50 [X] a.m. ☐ p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Tan	Light Tan
	High Turbidity	Low Turbidity
	Slight Petro Odor	Slight Petro Odor

3. Time spent developing well 140 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 10.2 gal.

7. Volume of water removed from well 15 gal.

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

9. Source of water added _____

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

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: Robert Last Name: Korth
Facility/Firm: _____
Street: 820 W Weiland Ave.
City/State/Zip: Appleton WI 54914-

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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			806 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				0-0.5 Asphalt 0.5-2.5' Tan to gray sand and gravel (FILL)	FILL									
G-1-1 (0-4 ft)	48 12		2 4	2.5-4' Tan very fine to medium sand to silty sand	SP/SM			0.3		M				No petro odor/staining
G-1-2 (4-8 ft)	48 8		6 8	4-8'Tan very fine to medium sand to silty sand with gravel	SP/SM			0.8		W				No petro odor/staining
			10 12 14 16	EOB @ 8 Feet. Groundwater sample G-1-W collected at 3-8 feet. Borehole abandoned.										

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

Signature: Nettie C Mikkelson Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No. DNR Well ID No. Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	804 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
			2	0-4' Brown to dark brown silt/clay with trace sand and gravel	ML/CL									
G-2-1 (0-4 ft)	48 12		4					14.6		M				Slight petro odor
				4-6' Brown to dark tan silt/clay	ML/CL									
G-2-2 (4-8 ft)	48 48		6					49.6		W				Slight petro odor 4-6'
			8	6-12' Dark tan sandy silt/clay	ML/CL									
G-2-3 (8-12 ft)	48 48		10					4.2		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-2-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Nettie C Nikolai Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No. DNR Well ID No. Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	803.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
G-3-1 (0-4 ft)	48 30		4	0-6.5' Brown to reddish brown silt/clay with trace sand and gravel	ML/CL			1.7		M				No petro odor/staining
G-3-2 (4-8 ft)	48 18		6	6.5-8' Black peat with wood chunks	PT			2.9		M/W				No petro odor/staining
G-3-3 (8-12 ft)	48 12		10	8-12' Brown to reddish brown silt/clay with trace sand and gravel	ML/CL			1.7		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-3-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Miller Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
G-4-1 (0-4 ft)	48 36		4	0-8.5' Brown to reddish brown silt/clay with trace sand and gravel	ML/CL			2.2		M				No petro odor/staining
G-4-2 (4-8 ft)	48 6		6					2.0		M/W				No petro odor/staining
			8	8.5-9' Black clayey peat	PT									
G-4-3 (8-12 ft)	48 30		10	9-10.5' Dark brown to gray silt/clay with trace sand	ML/CL			1.9		W				No petro odor/staining
				10.5-12' Tan sandy silt/clay	ML/CL									
			12	EOB @ 12 Feet. Groundwater sample G-4-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Nibler Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
			2	0-3' Brown to reddish brown silt/clay with trace sand	ML/CL									
				3'1" Black peat	PT									
G-5-1 (0-4 ft)	48 36		4	3'1"-4' Dark brown to brown silt/clay	ML/CL			3.7		M				No petro odor/staining
			6	4-8'Light brown to brown silt/clay with trace sand	ML/CL									
G-5-2 (4-8 ft)	48 24							2.1		M/W				No petro odor/staining
			8											
G-5-3 (8-12 ft)	48 48		10	8-12' Tan sandy silt/clay	ML/CL			20.3		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-5-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Nicholas C Miller Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			806 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
G-6-1 (0-4 ft)	48 24		2 4	0-7' Brown to reddish brown silt/clay with trace sand and gravel	ML/CL			4.1		M				No petro odor/staining
G-6-2 (4-8 ft)	48 18		6					1.6		M/W				No petro odor/staining
			8	7-8' Black peat	PT									
G-6-3 (8-12 ft)	48 48		10	8-12' Light brown to dark tan silt/clay with trace grave;	ML/CL			2.7		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-6-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Nikolai Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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 Firm: Geiss Soil and Samples, LLC	04/10/2017 MM/ DD/ YYYY	04/10/2017 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			807 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
			2	0-3' Brown sandy silt/clay(FILL)	FILL									
G-7-1 (0-4 ft)	48 24			3-3.5' Black sand and gravel (FILL)	FILL			2.7		M/W				No petro odor/staining
			4											
G-7-2 (4-8 ft)	48 4		6	3.5-8' Reddish brown silt/clay with trace sand and gravel	ML/CL			2.4		W				No petro odor/staining
			8	EOB @ 8 Feet. Groundwater sample G-7-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											

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

Signature: Matthew C Mueller Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			804 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
G-8-1 (0-4 ft)	48 40		2 4					1.9		M				Slight petro odor
G-8-2 (4-8 ft)	48 6		6 8	0-12' Brown sandy silt/clay with trace gravel	ML/CL			2.3		M/W				Slight petro odor 4-6'
G-8-3 (8-12 ft)	48 2		10 12	EOB @ 12 Feet. Groundwater sample G-8-W collected at 6-11 feet. Borehole abandoned.				2.7		W				No petro odor/staining
			14 16											

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

Signature: Matthew C Nielsen 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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			804 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 44° 15' 46.60"	N	E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample 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: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
			2	0-4' Dark brown to reddish tan sandy silt/clay with trace gravel	ML/CL									
G-9-1 (0-4 ft)	48 42		4					1.3		M				No petro odor/staining
				4-4.25' Black Peat	PT									
				4.25-6.5' Tan sandy silt/clay	ML/CL									
G-9-2 (4-8 ft)	48 36		6					1.6		M/W				No petro odor/staining
				6.5-8' Tan silt/clay with trace sand	ML/CL									
			8	8-9' Tan sandy silt/clay	ML/CL									
G-9-3 (8-12 ft)	48 48		10	9-11' Tan silt/clay	ML/CL			1.9		W				No petro odor/staining
				11-11.5' Tan sandy silt/clay	ML/CL									
				11.5-12' Tan silt/clay	ML/CL									
			12	EOB @ 12 Feet. Groundwater sample G-9-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Michels Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	04/10/2017 MM/ DD/ YYYY	04/10/2017 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No. Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	803.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass 0-2' Brown to dark brown sand and gravel (FILL)	FILL									
G-10-1 (0-4 ft)	48 34		2 4	2-4' Brown silt/clay with trace sand 4'1" Black peat	ML/CL PT			4.4		M				No petro odor/staining
G-10-2 (4-8 ft)	48 48		6 8	4'1"-6.5' Dark brown to brown silt/clay 6.5-9.5'Tan sandy silt/clay	ML/CL ML/CL			37.5		M/W				Slight petro odor @ 6.5 ft
G-10-3 (8-12 ft)	48 48		10 12 14 16	9.5-11.5' Tan silt/clay 11.5-12' Tan sandy silt/clay EOB @ 12 Feet. Groundwater sample G-10-W collected at 5-10 feet. Borehole abandoned.				2.4		W				Slight petro odor

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

Signature: Matthew C Miller Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		806 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Asphalt 0-4' Black to brown sand and gravel	SP									
G-11-1 (0-4 ft)	48 18		4					1.5		M				No petro odor/staining
G-11-2 (4-8 ft)	48 24		6	4-6' Dark brown sandy silt/clay	ML/CL			149.5		W				Petro odor
			8	6-8' Tan silt/clay	ML/CL									
			10	EOB @ 8 Feet. Groundwater sample G-11-W collected at 3-8 feet. Borehole abandoned.										
			12											
			14											
			16											

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

Signature: Matthew C Nikolai Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/10/2017	04/11/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

Wt Unique Well No. DNR Well ID No. Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 44° 15' 46.60"	N	E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Asphalt, 0-0.5' Sand and gravel (FILL)	FILL									
G-12-1 (0-4 ft)	48 48		2, 4					1.4		M				No petro odor/staining
			6	0.5-12' Brown to reddish brown silt/clay with trace sand and gravel	ML/CL									
G-12-2 (4-8 ft)	48 48		8					2.0		M/W				No petro odor/staining
G-12-3 (8-12 ft)	48 48		10					2.1		M/W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-12-W collected at 6-11 feet on 4/11/17. Borehole abandoned.										
			14, 16											

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

Signature: Matthew C. Nebble Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
			2	0-4' Dark tan to brown silt/clay with trace sand and gravel to sandy silt/clay with trace gravel	ML/CL									
G-13-1 (0-4 ft)	48 48		4					1.2		M				No petro odor/staining
				4-5' Dark tan sandy silt/clay	ML/CL									
			6	5-7' Dark tan to tan silt/clay	ML/CL									
G-13-2 (4-8 ft)	48 40							12.3		M/W				No petro odor/staining
			8											
				7-12' Tan sandy silt/clay	ML/CL									
G-13-3 (8-12 ft)	48 48		10					1.6		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-13-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Mokler Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			804 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Asphalt										
			2	0-4' Tan fine to coarse grained sand (FILL)	FILL									
G-14-1 (0-4 ft)	48 12		4					1.5		M				No petro odor/staining
				4-8' Dark tan silt/clay	ML/CL									
G-14-2 (4-8 ft)	48 48		6					38.7		M/W				Slight petro odor 6-8 ft
			8	EOB @ 8 Feet. Groundwater sample G-14-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											

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

Signature: Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/10/2017	04/10/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			806.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Asphalt										
			2	0-3.5' Tan to black sand and gravel (FILL)	FILL									
G-15-1 (0-4 ft)	48 / 24		4	3.5-4' Sandy silt/clay	ML/CL			76.6		M				Petro odor and staining @ 3-4'
G-15-2 (4-8 ft)	48 / 24		6	4-8' Black to tan sandy silt/clay	ML/CL			109.8		W				Petro odor
			8	EOB @ 8 Feet. Groundwater sample G-15-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											

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

Signature: Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/11/2017	04/11/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Asphalt										
			2	0-4' Black clayey sand and gravel (FILL)	FILL									
G-16-1 (0-4 ft)	48 12		4					38.0		M				Petro odor and staining
			6	4-8' Brown to reddish brown silt/clay with trace sand	ML/CL									
G-16-2 (4-8 ft)	48 24							85.1		M/W				Petro odor and staining
			8											
G-16-3 (8-12 ft)	48 48		10	8-12' Tan to brown to black sandy silt/clay	ML/CL			42.3		W				Petro odor and staining @ 8-10'
			12	EOB @ 12 Feet. Groundwater sample G-16-W collected at 6-11 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Nibbe Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/11/2017	04/12/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
			0	Asphalt										
			2	0-4' Brown to dark brown sand and gravel (FILL)	FILL									
G-17-1 (0-4 ft)	48 12		4					1.7		M				No petro odor/staining
			6											
G-17-2 (4-8 ft)	48 48							42.6		M				Slight petro odor
			8	4-12' Dark tan to reddish tan silt/clay with trace sand	ML/CL									
G-17-3 (8-12 ft)	48 48		10					1.3		M/W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-17-W collected at 6-11 feet on 4/12/17. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Nielsen Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/11/2017	04/11/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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-18				Grass 0-1', No recovery.										
			2	Refusal @ 1' bgs.										
			4											
			6											
			8											
			10											
			12											
			14											
			16											

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

Signature: Firm: **METCO**

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-19

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/11/2017	04/11/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
				0-2' Brown to dark brown sand and gravel (FILL)	FILL									
			2	2-3.75' Brown to dark brown silt/clay with trace sand and gravel	ML/CL									
G-19-1 (0-4 ft)	48 24		4	3.75-4.25'Dark brown to black fine to medium grained sand	SP			54.7		M				Odor 3.75-4'
			6	4.25-8' Brown to reddish brown silt/clay with trace sand	ML/CL									
G-19-2 (4-8 ft)	48 36							1159		M/W				Odor 4-6'
			8											
G-19-3 (8-12 ft)	48 48		10	8-12' Tan to brown silt/clay with trace sand and sandy silt/clay	ML/CL			20.5		W				Odor
			12	EOB @ 12 Feet. Groundwater sample G-19-W collected at 6-11 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Firm: METCO

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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	04/11/2017	04/11/2017	Geoprobe
Firm: Geiss Soil and Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			804.5 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Grass										
G-20-1 (0-4 ft)	48 42		4					1.1		M				No petro odor/staining
G-20-2 (4-8 ft)	48 48		6	0-12' Brown to reddish sandy silt/clay	ML/CL			13.9		M/W				No petro odor/staining
G-20-3 (8-12 ft)	48 48		10					3.9		W				No petro odor/staining
			12	EOB @ 12 Feet. Groundwater sample G-20-W collected at 5-10 feet. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Mitchell Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		G-21

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	04/11/2017 MM/ DD/ YYYY	04/11/2017 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			806 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27, T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Asphalt										
			2	0-4' Brown to reddish brown silt/clay with trace sand and gravel 2" of Peat @ 2.25'	ML/CL									
G-21-1 (0-4 ft)	48 / 24		4					1.7		M				No petro odor/staining
				4-5' Brown to black clayey peat	PT									
G-21-2 (4-8 ft)	48 / 18		6	5-8' Brown to dark tan sandy silt/clay	ML/CL			52.6		W				Slight petro odor @ 5-8'
			8	EOB @ 8 Feet. Groundwater sample G-21-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											

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

Signature: Matthew C Miller Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth 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 Firm: Geiss Soil and Samples, LLC	04/11/2017 MM/ DD/ YYYY	04/12/2017 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			803 ft msl	810 ft msl	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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
				Asphalt										
			2	0-4' Brown to reddish brown sandy silt/clay with trace sand and gravel	ML/CL									
G-22-1 (0-4 ft)	48 24		4					149.7		M				Petro odor
				4-5' Tan sandy silt/clay	ML/CL									
			6	5-7' Dark tan to reddish tan silt/clay	ML/CL									
G-22-2 (4-8 ft)	48 48							56.5		M/W				Slight petro odor
			8		ML/CL									
				7-8' Dark tan to brown sandy silt/clay	ML/CL									
G-22-3 (8-12 ft)	48 42		10	8-12' Dark tan to reddish tan silt/clay with trace sand 4" lense of sandy silt/clay @ 10'	ML/CL			27.8		M/W				Slight petro odor
			12	EOB @ 12 Feet. Groundwater sample G-22-W collected at 5-10 feet on 4/12/17. Borehole abandoned.										
			14											
			16											

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

Signature: Matthew C Mahler Firm: **METCO**

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	07/10/2017 MM/ DD/ YYYY	07/10/2017 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
	VR664	MW-1	~802 ft msl	~810 ft msl	8.25"

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SW ¼ of SW ¼ of Section 27 , T21N, R17E

Lat 44° 15' 46.60"
Long 88° 25' 56.91"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

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	0-2' Gray Sand, Silt, and Gravel	FILL									
MW-1-1 (3.5 feet)	60 54		4					279		M				Petro Odor
			6											
			8	2-13' Brown Sandy Silt/Clay	ML/CL									
MW-1-2 (8 feet)	48 48		10					319		M/W				Petro Odor
			12											
MW-1-3 (13 feet)	48 42		14	EOB @ 13 Feet. Installed MW-1 to 13 feet bgs.				3.9		W				Slight Petro Odor
			16											
			18											
			20											
			22											
			24											

See Well Construction Form

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

Signature: Firm: METCO

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	07/10/2017 MM/ DD/ YYYY	07/10/2017 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR665		MW-2	~806 ft msl	~810 ft msl	8.25"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: 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: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity index	P 200	RQD / Comments
MW-2-1 (3.5 feet)	48 / 24		2	0-4' Tan Very Fine to Fine Grained Sand	SP		See Well Construction Form	1.0		M				No Petro Odor
			4											
			6	4-8' Brown Sandy Silt/Clay	ML/CL									
MW-2-2 (8 feet)	48 / 48		8					2.3		M/W				Slight Petro Odor
				8-10' Brown Very Fine to Fine Grained Sand with Gravel	SP									
			10											
MW-2-3 (12 feet)	48 / 48		12	10-12' Brown Sandy Silt/Clay	ML/CL			5.1		W				Slight Petro Odor
			14	EOB @ 13 Feet. Installed MW-2 to 13 feet bgs.										
			16											
			18											
			20											
			22											
			24											

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Signature: Firm: METCO

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	07/10/2017 MM/ DD/ YYYY	07/10/2017 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR666		MW-3	~807.5 ft msl	~810 ft msl	8.25"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: U S C S	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		2	0-4' Gray Silt, Sand, and Gravel	FILL		See Well Construction Form	15.4		M				No Petro Odor
			4											
			6											
MW-3-2 (8 feet)	48 48		8	4-12' Brown Sandy Silt/Clay with Gravel	ML/CL			47		M/W				Slight Petro Odor
			10											
MW-3-3 (12 feet)	48 48		12					163		W				Slight Petro Odor
			14	EOB @ 13 Feet. Installed MW-3 to 13 feet bgs.										
			16											
			18											
			20											
			22											
			24											

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

Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	07/10/2017 MM/ DD/ YYYY	07/10/2017 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR667		MW-4	~803.5 ft msl	~810 ft msl	8.25"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27, T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample 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: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity index	P 200	RQD / Comments
MW-4-1 (3.5 feet)	48 30		2	0-4' Brown Sandy Silt/Clay	ML/CL		See Well Construction Form	9.2		M				No Petro Odor
			4											
			6											
MW-4-2 (8 feet)	48 42		8	4-12' Brown Sandy Silt/Clay with Gravel	ML/CL			61		M/W				Petro Odor 5-8 Feet
			10											
MW-4-3 (12 feet)	48 48		12					9.9		W				Slight Petro Odor
			14	EOB @ 13 Feet. Installed MW-4 to 13 feet bgs.										
			16											
			18											
			20											
			22											
			24											

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Signature: Firm: **METCO**

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Korth Property		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil and Samples, LLC	07/10/2017 MM/ DD/ YYYY	07/10/2017 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR668		MW-5	~806.25 ft msl	~810 ft msl	8.25"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 44° 15' 46.60"	N E
SW ¼ of SW ¼ of Section 27 , T21N, R17E	Long 88° 25' 56.91"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
NONE	Outagamie	45	City of Appleton

Sample: 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: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-5-1 (3.5 feet)	48 / 36		2	0-4' Brown Sandy Silt/Clay	ML/CL		See Well Construction Form	1.4		M				No Petro Odor
			4											
			6	4-8' Brown to Gray Sandy Silt/Clay	ML/CL									
MW-5-2 (8 feet)	48 / 48		8					87		M/W				Petro Odor
				8-10' Gray Silty Sand with Gravel	SM									
			10	10-12' Red Silt/Clay with Gravel	ML/CL									
MW-5-3 (12 feet)	48 / 36		12					7.3		W				Petro Odor 8-11 Feet
				EOB @ 13 Feet. Installed MW-5 to 13 feet bgs.										
			14											
			16											
			18											
			20											
			22											
			24											

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

Signature: Firm: **METCO**

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes): 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #:

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

Reason For Removal From Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	4

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

Geoprobe Boring G-1
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
44 ° 15.46 ' N	
88 ° 25.58 ' W	

¼ / ¼	¼	Section	Township	Range
SW	SW	27	21 N	17 [X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-2
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)
44 ° 15.46 ' N
88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property
Facility ID (FID or PWS): None
License/Permit/Monitoring #:
Original Well Owner: Robert Korth
Present Well Owner: Robert Korth
Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6.5

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-3
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
44 ° 15.46 ' N	
88 ° 25.58 ' W	

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6.5

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-4
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N
88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-5
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes): 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner: Appleton — State: WI — ZIP Code: 54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-6
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route: 709 Gillette Street, Suite 3 — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work: Matthew C Michalski — Date Signed: 5-2-17

DNR Use Only

Date Received — Noted By — Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes) 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #:

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name: — Lot #:

Reason For Removal From Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	3

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

Geoprobe Boring G-7
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route: 709 Gillette Street, Suite 3 — Telephone Number: (608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5-2-17

DNR Use Only

Date Received	Noted By
Comments	

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-8
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matt C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-9
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route: 709 Gillette Street, Suite 3

Telephone Number: (608) 781-8879

City	State	ZIP Code
La Crosse	WI	54603-

Signature of Person Doing Work: Matthew C Michalski

Date Signed: 5/2/17

DNR Use Only

Date Received | Noted By

Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6.5

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-10
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		5/3/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range
SW	SW	27	21 N	17 [X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	4

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

Geoprobe Boring G-11
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route: 709 Gillette Street, Suite 3

Telephone Number: (608) 781-8879

City	State	ZIP Code
La Crosse	WI	54603-

Signature of Person Doing Work: Matthew Michalski

Date Signed: 5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes) 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #:

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name: — Lot #:

Reason For Removal From Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner: Appleton — State: WI — ZIP Code: 54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-12
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/11/2017

Street or Route: 709 Gillette Street, Suite 3 — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work: Matthew C Michalski — Date Signed: 5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-13
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	6

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	pounds
Medium Bentonite Chips	Surface	8	12

6. Comments

Geoprobe Boring G-14
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/10/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	3.5

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

Geoprobe Boring G-15
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/10/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds
Medium Bentonite Chips	Surface	12	18

6. Comments

Geoprobe Boring G-16
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/11/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/3/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes): 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name: — Lot #:

Reason For Removal From Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-17
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/12/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matthew C Michalski	5/2/17

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

Latitude / Longitude (Degrees and Minutes): 44 ° 15.46 ' N; 88 ° 25.58 ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #:

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name: — Lot #:

Reason For Removal From Service: — WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner: Appleton — State: WI — ZIP Code: 54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?

Depth to Water (feet): 6.5

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-19
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/11/2017

Street or Route: 709 Gillette Street, Suite 3 — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work: Matthew C Michalski — Date Signed: 5/2/17

DNR Use Only

Date Received: — Noted By: — Comments:

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	5.5

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-20
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/11/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-	Matt Michalski	5/9/17

DNR Use Only

Date Received	Noted By

Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range
SW	SW	27	21 N	17 [X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town: Appleton — Well ZIP Code: 54914-

Subdivision Name — Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner: Appleton — State: WI — ZIP Code: 54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type:

[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
8	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

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

If yes, to what depth (feet)?	Depth to Water (feet)
	4

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

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

Required Method of Placing Sealing Material

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

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	pounds
Medium Bentonite Chips	Surface	8	12

6. Comments

Geoprobe Boring G-21
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/11/2017

Street or Route: 709 Gillette Street, Suite 3 — Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work: Matthew C. Michalski — Date Signed: 5/2/17

DNR Use Only

Date Received — Noted By — Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
OUTAGAMIE		

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

44 ° 15.46 ' N

88 ° 25.58 ' W

¼ / ¼	¼	Section	Township	Range	
SW	SW	27	21 N	17	[X] E ☐ W

or Gov't Lot #

Well Street Address: 1629 W. Washington Street

Well City, Village or Town	Well ZIP Code
Appleton	54914-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Korth Property

Facility ID (FID or PWS): None

License/Permit/Monitoring #:

Original Well Owner: Robert Korth

Present Well Owner: Robert Korth

Mailing Address of Present Owner: 820 W. Weiland Avenue

City of Present Owner	State	ZIP Code
Appleton	WI	54914-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/11/2017

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug [X] Other (specify): Geoprobe

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

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

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

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

If yes, to what depth (feet)?	Depth to Water (feet)
	7

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

Geoprobe Boring G-22
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Matt Michalski/METCO		4/12/2017

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		5/2/17

DNR Use Only

Date Received: | Noted By:

Comments:

APPENDIX D/ WASTE DISPOSAL DOCUMENTATION

DKS Transport Services, LLC
N7349 548th Street
Menomonie, WI 54751
715-556-2604

INVOICE

12-12 20 17

CUSTOMER
Metco % Robert Korth
709 Gillette St
La Crosse WI 54603

JOB NAME
Korth Property
Appleton WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE		AMOUNT	
	1	Mobilization	1	287	20	287	20
	4	haul soil drums to Advanced Disposal Green Valley WI	4	108	15	432	60
	1	haul water drum to Advanced Disposal Green Valley WI	1	42	11	42	11
		Mark You					
					TOTAL	762	41

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE _____

206

APPENDIX E/ OTHER DOCUMENTATION

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be landfilled[5]	Site Investigation, Pretreatment and Posttreatment Sample Analysis[11]
Regular Gasoline	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO VOC/PVOC[15] Pb[12]
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO[3]	Free Liquids[6] DRO Benzene[7] Haz. Waste Deter.[8]	DRO[3] PVOC PAH[13 14]
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO[3]	Free Liquids[6] DRO Haz. Waste Deter.[8]	DRO[3] PAH[13 14]
Unknown Petroleum	GRO[7] and DRO[3 4]	Free Liquids[6] GRO and DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	GRO and DRO[3 4] VOC/PVOC[15] PAH[13 14] Pb, Cd[12]
Waste Oil	DRO[3]	Free Liquids[6] DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	DRO[3] VOC/PVOC[15] PAH[13 14] PCBs[16] Pb, Cd[12]

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
WET CHEMISTRY			
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_2SO_4	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_2SO_4	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_3	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H_2SO_4	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_2SO_4	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_2SO_4	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H_2SO_4 or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H_2SO_4	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
METALS			
Metals	250 mL HDPE	4°C, pH<2 with HNO_3	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO_3	28 days
ORGANICS			
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/EPA524.2	(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
METALS						
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
ORGANICS						
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.ornl.gov/cgi-bin/chemicals/csl_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/sir/2011/5202*.

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:

Contaminant	CAS Number	Not-To-Exceed D-C RCL (mg/kg)	C-Sat (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06. 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	,818.000	-	,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					
Dibromoethane, 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	11,500.000	-	,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					
Benz[a]anthracene	56-55-3	-	,1.140	,1.140	ca					
Benzo[j]fluoranthene	205-82-3	-	,.424	,.424	ca					
Benzo[b]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					
Dibenzo(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		52				
Bromobenzene	108-86-1	,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					
Chlorotoluene, o-	95-49-8	1,560.000	-	,907.000	Csat					
Chlorotoluene, 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	75-71-8	,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!

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *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		Re-assess if Cr-VI present
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-Dichloropropene (cis/trans) (Telone)	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 groundwate levels separately.

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defi

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *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!	*Type BRRTS No Here (If Known). Assess groundwa levels separately*
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			
Metolachlor/s-Metolachlor	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			
1,1,2,2-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			
[illegible]	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			
[illegible]	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			

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after singly-deficient [illegible]

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_{res} (exposure time) hour	24
ET_{res-c} (child exposure time) hour	24
ET_{res-a} (adult exposure time) hour	24
ET_{0-2} (mutagenic exposure time) hour	24
ET_{2-6} (mutagenic exposure time) hour	24
ET_{6-16} (mutagenic exposure time) hour	24
ET_{16-26} (mutagenic exposure time) hour	24
ED_{res} (exposure duration) year	26
ED_{res-c} (exposure duration - child) year	6
ED_{res-a} (exposure duration - adult) year	20
ED_{0-2} (mutagenic exposure duration) year	2
ED_{2-6} (mutagenic exposure duration) year	4
ED_{6-16} (mutagenic exposure duration) year	10
ED_{16-26} (mutagenic exposure duration) year	10
BW_{res-c} (body weight - child) kg	15
BW_{res-a} (body weight - adult) kg	80
BW_{0-2} (mutagenic body weight) kg	15
BW_{2-6} (mutagenic body weight) kg	15
BW_{6-16} (mutagenic body weight) kg	80
BW_{16-26} (mutagenic body weight) kg	80
SA_{res-c} (skin surface area - child) cm^2/day	2373
SA_{res-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (mutagenic skin surface area) cm^2/day	2373
SA_{2-6} (mutagenic skin surface area) cm^2/day	2373
SA_{6-16} (mutagenic skin surface area) cm^2/day	6032
SA_{16-26} (mutagenic skin surface area) cm^2/day	6032
EF_{res} (exposure frequency) day/year	350
EF_{res-c} (exposure frequency - child) day/year	350
EF_{res-a} (exposure frequency - adult) day/year	350
EF_{0-2} (mutagenic exposure frequency) day/year	350

Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{2-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{res-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{res-c} (soil intake rate - child) mg/day	200
IRS_{res-a} (soil intake rate - adult) mg/day	100
IRS_{0-2} (mutagenic soil intake rate) mg/day	200
IRS_{2-6} (mutagenic soil intake rate) mg/day	200
IRS_{6-16} (mutagenic soil intake rate) mg/day	100
IRS_{16-26} (mutagenic soil intake rate) mg/day	100
AF_{res-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{res-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{0-2} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
AF_{16-26} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
$DFS_{res-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-adj}$ (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^2-s per kg/m^3)	98.430714368855
PEF (particulate emission factor) m ^{3}/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^2-s per kg/m^3)	98.430714368855

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Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_a/L_{soil}	0.28396
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	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 $_{sw}$ Selection	Chicago, IL (7)
VF_s (volitization factor) m ^{3}/kg	
Q/C_{vol} (g/m^2-s per kg/m^3)	98.430714368855
A_s (acres)	.5
T (exposure interval) yr	26
d_s (depth of source) m	
ρ$_b$ (dry soil bulk density) g/cm ^{3}	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 SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC 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

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	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic 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	-	-	-	-

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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	Ingestion SL Child THQ=1 (mg/kg)	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
Benzene	3.13E+02	-	1.60E+02	1.06E+02	3.34E+03	-	1.60E+02	1.52E+02	1.60E+00 ca
Dibromoethane, 1,2-	7.04E+02	-	1.17E+02	1.00E+02	7.51E+03	-	1.17E+02	1.15E+02	5.00E-02 ca
Dichloroethane, 1,2-	4.69E+02	-	4.82E+01	4.37E+01	5.01E+03	-	4.82E+01	4.77E+01	6.62E-01 ca
Ethylbenzene	7.82E+03	-	8.53E+03	4.08E+03	8.34E+04	-	8.53E+03	7.74E+03	8.02E+00 ca
Lead and Compounds	-	-	-	-	-	-	-	-	1.00E+02 nc
Methyl tert-Butyl Ether (MTBE)	-	-	2.21E+04	2.21E+04	-	-	2.21E+04	2.21E+04	6.38E+01 ca
Acenaphthene	4.69E+03	1.52E+04	-	3.59E+03	5.01E+04	9.12E+04	-	3.23E+04	4.59E+03 nc
Anthracene	2.35E+04	7.61E+04	-	1.79E+04	2.50E+05	4.56E+05	-	1.62E+05	1.79E+04 nc
Benz[a]anthracene	-	-	-	-	-	-	-	-	1.57E+00 ca
Benzo(j)fluoranthene	-	-	-	-	-	-	-	-	1.24E+01 ca
Benzo[a]pyrene	-	-	-	-	-	-	-	-	1.57E-02 ca
Benzo[b]fluoranthene	-	-	-	-	-	-	-	-	1.57E+01 ca
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	1.57E+00 ca
Chrysene	-	-	-	-	-	-	-	-	1.57E+01 ca
Dibenz[a,h]anthracene	-	-	-	-	-	-	-	-	1.57E-02 ca
Dibenzo(a,e)pyrene	-	-	-	-	-	-	-	-	1.24E-02 ca
Dimethylbenz(a)anthracene, 7,12-	-	-	-	-	-	-	-	-	4.59E-04 ca
Fluoranthene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	2.39E+03 nc
Fluorene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	2.39E+03 nc
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	-	-	-	1.57E-01 ca
Methylnaphthalene, 1-	5.48E+03	1.77E+04	-	4.18E+03	5.84E+04	1.06E+05	-	3.77E+04	1.76E-01 ca
Methylnaphthalene, 2-	3.13E+02	1.01E+03	-	2.39E+02	3.34E+03	6.08E+03	-	2.15E+03	2.39E+02 nc
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	5.52E-01 ca*
Nitropyrene, 4-	-	-	-	-	-	-	-	-	4.24E-01 ca
Pyrene	2.35E+03	7.61E+03	-	1.79E+03	2.50E+04	4.56E+04	-	1.62E+04	1.79E+03 nc
Toluene	6.26E+03	-	3.23E+04	5.24E+03	6.67E+04	-	3.23E+04	2.18E+04	5.24E+03 sat
Trimethylbenzene, 1,2,4-	-	-	8.34E+01	8.34E+01	-	-	8.34E+01	8.34E+01	8.34E+01 nc
Trimethylbenzene, 1,3,5-	7.82E+02	-	-	7.82E+02	8.34E+03	-	-	8.34E+03	7.82E+02 sat
Xylenes	1.56E+04	-	8.64E+02	8.18E+02	1.67E+05	-	8.64E+02	8.59E+02	8.18E+02 sat

(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. 357, 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), (15), 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, 2004, No. 544; CR 02−154; 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[1]	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[2]	0.3[2]
Bacteria, Total Coliform	0[3]	0[3]
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[1]	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[4]	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[3]	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[1]	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[1]	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Vinyl chloride	0.2	0.02
Xylene[6]	2 mg/l	0.4 mg/l

[1] Appendix I contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

[2] Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2–chloro–4–amino–6–isopropylamino–s–triazine (formerly deethylatrazine), 2–chloro–4–amino–6–ethylamino–s–triazine (formerly deisopropylatrazine) and 2–chloro–4,6–diamino–s–triazine (formerly diaminoatrazine).

[3] 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.

[4] "Cyanide, free" refers to the simple cyanides (HCN, CN^-) and /or readily dissociable metal–cyanide complexes. Free cyanide is regulatorily equivalent to cyanide quantified by approved analytical methods for "amenable cyanide" or "available cyanide".

[5] 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.

[6] 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, boron, Register, December, 1998, No. 516, eff. 12–31–99; am. Table 1, Register, March, 2000, No. 531, eff. 4–1–00; CR 03–065; am Table 1, Register February 2004 No. 578, eff. 3–1–04; CR 02–095; 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:

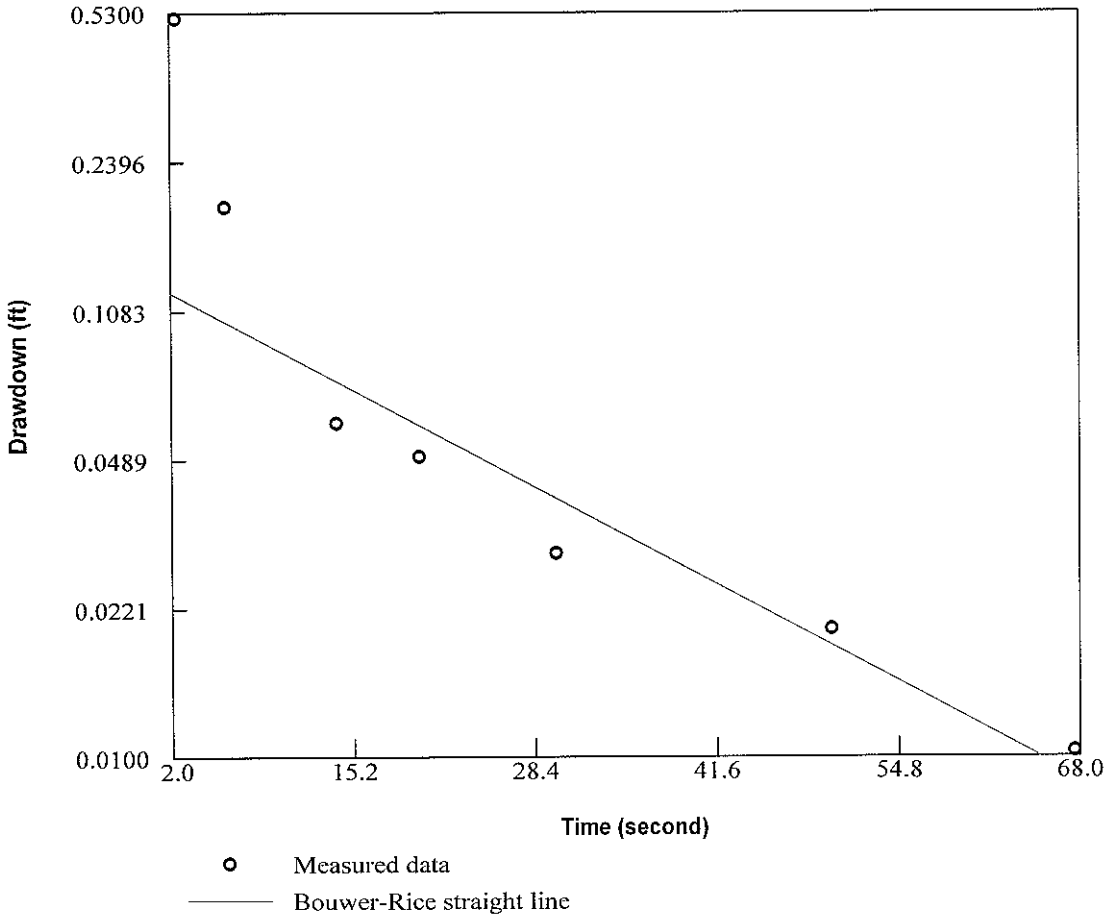
(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(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



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	3.63e-005
Transmissivity (sq ft/s):	3.39e-004

Korth Property MW-1 Slug Out

Korth Property
Monitoring Well MW-1 (Slug Out)

Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
9/20/2017 12:36	41.86324	61.142	0	0.29324
9/20/2017 12:36	41.03647	61.142	2	0.53353
9/20/2017 12:36	41.18192	61.142	4	0.38808
9/20/2017 12:36	41.38479	61.142	6	0.18521
9/20/2017 12:36	41.45751	61.142	8	0.11249
9/20/2017 12:36	41.47857	61.142	10	0.09143
9/20/2017 12:36	41.49962	61.142	12	0.07038
9/20/2017 12:36	41.50727	61.13	14	0.06273
9/20/2017 12:36	41.51493	61.13	16	0.05507
9/20/2017 12:36	41.52258	61.142	18	0.04742
9/20/2017 12:36	41.52258	61.13	20	0.04742
9/20/2017 12:36	41.53598	61.13	22	0.03402
9/20/2017 12:36	41.53598	61.13	24	0.03402
9/20/2017 12:36	41.54364	61.13	26	0.02636
9/20/2017 12:36	41.53598	61.13	28	0.03402
9/20/2017 12:36	41.54364	61.13	30	0.02636
9/20/2017 12:36	41.54364	61.13	32	0.02636
9/20/2017 12:36	41.54364	61.13	34	0.02636
9/20/2017 12:36	41.54364	61.13	36	0.02636
9/20/2017 12:36	41.54364	61.13	38	0.02636
9/20/2017 12:37	41.55129	61.13	40	0.01871
9/20/2017 12:37	41.54364	61.13	42	0.02636
9/20/2017 12:37	41.55129	61.118	44	0.01871
9/20/2017 12:37	41.55129	61.118	46	0.01871
9/20/2017 12:37	41.55129	61.118	48	0.01871
9/20/2017 12:37	41.55129	61.118	50	0.01871
9/20/2017 12:37	41.55129	61.118	52	0.01871
9/20/2017 12:37	41.55895	61.118	54	0.01105
9/20/2017 12:37	41.55129	61.118	56	0.01871
9/20/2017 12:37	41.55129	61.118	58	0.01871
9/20/2017 12:37	41.55895	61.118	60	0.01105
9/20/2017 12:37	41.55895	61.118	62	0.01105
9/20/2017 12:37	41.55895	61.118	64	0.01105
9/20/2017 12:37	41.55895	61.118	66	0.01105
9/20/2017 12:37	41.55895	61.118	68	0.01105
9/20/2017 12:37	41.5666	61.118	70	0.0034
9/20/2017 12:37	41.55895	61.118	72	0.01105
9/20/2017 12:37	41.55895	61.118	74	0.01105
9/20/2017 12:37	41.55895	61.118	76	0.01105
9/20/2017 12:37	41.5666	61.118	78	0.0034
9/20/2017 12:37	41.55895	61.106	80	0.01105
9/20/2017 12:37	41.5666	61.118	82	0.0034
9/20/2017 12:37	41.5666	61.118	84	0.0034
9/20/2017 12:37	41.5666	61.118	86	0.0034
9/20/2017 12:37	41.56469	61.106	88	0.00531
9/20/2017 12:37	41.56469	61.106	90	0.00531

Korth Property
Monitoring Well MW-1 (Slug Out)

9/20/2017 12:37	41.56469	61.106	92	0.00531
9/20/2017 12:37	41.56469	61.106	94	0.00531
9/20/2017 12:37	41.55895	61.106	96	0.01105
9/20/2017 12:37	41.56469	61.106	98	0.00531
9/20/2017 12:38	41.56469	61.106	100	0.00531
9/20/2017 12:38	41.56469	61.106	102	0.00531
9/20/2017 12:38	41.56469	61.106	104	0.00531
9/20/2017 12:38	41.56469	61.106	106	0.00531
9/20/2017 12:38	41.56469	61.106	108	0.00531
9/20/2017 12:38	41.56469	61.106	110	0.00531
9/20/2017 12:38	41.57234	61.106	112	0.00234
9/20/2017 12:38	41.56469	61.106	114	0.00531
9/20/2017 12:38	41.56469	61.106	116	0.00531
9/20/2017 12:38	41.56469	61.106	118	0.00531
9/20/2017 12:38	41.56469	61.106	120	0.00531
9/20/2017 12:38	41.56469	61.106	122	0.00531
9/20/2017 12:38	41.56469	61.106	124	0.00531
9/20/2017 12:38	41.56469	61.106	126	0.00531
9/20/2017 12:38	41.57234	61.106	128	0.00234
9/20/2017 12:38	41.56469	61.094	130	0.00531
9/20/2017 12:38	41.57234	61.106	132	0.00234
9/20/2017 12:38	41.57234	61.106	134	0.00234
9/20/2017 12:38	41.57234	61.106	136	0.00234
9/20/2017 12:38	41.57234	61.094	138	0.00234
9/20/2017 12:38	41.56469	61.094	140	0.00531
9/20/2017 12:38	41.57234	61.094	142	0.00234
9/20/2017 12:38	41.56469	61.106	144	0.00531
9/20/2017 12:38	41.57234	61.094	146	0.00234
9/20/2017 12:38	41.56469	61.094	148	0.00531
9/20/2017 12:38	41.56469	61.094	150	0.00531
9/20/2017 12:38	41.56469	61.094	152	0.00531
9/20/2017 12:38	41.57234	61.094	154	0.00234
9/20/2017 12:38	41.56469	61.094	156	0.00531
9/20/2017 12:38	41.57234	61.094	158	0.00234
9/20/2017 12:39	41.56469	61.094	160	0.00531
9/20/2017 12:39	41.56469	61.094	162	0.00531
9/20/2017 12:39	41.57234	61.094	164	0.00234
9/20/2017 12:39	41.57234	61.094	166	0.00234
9/20/2017 12:39	41.57234	61.094	168	0.00234
9/20/2017 12:39	41.57234	61.094	170	0.00234
9/20/2017 12:39	41.57234	61.094	172	0.00234
9/20/2017 12:39	41.57234	61.094	174	0.00234
9/20/2017 12:39	41.56469	61.094	176	0.00531
9/20/2017 12:39	41.57234	61.094	178	0.00234
9/20/2017 12:39	41.57234	61.094	180	0.00234
9/20/2017 12:39	41.57234	61.094	182	0.00234
9/20/2017 12:39	41.57234	61.094	184	0.00234

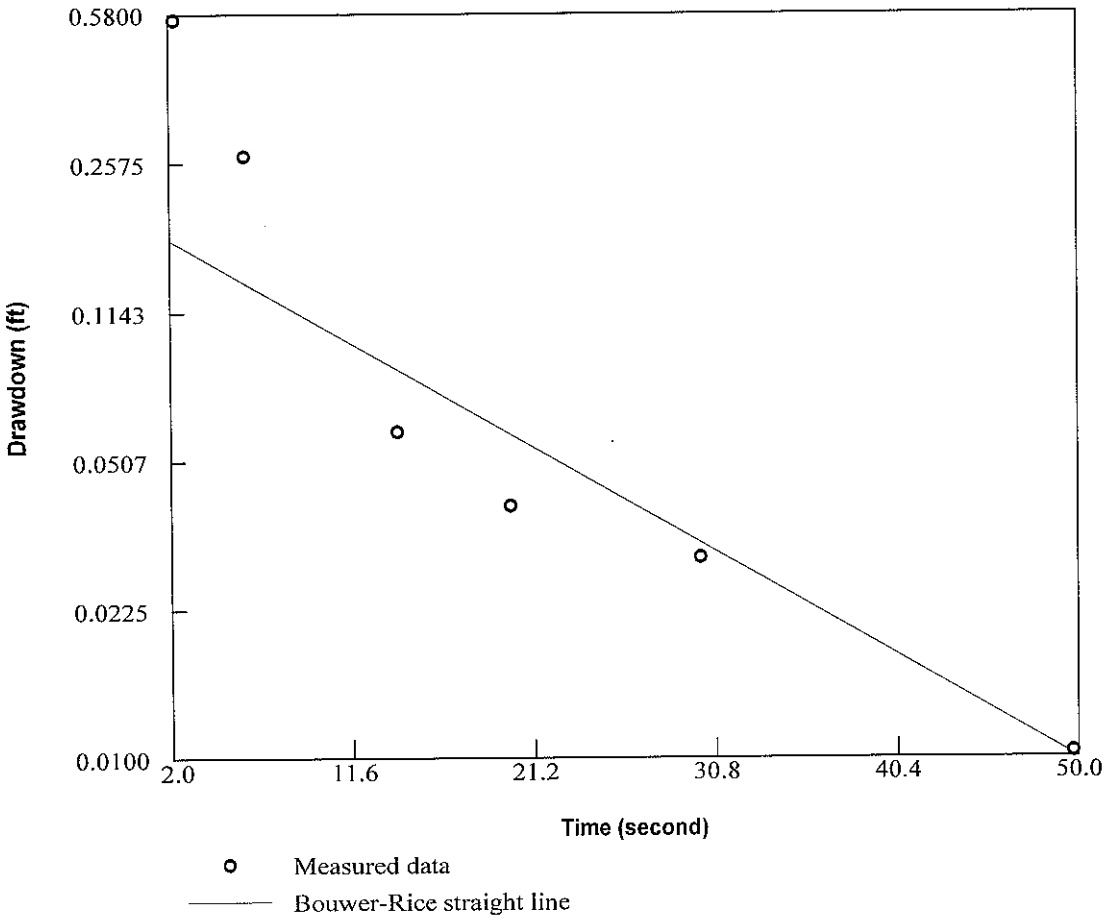
Korth Property
Monitoring Well MW-1 (Slug Out)

9/20/2017 12:39	41.57234	61.094	186	0.00234
9/20/2017 12:39	41.57234	61.094	188	0.00234
9/20/2017 12:39	41.57234	61.094	190	0.00234
9/20/2017 12:39	41.57234	61.094	192	0.00234
9/20/2017 12:39	41.57234	61.094	194	0.00234
9/20/2017 12:39	41.57234	61.094	196	0.00234
9/20/2017 12:39	41.57234	61.094	198	0.00234
9/20/2017 12:39	41.57234	61.094	200	0.00234
9/20/2017 12:39	41.57234	61.094	202	0.00234
9/20/2017 12:39	41.57234	61.094	204	0.00234
9/20/2017 12:39	41.57234	61.094	206	0.00234
9/20/2017 12:39	41.57234	61.094	208	0.00234
9/20/2017 12:39	41.57234	61.094	210	0.00234
9/20/2017 12:39	41.57234	61.094	212	0.00234
9/20/2017 12:39	41.57234	61.094	214	0.00234
9/20/2017 12:39	41.57234	61.094	216	0.00234
9/20/2017 12:39	41.57234	61.094	218	0.00234
9/20/2017 12:40	41.56851	61.082	220	0.00149
9/20/2017 12:40	41.56851	61.082	222	0.00149
9/20/2017 12:40	41.56851	61.082	224	0.00149
9/20/2017 12:40	41.56851	61.082	226	0.00149
9/20/2017 12:40	41.57234	61.094	228	0.00234
9/20/2017 12:40	41.56851	61.082	230	0.00149
9/20/2017 12:40	41.56851	61.082	232	0.00149
9/20/2017 12:40	41.56851	61.082	234	0.00149
9/20/2017 12:40	41.56851	61.082	236	0.00149
9/20/2017 12:40	41.56851	61.082	238	0.00149
9/20/2017 12:40	41.56851	61.082	240	0.00149
9/20/2017 12:40	41.56851	61.082	242	0.00149
9/20/2017 12:40	41.56851	61.082	244	0.00149
9/20/2017 12:40	41.56277	61.082	246	0.00723
9/20/2017 12:40	41.56851	61.082	248	0.00149
9/20/2017 12:40	41.56851	61.082	250	0.00149
9/20/2017 12:40	41.56851	61.082	252	0.00149
9/20/2017 12:40	41.56851	61.082	254	0.00149
9/20/2017 12:40	41.56851	61.082	256	0.00149
9/20/2017 12:40	41.56851	61.082	258	0.00149
9/20/2017 12:40	41.56851	61.082	260	0.00149
9/20/2017 12:40	41.56851	61.082	262	0.00149
9/20/2017 12:40	41.56851	61.082	264	0.00149
9/20/2017 12:40	41.56851	61.082	266	0.00149
9/20/2017 12:40	41.56851	61.082	268	0.00149
9/20/2017 12:40	41.56277	61.082	270	0.00723
9/20/2017 12:40	41.56851	61.082	272	0.00149
9/20/2017 12:40	41.56851	61.082	274	0.00149
9/20/2017 12:40	41.56851	61.082	276	0.00149
9/20/2017 12:40	41.56851	61.082	278	0.00149

Korth Property
Monitoring Well MW-1 (Slug Out)

9/20/2017 12:41	41.56851	61.082	280	0.00149
9/20/2017 12:41	41.56851	61.082	282	0.00149
9/20/2017 12:41	41.56851	61.082	284	0.00149
9/20/2017 12:41	41.56851	61.082	286	0.00149
9/20/2017 12:41	41.57234	61.07	288	0.00234

END OF DATA FILE OF DATALOGGER FOR WINDOWS



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	5.99e-005
Transmissivity (sq ft/s):	4.87e-004

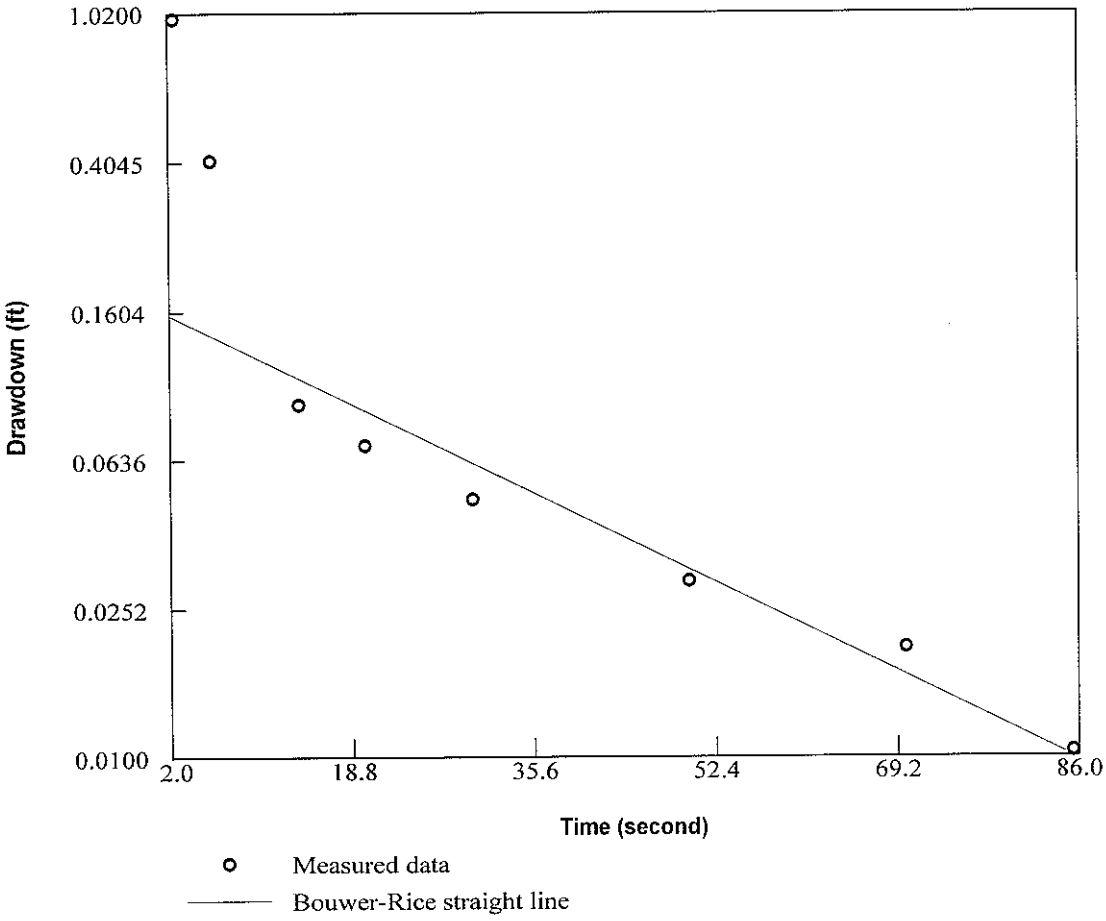
Korth Property MW-4 Slug Out

Korth Property

Monitoring Well MW-4 (Slug Out)

Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
9/20/2017 11:25	40.67859	59.186	0	0.26859
9/20/2017 11:25	39.83076	59.186	2	0.57924
9/20/2017 11:25	39.9322	59.186	4	0.4778
9/20/2017 11:25	40.14272	59.186	6	0.26728
9/20/2017 11:25	40.27286	59.186	8	0.13714
9/20/2017 11:25	40.30156	59.186	10	0.10844
9/20/2017 11:25	40.33027	59.186	12	0.07973
9/20/2017 11:25	40.34558	59.186	14	0.06442
9/20/2017 11:25	40.35324	59.186	16	0.05676
9/20/2017 11:25	40.36089	59.186	18	0.04911
9/20/2017 11:25	40.36663	59.186	20	0.04337
9/20/2017 11:26	40.36663	59.186	22	0.04337
9/20/2017 11:26	40.37429	59.186	24	0.03571
9/20/2017 11:26	40.37429	59.186	26	0.03571
9/20/2017 11:26	40.3896	59.186	28	0.0204
9/20/2017 11:26	40.38194	59.186	30	0.02806
9/20/2017 11:26	40.3896	59.186	32	0.0204
9/20/2017 11:26	40.3896	59.186	34	0.0204
9/20/2017 11:26	40.3896	59.186	36	0.0204
9/20/2017 11:26	40.38194	59.186	38	0.02806
9/20/2017 11:26	40.3896	59.186	40	0.0204
9/20/2017 11:26	40.3896	59.186	42	0.0204
9/20/2017 11:26	40.3896	59.186	44	0.0204
9/20/2017 11:26	40.39534	59.186	46	0.01466
9/20/2017 11:26	40.403	59.186	48	0.007
9/20/2017 11:26	40.39534	59.186	50	0.01466
9/20/2017 11:26	40.39917	59.174	52	0.01083
9/20/2017 11:26	40.39534	59.186	54	0.01466
9/20/2017 11:26	40.39917	59.174	56	0.01083
9/20/2017 11:26	40.39917	59.174	58	0.01083
9/20/2017 11:26	40.40682	59.174	60	0.00318
9/20/2017 11:26	40.39917	59.174	62	0.01083
9/20/2017 11:26	40.40682	59.174	64	0.00318
9/20/2017 11:26	40.40682	59.174	66	0.00318
9/20/2017 11:26	40.40682	59.174	68	0.00318
9/20/2017 11:26	40.40682	59.174	70	0.00318
9/20/2017 11:26	40.40682	59.174	72	0.00318
9/20/2017 11:26	40.40682	59.174	74	0.00318
9/20/2017 11:26	40.40682	59.174	76	0.00318
9/20/2017 11:26	40.40682	59.174	78	0.00318
9/20/2017 11:26	40.41257	59.174	80	0.00257

END OF DATA FILE OF DATALOGGER FOR WINDOWS



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	3.25e-005
Transmissivity (sq ft/s):	2.77e-004

Korth Property MW-5 Slug Out

Korth Property
Monitoring Well MW-5

Date/time	Pressure[ft	Temperature[°F]	Time (seconds)	Drawdown
9/20/2017 12:06	40.84509	57.008	0	0.23509
9/20/2017 12:06	39.58579	57.008	2	1.02421
9/20/2017 12:07	40.0853	57.008	4	0.5247
9/20/2017 12:07	40.20013	57.008	6	0.40987
9/20/2017 12:07	40.3896	57.008	8	0.2204
9/20/2017 12:07	40.46041	57.008	10	0.14959
9/20/2017 12:07	40.49486	56.996	12	0.11514
9/20/2017 12:07	40.51591	56.996	14	0.09409
9/20/2017 12:07	40.52357	56.996	16	0.08643
9/20/2017 12:07	40.53888	56.996	18	0.07112
9/20/2017 12:07	40.54079	56.984	20	0.06921
9/20/2017 12:07	40.54845	56.984	22	0.06155
9/20/2017 12:07	40.5561	56.984	24	0.0539
9/20/2017 12:07	40.5561	56.984	26	0.0539
9/20/2017 12:07	40.56184	56.984	28	0.04816
9/20/2017 12:07	40.56184	56.984	30	0.04816
9/20/2017 12:07	40.55993	56.972	32	0.05007
9/20/2017 12:07	40.56759	56.972	34	0.04241
9/20/2017 12:07	40.56759	56.972	36	0.04241
9/20/2017 12:07	40.56759	56.972	38	0.04241
9/20/2017 12:07	40.57524	56.972	40	0.03476
9/20/2017 12:07	40.57524	56.972	42	0.03476
9/20/2017 12:07	40.58098	56.96	44	0.02902
9/20/2017 12:07	40.57524	56.96	46	0.03476
9/20/2017 12:07	40.58098	56.96	48	0.02902
9/20/2017 12:07	40.58098	56.96	50	0.02902
9/20/2017 12:07	40.57524	56.96	52	0.03476
9/20/2017 12:07	40.58098	56.96	54	0.02902
9/20/2017 12:07	40.58098	56.96	56	0.02902
9/20/2017 12:07	40.58481	56.948	58	0.02519
9/20/2017 12:07	40.58098	56.96	60	0.02902
9/20/2017 12:07	40.58481	56.948	62	0.02519
9/20/2017 12:08	40.58481	56.948	64	0.02519
9/20/2017 12:08	40.58481	56.948	66	0.02519
9/20/2017 12:08	40.58481	56.948	68	0.02519
9/20/2017 12:08	40.59247	56.948	70	0.01753
9/20/2017 12:08	40.59247	56.948	72	0.01753
9/20/2017 12:08	40.59247	56.948	74	0.01753
9/20/2017 12:08	40.59247	56.948	76	0.01753
9/20/2017 12:08	40.59247	56.948	78	0.01753
9/20/2017 12:08	40.58864	56.936	80	0.02136
9/20/2017 12:08	40.58864	56.936	82	0.02136
9/20/2017 12:08	40.58864	56.936	84	0.02136
9/20/2017 12:08	40.59629	56.936	86	0.01371
9/20/2017 12:08	40.59629	56.936	88	0.01371
9/20/2017 12:08	40.58864	56.936	90	0.02136

Korth Property
Monitoring Well MW-5

9/20/2017 12:08	40.59629	56.936	92	0.01371
9/20/2017 12:08	40.58864	56.936	94	0.02136
9/20/2017 12:08	40.58864	56.936	96	0.02136
9/20/2017 12:08	40.58864	56.936	98	0.02136
9/20/2017 12:08	40.59629	56.936	100	0.01371
9/20/2017 12:08	40.58864	56.924	102	0.02136
9/20/2017 12:08	40.58864	56.936	104	0.02136
9/20/2017 12:08	40.59629	56.936	106	0.01371
9/20/2017 12:08	40.59629	56.924	108	0.01371
9/20/2017 12:08	40.59629	56.924	110	0.01371
9/20/2017 12:08	40.59629	56.924	112	0.01371
9/20/2017 12:08	40.59629	56.924	114	0.01371
9/20/2017 12:08	40.59629	56.924	116	0.01371
9/20/2017 12:08	40.59629	56.924	118	0.01371
9/20/2017 12:08	40.59629	56.924	120	0.01371
9/20/2017 12:08	40.58864	56.924	122	0.02136
9/20/2017 12:09	40.59629	56.924	124	0.01371
9/20/2017 12:09	40.59629	56.924	126	0.01371
9/20/2017 12:09	40.59629	56.924	128	0.01371
9/20/2017 12:09	40.59629	56.924	130	0.01371
9/20/2017 12:09	40.59821	56.912	132	0.01179
9/20/2017 12:09	40.58864	56.924	134	0.02136
9/20/2017 12:09	40.58864	56.924	136	0.02136
9/20/2017 12:09	40.59629	56.924	138	0.01371
9/20/2017 12:09	40.59821	56.912	140	0.01179
9/20/2017 12:09	40.59247	56.912	142	0.01753
9/20/2017 12:09	40.59629	56.924	144	0.01371
9/20/2017 12:09	40.59821	56.912	146	0.01179
9/20/2017 12:09	40.59247	56.912	148	0.01753
9/20/2017 12:09	40.59247	56.912	150	0.01753
9/20/2017 12:09	40.59821	56.912	152	0.01179
9/20/2017 12:09	40.59821	56.912	154	0.01179
9/20/2017 12:09	40.59821	56.912	156	0.01179
9/20/2017 12:09	40.59821	56.912	158	0.01179
9/20/2017 12:09	40.59821	56.912	160	0.01179
9/20/2017 12:09	40.59821	56.912	162	0.01179
9/20/2017 12:09	40.59821	56.912	164	0.01179
9/20/2017 12:09	40.59821	56.912	166	0.01179
9/20/2017 12:09	40.59247	56.9	168	0.01753
9/20/2017 12:09	40.59821	56.912	170	0.01179
9/20/2017 12:09	40.59247	56.9	172	0.01753
9/20/2017 12:09	40.59821	56.912	174	0.01179
9/20/2017 12:09	40.59247	56.9	176	0.01753
9/20/2017 12:09	40.59247	56.9	178	0.01753
9/20/2017 12:09	40.59247	56.9	180	0.01753
9/20/2017 12:09	40.59247	56.9	182	0.01753
9/20/2017 12:10	40.59247	56.9	184	0.01753

Korth Property
Monitoring Well MW-5

9/20/2017 12:10	40.58481	56.9		186	0.02519
9/20/2017 12:10	40.59247	56.9		188	0.01753
9/20/2017 12:10	40.58481	56.9		190	0.02519
9/20/2017 12:10	40.59247	56.9		192	0.01753
9/20/2017 12:10	40.59247	56.9		194	0.01753
9/20/2017 12:10	40.58481	56.9		196	0.02519
9/20/2017 12:10	40.59247	56.9		198	0.01753
9/20/2017 12:10	40.59247	56.9		200	0.01753
9/20/2017 12:10	40.59247	56.9		202	0.01753
9/20/2017 12:10	40.59247	56.9		204	0.01753
9/20/2017 12:10	40.59247	56.9		206	0.01753
9/20/2017 12:10	40.59247	56.9		208	0.01753
9/20/2017 12:10	40.59247	56.9		210	0.01753
9/20/2017 12:10	40.59629	56.888		212	0.01371
9/20/2017 12:10	40.59629	56.888		214	0.01371
9/20/2017 12:10	40.59629	56.888		216	0.01371
9/20/2017 12:10	40.59629	56.888		218	0.01371
9/20/2017 12:10	40.59629	56.888		220	0.01371
9/20/2017 12:10	40.59629	56.888		222	0.01371
9/20/2017 12:10	40.60395	56.888		224	0.00605
9/20/2017 12:10	40.59629	56.888		226	0.01371
9/20/2017 12:10	40.59629	56.888		228	0.01371
9/20/2017 12:10	40.60395	56.888		230	0.00605
9/20/2017 12:10	40.59629	56.888		232	0.01371
9/20/2017 12:10	40.60395	56.888		234	0.00605
9/20/2017 12:10	40.59629	56.888		236	0.01371
9/20/2017 12:10	40.59629	56.888		238	0.01371
9/20/2017 12:10	40.59629	56.888		240	0.01371
9/20/2017 12:10	40.59629	56.888		242	0.01371
9/20/2017 12:11	40.59821	56.876		244	0.01179
9/20/2017 12:11	40.59821	56.876		246	0.01179
9/20/2017 12:11	40.59629	56.888		248	0.01371
9/20/2017 12:11	40.59629	56.888		250	0.01371
9/20/2017 12:11	40.59821	56.876		252	0.01179
9/20/2017 12:11	40.60395	56.888		254	0.00605
9/20/2017 12:11	40.59821	56.876		256	0.01179
9/20/2017 12:11	40.59821	56.876		258	0.01179
9/20/2017 12:11	40.59821	56.876		260	0.01179
9/20/2017 12:11	40.59247	56.876		262	0.01753
9/20/2017 12:11	40.59821	56.876		264	0.01179
9/20/2017 12:11	40.59821	56.876		266	0.01179
9/20/2017 12:11	40.59821	56.876		268	0.01179
9/20/2017 12:11	40.60586	56.876		270	0.00414
9/20/2017 12:11	40.59821	56.876		272	0.01179
9/20/2017 12:11	40.59821	56.876		274	0.01179
9/20/2017 12:11	40.60586	56.876		276	0.00414
9/20/2017 12:11	40.60586	56.876		278	0.00414

Korth Property
Monitoring Well MW-5

9/20/2017 12:11	40.60586	56.876	280	0.00414
9/20/2017 12:11	40.59821	56.876	282	0.01179
9/20/2017 12:11	40.60586	56.876	284	0.00414
9/20/2017 12:11	40.59821	56.876	286	0.01179
9/20/2017 12:11	40.60586	56.876	288	0.00414
9/20/2017 12:11	40.60586	56.876	290	0.00414
9/20/2017 12:11	40.60586	56.876	292	0.00414
9/20/2017 12:11	40.60586	56.876	294	0.00414
9/20/2017 12:11	40.60395	56.864	296	0.00605
9/20/2017 12:11	40.60395	56.864	298	0.00605
9/20/2017 12:11	40.60395	56.864	300	0.00605
9/20/2017 12:11	40.60395	56.864	302	0.00605
9/20/2017 12:12	40.60395	56.864	304	0.00605
9/20/2017 12:12	40.59629	56.864	306	0.01371
9/20/2017 12:12	40.60395	56.864	308	0.00605
9/20/2017 12:12	40.60395	56.864	310	0.00605
9/20/2017 12:12	40.60395	56.864	312	0.00605
9/20/2017 12:12	40.60395	56.864	314	0.00605
9/20/2017 12:12	40.60395	56.864	316	0.00605
9/20/2017 12:12	40.59629	56.864	318	0.01371
9/20/2017 12:12	40.59629	56.864	320	0.01371
9/20/2017 12:12	40.60395	56.864	322	0.00605
9/20/2017 12:12	40.60395	56.864	324	0.00605
9/20/2017 12:12	40.60395	56.864	326	0.00605
9/20/2017 12:12	40.59629	56.864	328	0.01371
9/20/2017 12:12	40.60395	56.864	330	0.00605
9/20/2017 12:12	40.60969	56.864	332	0.00031
9/20/2017 12:12	40.60395	56.864	334	0.00605
9/20/2017 12:12	40.60969	56.864	336	0.00031

END OF DATA FILE OF DATALOGGER FOR WINDOWS

APPENDIX F/ QUALIFICATIONS OF METCO PERSONNEL

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.

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.

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.

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.

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

Bryce L. Kujawa

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#17138).
- Member of the Geological Society of America

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Hydrogeology, Contaminant Hydrogeology, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth History, Physical Geology, Structural Geology, Computers in Geology, Geographic Informational Systems, Global Environmental Change, and General Chemistry.

Work Experience

With METCO since June, 2016 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.

Tyler Woodke

Professional Title

- Staff Scientist

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.

APPENDIX G/ STANDARD OF CARE

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.

J. T. Powell — 4/6/18

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."

R. J. Anderson — 4/6/18

Ronald J. Anderson PG
Senior Hydrogeologist/Project Manager

Date