Site Investigation Report

LeMay Property
721 Belknap Street
Superior, Wisconsin

October 13, 2016
by METCO
WDNR File Reference #: 03-16-560360
PECFA Claim #: 54880-2934-21

METCO

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This document was prepared by:

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Staff Scientist

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Senior Hydrogeologist/Project Manager

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October 13, 2016

WDNR BRRTS#: 03-16-560360
PECFA Claim #: 54880-2934-21-A

Mike LeMay
721 Belknap Street
Superior, WI 54880

Dear Mr. LeMay,

Enclosed is our "Site Investigation Report" concerning the LeMay Property site in Superior, 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 data collected to date, the WDNR will likely require additional work to move this site toward "closure" and are as follows:

[1] Soil contamination exceeding NR720 Direct Contact RCL and/or Soil Saturation Concentration (C-Sat) values exist in soil borings G-1, G-2, G-4, G-6, G-12, and MW-1. These may be able to be addressed via a cap maintenance plan (currently covered with concrete and asphalt) or excavation/disposal project.

[2] Due to the NR140 Enforcement Standard (ES) exceedances in monitoring wells MW-1 and MW-2, and that only four rounds of groundwater monitoring have been conducted, additional groundwater monitoring may be required to further assess contaminant trends.

[3] Due to the shallow groundwater and soil contamination near and/or beneath the building, vapor assessment of the on-site building (721 Belknap Street) may also be required to assess the risk of vapor intrusion.

Per response from the WDNR, METCO will proceed with this project.

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

Sincerely,

Jason T. Powell
Staff Scientist

C: Carrie Stoltz – WDNR

EXECUTIVE SUMMARY

A gas station has operated on the subject property from approximately the 1950s until the 1980s. Bill LeMay purchased the property in the 1980's and removed two gasoline USTs and associated dispensers. Currently the property is used as an archery and sporting goods store.

On August 21, 1995, Northwest Petroleum removed a 500-gallon waste oil UST and a 500 gallon fuel oil UST from the property. On August 31, 1995, Northwest Petroleum reported to the WDNR that a hole was observed in the bottom of the waste oil UST along with possible staining in the soil beneath the tank. The WDNR subsequently opened a LUST case, Sportsmans Choice Archery & Fishing – BRRTS # 03-16-00942. On November 14, 1995, analytical results from a soil sample that was collected beneath the waste oil tank during its removal were submitted to the WDNR. The soil analytical results showed no detects for DRO and the LUST case was closed.

In July 2012, during a site assessment for the Wisconsin Department of Transportation, TRC Environmental conducted two soil borings (B26A and B26B) adjacent to the subject property. One soil sample was collected from each boring for VOC and Lead analysis. Soil boring B26A was completed along Belknap Avenue and showed elevated levels of VOCs at 0.5 to 2 feet. Soil boring B26B was completed along Fisher Avenue and showed no detects for VOCs at 0.5 to 2.5 feet. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

In 2014, METCO was contracted to complete the site investigation, which consisted of a Geoprobe project, a Drilling project, and four rounds of groundwater monitoring. Results clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Local unconsolidated materials generally consists of clay to clay with gravel from surface to at least 15 feet bgs. Medium to coarse grained sand seams were also encountered in soil boring MW-4 from 4.5-7 feet and soil borings MW-6 and MW-7 from 12.5-13.5 feet bgs. Fill material consisting of sand to sand with gravel was encountered in the area of the former UST's and dispener islands and a few other borings from surface to depths ranging from 2-13 feet bgs.

- The unconsolidated materials are underlain by Pre-Cambrian sandstone at approximately 200 to 300 feet below ground surface.

- According to data collected from the monitoring wells, the depth to groundwater ranges from 1.20 to 7.62 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is generally toward the north/northeast.

- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former UST and dispenser islands on the south end of the property. This consists of an irregular shaped area that appears to measure up to approximately 45 feet long, up to approximately 38 feet wide, and up to 2 feet thick. An area of saturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact RCL and/or Soil Saturation Concentration (C-Sat) values, exists in the area of the former UST's and dispenser islands. This consists of an oval shaped area that appears to measure up to 69 feet long, up to 43 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's and dispensers and has migrated toward the north/northeast. This plume is approximately 121 feet long and 90 feet wide.

- Based on the most recent groundwater analytical results, two of the monitoring wells (MW-1 and MW-2) show NR140 ES and/or PAL exceedances. The other five monitoring wells (MW-3 thru MW-7) currently show no detects for any contaminants of concern.

- Based on the receptor survey, there appears to be some risk of contaminant migration along a sewer lateral and a water lateral due to the shallow groundwater (1-2 feet bgs) and elevated levels of soil and groundwater contamination in the area of these utilities. There does not appear to be any risk to any surface waters or water supply wells.

- The extent of soil contamination exceeding NR720 Non-Industrial Direct Contact RCL and/or C-Sat values and groundwater contamination exceeding the NR140 ES appears to extend underneath the on-site building (721 Belknap Street). Due to the shallow groundwater (1-2 feet bgs) and elevated levels of saturated soil (direct contact) and groundwater contamination near the building, the building will likely need to be assessed for the risk of vapor intrusion.

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 data collected to date, the WDNR will likely require additional work to move this site toward “closure” and are as follows:

[1] Soil contamination exceeding NR720 Direct Contact RCL and/or Soil Saturation Concentration (C-Sat) values exist in soil borings G-1, G-2, G-4, G-6, G-12, and MW-1. These may be able to be addressed via a cap maintenance plan (currently covered with

concrete and asphalt) or excavation/disposal project.

[2] Due to the NR140 Enforcement Standard (ES) exceedances in monitoring wells MW-1 and MW-2, and that only four rounds of groundwater monitoring have been conducted, additional groundwater monitoring may be required to further assess contaminant trends.

[3] Due to the shallow groundwater and soil contamination near and/or beneath the building, vapor assessment of the on-site building (721 Belknap Street) may also be required to assess the risk of vapor intrusion.

Per response from the WDNR, METCO will proceed with this project.

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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

Mike LeMay
721 Belknap Street
Superior, WI 54880
(715) 394-6077

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

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

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

Range Environmental Drilling
2114 2nd Avenue East
Hibbing, MN 55746
(218) 966-6054

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

1.3 Site Location

Site address:
721 Belknap Street
Superior, WI 54880

Latitude and Longitude:
46° 43' 15" N and 92° 5' 19" W

WTM Coordinates:
360381, 696266

Township/Range:
SE ¼, SW ¼, Section 14, Township 49 North, Range 14 West, Douglas County

1.4 Site History

A gas station has operated on the subject property from approximately the 1950s until the 1980s. Bill LeMay purchased the property in the 1980's and removed two gasoline USTs and associated dispensers. Currently the property is used as an archery and sporting goods store.

On August 21, 1995, Northwest Petroleum removed a 500-gallon waste oil UST and a 500 gallon fuel oil UST from the property. On August 31, 1995, Northwest Petroleum reported to the WDNR that a hole was observed in the bottom of the waste oil UST along with possible staining in the soil beneath the tank. The WDNR subsequently opened a LUST case, Sportsmans Choice Archery & Fishing – BRRTS # 03-16-00942. On November 14, 1995, analytical results from a soil sample that was collected beneath the waste oil tank during its removal were submitted to the WDNR. The soil analytical results showed no detects for DRO and the LUST case was closed.

In July 2012, during a site assessment for the Wisconsin Department of Transportation, TRC Environmental conducted two soil borings (B26A and B26B) adjacent to the subject property. One soil sample was collected from each boring for VOC and Lead analysis. Soil boring B26A was completed along Belknap Avenue and showed elevated levels of VOCs at 0.5 to 2 feet. Soil boring B26B was completed along Fisher Avenue and showed no detects for VOCs at 0.5 to 2.5 feet. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

Numerous other LUST/ERP sites exist in the City of Superior, the nearest being the Superior Post Office (BRRTS# 03-16-000507), which exists approximately 265 feet to the northwest of the subject property.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Superior is located in the eastern portion of the Lake Superior Basin. This area is characterized by a nearly flat, but deeply dissected lake plain adjoining Lake Superior. The plain was formed on thick deposits of red lake clay, which were deposited during the end of the last glacial period, when Lake Superior was at higher stages.

The elevation of the site is approximately 630 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 consists of brown to red clay to clay with gravel from surface to at least 15 feet bgs. Tan to gray to red medium to coarse grained sand seams were also encountered in soil boring MW-4 from 4.5-7 feet and soil borings MW-6 and MW-7 from 12.5-13.5 feet bgs. Fill material consisting of sand to sand with gravel was encountered in the area of the former UST's and dispener islands and a few other borings from surface to depths ranging from 2-13 feet bgs.

The unconsolidated materials are underlain by Pre-Cambrian sandstone at approximately 200 to 300 feet below ground surface.

Please note that this is a generalization of the local geology and may not be consistent throughout the entire investigation area.

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 1.20 to 7.62 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 north/northeast. Groundwater Flow Direction Maps are presented in Section 6.

2.2 Receptors

Buildings, Basements, Sumps, Utility Corridors

The extent of petroleum contamination in soil and groundwater comes into contact with buried water lateral, sewer lateral, telephone, electric, and natural gas lines. Buried telephone, electric, and natural gas lines typically exist within 30 inches of ground surface and are backfilled with native soil and do not appear to be preferential contaminant migration pathways. The sewer and water laterals are privately owned utilities and there is no documentation of their depth or backfill. However, if sand or gravel was installed around the utility lines, these could be acting as preferential contaminant migration pathways since these utility lines exist at or below the water table.

The extent of soil contamination exceeding NR720 Non-Industrial Direct Contact RCL and/or C-Sat values and groundwater contamination exceeding the NR140 ES appears to extend underneath the on-site building (721 Belknap Street). Due to the shallow groundwater (1-2 feet bgs) and elevated levels of saturated soil (direct contact) and groundwater contamination near the building, the building will likely need to be assessed for the risk of vapor intrusion.

Municipal and Private Water Supply Wells

The subject property and surrounding properties are all served by the City of Superior municipal water supply, which draws it's potable water from Lake Superior. 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 an unnamed creek, which exists approximately 2,900 feet to the southeast of the subject property. Currently, it does not appear that the petroleum contamination has migrated to any surface waters.

3.0 SITE INVESTIGATION RESULTS, RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

1) Collected site background information.
2) On February 6, 2014, METCO prepared a LUST Investigation Field Procedures Workplan.
3) On June 2, 2014, METCO completed eleven Geoprobe borings and installed two temporary wells. Twenty-one soil samples and nine groundwater samples were collected for field and/or laboratory analysis. Groundwater samples were not collected from the temporary wells as they were dry.
4) On June 4, 2014, METCO collected a groundwater sample from one temporary well (TW-8) for laboratory analysis. A groundwater sample was not collected from temporary well TW-7 as it was still dry. METCO personnel removed the entire screens and casings and properly abandoned the temporary wells at this time.
5) On April 20-21, 2015, METCO completed two Geoprobe borings, installed one temporary well, and completed seven soil borings which were converted to monitoring wells. Thirty-one soil samples and one groundwater sample were collected for field and/or laboratory analysis. Upon completion, monitoring wells MW-2 and MW-7 were properly developed. The other monitoring wells were not developed as they were dry.
6) On June 24, 2015, METCO collected groundwater samples from the monitoring well network and temporary well TW-13 for field and/or laboratory analysis (Round 1). METCO personnel removed the entire screen and casing and properly abandoned temporary well TW-13 after it was sampled. 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.
7) On September 24, 2015, METCO collected groundwater samples from the monitoring well network for field and laboratory analysis (Round 2).
8) On October 30, 2015, DKS Transport Services, LLC picked up and properly disposed of 2 drums of soil cuttings.
9) On May 31, 2016, METCO collected groundwater samples from the monitoring well network for field and laboratory analysis (Round 3).
10) On August 30, 2016, METCO collected groundwater samples from the

monitoring well network for field and laboratory analysis (Round 4).

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 July 16-19, 2012, during a site assessment for the Wisconsin Department of Transportation, TRC Environmental completed two soil borings (B26A and B26B) adjacent to the subject property with two soil samples collected for field and/or laboratory analysis (PID and VOC).

On June 2, 2014, during the Geoprobe project, eleven soil borings (G-1 thru G-11) were completed with twenty-one soil samples collected for field and/or laboratory analysis (PID, VOC, PVOC, Naphthalene, and Lead).

On April 20-21, 2015, during the Geoprobe/Drilling project, nine soil borings were completed with thirty-one soil samples collected for field and/or laboratory analysis (PID, PVOC, Naphthalene, TCLP-Benzene, and TCLP-Lead).

Soil analytical results are summarized in the Soil Analytical Tables with exceedances of the NR720 Groundwater RCL's, Direct Contact RCL's and/or Soil Saturation Concentration (C-Sat) 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 June 2, 2014, during the Geoprobe project, nine groundwater samples were collected for laboratory analysis (PVOC and Naphthalene). Two temporary wells were installed during the Geoprobe project.

On June 4, 2014, as part of the Geoprobe project, one groundwater sample was collected from temporary well TW-8 for laboratory analysis (PVOC and Naphthalene). A groundwater sample was not collected from temporary well TW-7 as it was still dry. The temporary wells were subsequently abandoned.

On April 20-21, 2015, during the Geoprobe/Drilling project, seven monitoring wells and one temporary well were installed. A groundwater sample was collected from soil boring G-13 for laboratory analysis (PVOC and Naphthalene).

On June 24, 2015, METCO collected groundwater samples from the monitoring well network for laboratory analysis (VOC's, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, and Sulfate). A groundwater sample was also collected from temporary well TW-13 for laboratory analysis (PVOC and Naphthalene). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from the monitoring wells. Temporary well TW-13 was subsequently abandoned.

On September 24, 2015, METCO collected groundwater samples from the monitoring well network for laboratory analysis (PVOC, Naphthalene, and Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from the monitoring wells.

On May 31, 2016, METCO collected groundwater samples from the monitoring well network for laboratory analysis (PVOC, Naphthalene, and Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from the monitoring wells.

On August 30, 2016, METCO collected groundwater samples from the monitoring well network for laboratory analysis (PVOC, Naphthalene, and Dissolved Lead). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from the monitoring wells.

Geoprobe boring and monitoring/temporary well groundwater analytical results are summarized in the Groundwater Analytical Results Summary Table with exceedances of the NR140 Preventive Action Limits (PAL) and Enforcement Standards (ES) noted.

The Geoprobe boring and monitoring/temporary 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 Conductivities

On June 24, 2015, METCO conducted slug tests on monitoring wells MW-2, MW-3, and MW-4. 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-2
Hydraulic Conductivity (K) = 1.27E-03 cm/sec
Transmissivity = 4.81E-01 cm^2/sec
Flow Velocity (V=KI/n) = 162.39575 m/yr

Monitoring Well MW-3
Hydraulic Conductivity (K) = 1.97E-04 cm/sec
Transmissivity = 6.23E-02 cm^2/sec
Flow Velocity (V=KI/n) = 25.09558 m/yr

Monitoring Well MW-4
Hydraulic Conductivity (K) = 1.02E-04 cm/sec
Transmissivity = 3.73E-02 cm^2/sec
Flow Velocity (V=KI/n) = 13.05504 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-2, -3, and -4 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 consists of clay to clay with gravel from surface to at least 15 feet bgs. Medium to coarse grained sand seams were also encountered in soil boring MW-4 from 4.5-7 feet and soil borings MW-6 and MW-7 from 12.5-13.5 feet bgs. Fill material consisting of sand to sand with gravel was encountered in the area of the former UST's and dispener islands and a few other borings from surface to depths ranging from 2-13 feet bgs.

The unconsolidated materials are underlain by Pre-Cambrian sandstone at approximately 200 to 300 feet below ground surface.

According to data collected from the monitoring wells, the depth to groundwater

ranges from 1.20 to 7.62 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is generally toward the north/northeast.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former UST and dispenser islands on the south end of the property. This consists of an irregular shaped area that appears to measure up to approximately 45 feet long, up to approximately 38 feet wide, and up to 2 feet thick. An area of saturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact RCL and/or Soil Saturation Concentration (C-Sat) values, exists in the area of the former UST's and dispenser islands. This consists of an oval shaped area that appears to measure up to 69 feet long, up to 43 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's and dispensers and has migrated toward the north/northeast. This plume is approximately 121 feet long and 90 feet wide.

Based on the most recent groundwater analytical results, two of the monitoring wells (MW-1 and MW-2) show NR140 ES and/or PAL exceedances. The other five monitoring wells (MW-3 thru MW-7) currently show no detects for any contaminants of concern.

Based on the receptor survey, there appears to be some risk of contaminant migration along a sewer lateral and a water lateral due to the shallow groundwater (1-2 feet bgs) and elevated levels of soil and groundwater contamination in the area of these utilities. There does not appear to be any risk to any surface waters or water supply wells.

The extent of soil contamination exceeding NR720 Non-Industrial Direct Contact RCL and/or C-Sat values and groundwater contamination exceeding the NR140 ES appears to extend underneath the on-site building (721 Belknap Street). Due to the shallow groundwater (1-2 feet bgs) and elevated levels of saturated soil (direct contact) and groundwater contamination near the building, the building will likely need to be assessed for the risk of vapor intrusion.

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.

3.6 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 LeMay Property site is currently a "medium risk" site.

4.0 CONCLUSIONS

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 data collected to date, the WDNR will likely require additional work to move this site toward "closure" and are as follows:

[1] Soil contamination exceeding NR720 Direct Contact RCL and/or Soil Saturation Concentration (C-Sat) values exist in soil borings G-1, G-2, G-4, G-6, G-12, and MW-1. These may be able to be addressed via a cap maintenance

plan (currently covered with concrete and asphalt) or excavation/disposal project.

[2] Due to the NR140 Enforcement Standard (ES) exceedances in monitoring wells MW-1 and MW-2, and that only four rounds of groundwater monitoring have been conducted, additional groundwater monitoring may be required to further assess contaminant trends.

[3] Due to the shallow groundwater and soil contamination near and/or beneath the building, vapor assessment of the on-site building (721 Belknap Street) may also be required to assess the risk of vapor intrusion.

Per response from the WDNR, METCO will proceed with this project.

5.0 REFERENCES

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

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

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Young, H.L. and Skinner E.L., S.M., 1974, Water Resources of Wisconsin – Lake Superior Basin, Hydrologic Investigations, Atlas HA-524, U.S. Geological Survey, Washington D.C.

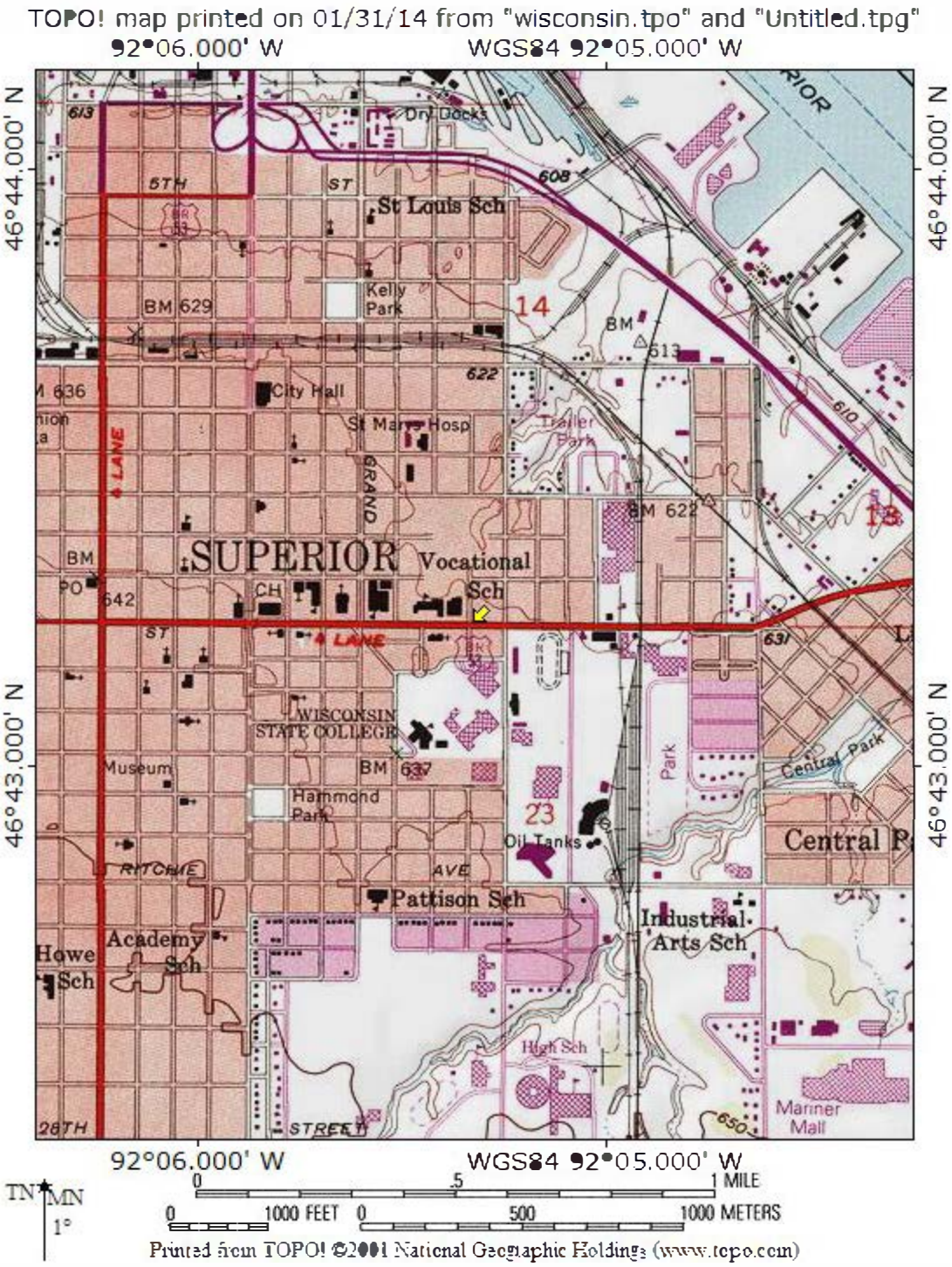
Seamless USGS Topographic Maps on CD-ROM, 2001, National Geographic Holdings, Inc., San Francisco, California.

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

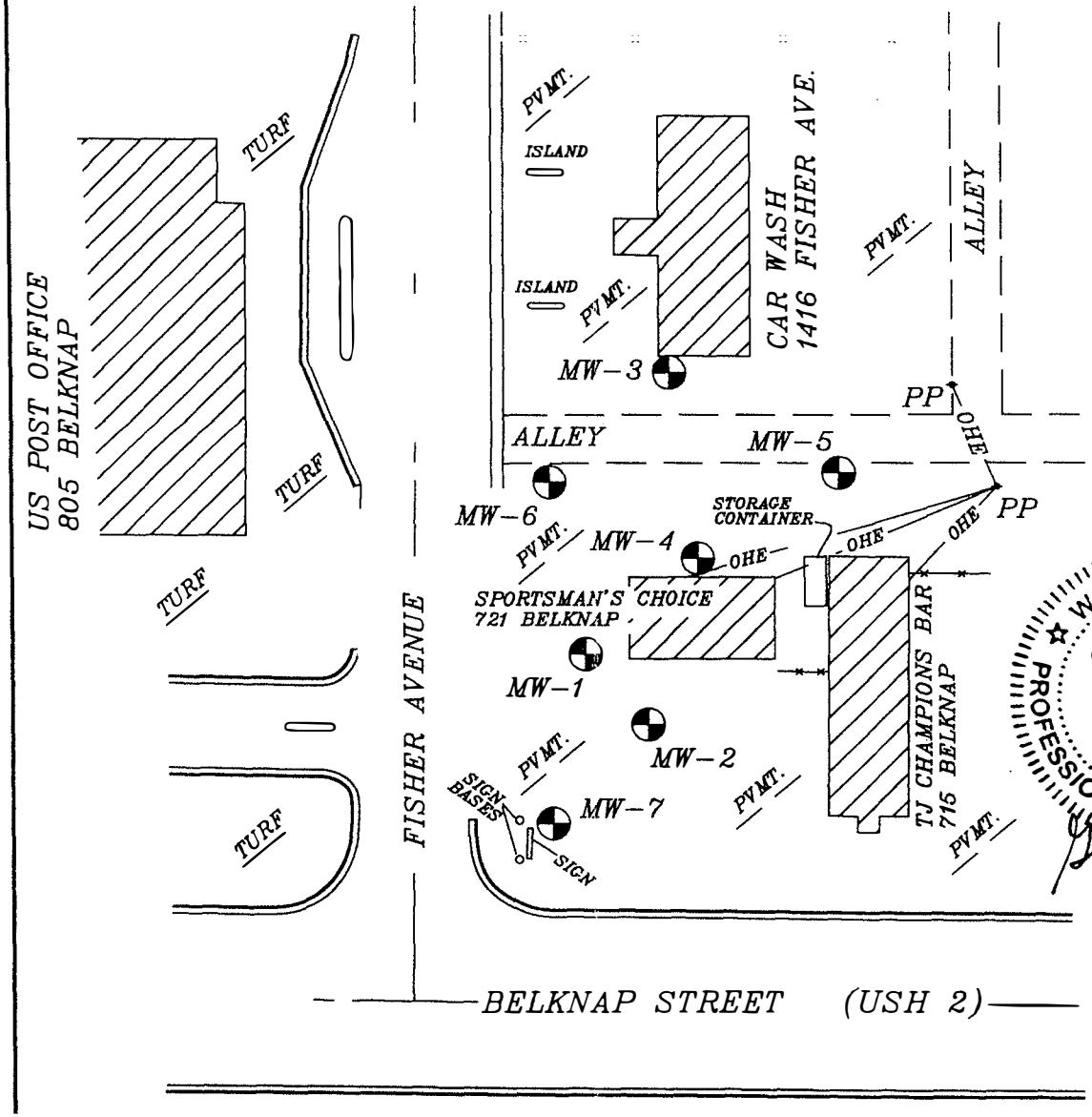
Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

Other information and data was collected from Mike LeMay, City of Superior, Diggers Hotline, Range Environmental Drilling, 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
LEMAY PROPERTY – SUPERIOR, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM



KEY

- MONITORING WELL - FLUSH TYPE
- PP POWERPOLE
- OHE OVERHEAD POWER LINE

SCALE 1" = 60'

0' 60' 120'

N

MONITORING WELLS
TOP OF WELL & TOP OF CASING
ELEVATIONS (NAVD88)

MW-1	TW = 631.90'	TC = 631.60'
MW-2	TW = 632.37'	TC = 631.92'
MW-3	TW = 630.60'	TC = 630.25'
MW-4	TW = 632.17'	TC = 631.70'
MW-5	TW = 630.91'	TC = 630.60'
MW-6	TW = 630.38'	TC = 630.14'
MW-7	TW = 632.00'	TC = 631.63'

WISCONSIN
GREGORY A. FAUERBACH
S-2169
HILLSBORO
WI
PROFESSIONAL LAND SURVEYOR
6-27-15

DRAWN BY: GREG FAUERBACH
DATE: 6-24-15 FIELD
DWG. NO.: 52915

REVISIONS

FAUERBACH SURVEYING & ENG.
PO BOX 140, HILLSBORO, WI 54634
PH/FAX 608-489-3363

PROJECT:
LeMAY PROPERTY
721 BELKNAP ST. (USH 2)
SUPERIOR, WI 54880

SHEET NAME: LOCATION MAP
PAGE: 1 OF 1

WELL	DOUGLAS COUNTY COORD. SYSTEM NAD83(2011) NORTH	EAST	TOP OF WELL ELEVATION (NAVD 88)	TOP OF PVC CASING ELEVATION (NAVD 88)
MW-1	305514.22	150830.77	631.90'	631.60'
MW-2	305490.95	150851.33	632.37'	631.92'
MW-3	305608.07	150858.79	630.60'	630.25'
MW-4	305546.17	150867.96	632.17'	631.70'
MW-5	305574.38	150914.28	630.91'	630.60'
MW-6	305571.55	150819.11	630.38'	630.14'
MW-7	305458.16	150819.87	632.00'	631.63'

DRAWN BY: GREG FAUERBACH
DATE: 6-24-15 FIELD
DWG. NO.: 52915

REVISIONS

FAUERBACH SURVEYING & ENG.
PO BOX 140, HILLSBORO, WI 54634
PH/FAX 608-489-3363

PROJECT:
LeMAY PROPERTY
721 BELKNAP ST. (USH 2)
SUPERIOR, WI 54880

SHEET NAME: DATA SHEET

PAGE: 1 OF 1

B.I.b
DETAILED SITE MAP
LEMAY PROPERTY

METCO
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Fax: (608) 781-8893
Excellence through experience

SUPERIOR,
WISCONSIN

DRAWN BY: ED
DATE: 1/31/14

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

● - P2ESA SOIL BORING LOCATION

✕ - GEOPROBE BORING LOCATION

⊕ - MONITORING WELL LOCATION

WATER
SEWER
NATURAL GAS
BURIED ELECTRIC
OVERHEAD ELECTRIC
BURIED PHONE

SCALE:
1 INCH = 30 FEET
0 15 30

SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507

FISHER STREET

VAC
CONCRETE
ASPHALT
CAR WASH
1416 FISHER AVE
VAC
MW-3
ALLEY
MW-6
GRAVEL
G-10
G-11
MW-5
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
MW-4
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
G-9
G-5
MW-1
G-6
ASPHALT
GRASS
SIDEWALK
GRASS
B26B
G-13/TW-13
CONCRETE
GRASS
MW-2
G-2
BROKEN ASPHALT
G-12
G-8
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
G-1
G-3
G-7
CHAMPIONS BAR & GRILL 715 BELKNAP ST
FORMER PUMP ISLANDS
ASPHALT
ASPHALT
SIDEWALK
MW-7
G-4
GRASS
SIDEWALK
CONCRETE
SIGN
B26A
SIDEWALK
SIDEWALK

BELKNAP STREET (US HWY 2)

BURGER KING

B.2.a
SOIL CONTAMINATION
LEMAY PROPERTY

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

● - P2ESA SOIL BORING LOCATION

✕ - GEOPROBE BORING LOCATION

⊕ - MONITORING WELL LOCATION

— · — · — WATER
— · · · — SEWER
— · — · — NATURAL GAS
— — — — BURIED ELECTRIC
═ ═ ═ ═ OVERHEAD ELECTRIC
- - - - - - BURIED PHONE

SCALE:
1 INCH = 30 FEET
0 15 30

N

FISHER STREET

SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507

GRASS
SIDEWALK
GRASS
ASPHALT
SIDEWALK
GRASS
SIDEWALK
SIDEWALK

VAC
CONCRETE
VAC
MW-3
ALLEY
MW-6
GRAVEL
G-10
G-11
MW-5
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
MW-4
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
G-5
G-9
MW-1
G-6
ASPHALT
B26B
G-13/TW-13
CONCRETE
GRASS
MW-2
G-2
BROKEN ASPHALT
G-12
ASPHALT
G-8
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
CHAMPIONS BAR & GRILL 715 BELKNAP ST
G-7
FORMER PUMP ISLANDS
G-1
G-3
ASPHALT
MW-7
G-4
CONCRETE
SIGN
B26A
SIDEWALK

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S AND/OR C-SAT VALUES.

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

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.b GROUNDWATER FLOW DIRECTION 6-24-15

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

- ● - P2ESA SOIL BORING LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- WATER
- SEWER
- NATURAL GAS
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- BURIED PHONE

SCALE:
1 INCH = 30 FEET
0 15 30

SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507

FISHER STREET

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.b GROUNDWATER FLOW DIRECTION 9-24-15

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

● - P2ESA SOIL BORING LOCATION

✕ - GEOPROBE BORING LOCATION

⊕ - MONITORING WELL LOCATION

SCALE:
1 INCH = 30 FEET
0 15 30

WATER
SEWER
NATURAL GAS
BURIED ELECTRIC
OVERHEAD ELECTRIC
BURIED PHONE

VAC
CONCRETE
VAC
VAC
626.37' MSL
MW-3
627.00' MSL
ALLEY
625.00' MSL
CONCRETE
ASPHALT
CAR WASH
1416 FISHER AVE
628.62' MSL
MW-6
GRAVEL
G-10
G-11
MW-5
624.39' MSL
ASPHALT
630.82' MSL
MW-4
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
GRASS
629.00' MSL
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
ASPHALT
G-9
G-5
MW-1
B26B
630.70' MSL
G-6
G-13/TW-13
630.34' MSL
CONCRETE
GRASS
MW-2
G-2
BROKEN ASPHALT
G-12
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
FORMER PUMP ISLANDS
G-1
G-3
G-7
CHAMPIONS BAR & GRILL 715 BELKNAP ST
ASPHALT
630.15' MSL
MW-7
G-4
G-8
ASPHALT
SIDEWALK
GRASS
SIDEWALK
SIGN
CONCRETE
B26A
SIDEWALK
SIDEWALK
GRASS
ASPHALT
GRASS
SIDEWALK
SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507
GRASS
SIDEWALK
GRASS
FISHER STREET

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.b GROUNDWATER FLOW DIRECTION 5-31-16

LEMAY PROPERTY

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

SCALE:
1 INCH = 30 FEET
0 15 30

- ● - P2ESA SOIL BORING LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- WATER
- SEWER
- NATURAL GAS
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- BURIED PHONE

VAC
CONCRETE
ASPHALT
CAR WASH
1416 FISHER AVE
VAC
625.74' MSL
MW-3
625.00' MSL
627.00' MSL
ALLEY
624.29' MSL
627.97' MSL
MW-6
GRAVEL
G-10
G-11
MW-5
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
629.62' MSL
MW-4
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
G-5
MW-1
G-9
ASPHALT
B25B
629.91' MSL
G-6
G-13/TW-13
CONCRETE
GRASS
630.43' MSL
MW-2
G-2
629.00' MSL
G-8
G-12
BROKEN ASPHALT
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
G-1
G-3
G-7
CHAMPIONS BAR & GRILL 715 BELKNAP ST
FORMER PUMP ISLANDS
ASPHALT
629.54' MSL
MW-7
G-4
CONCRETE
SIGN
B26A
SIDEWALK
SIDEWALK
SIDEWALK
SIDEWALK
GRASS
GRASS
GRASS
SIDEWALK
ASPHALT
SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507
FISHER STREET

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.b GROUNDWATER FLOW DIRECTION 8-30-16

LEMAY PROPERTY

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DATE: 1/31/14

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

- ● - P2ESA SOIL BORING LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- WATER
- SEWER
- NATURAL GAS
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- BURIED PHONE

SCALE:
1 INCH = 30 FEET
0 15 30

FISHER STREET

SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507

GRASS
SIDEWALK
GRASS
ASPHALT
GRASS
SIDEWALK
SIDEWALK

VAC
CONCRETE
ASPHALT
CONCRETE
CAR WASH
1416 FISHER AVE
VAC
625.92' MSL
MW-3
627.00' MSL
ALLEY
625.00' MSL
624.23' MSL
MW-5
ASPHALT
628.72' MSL
MW-6
GRAVEL
G-11
G-10
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
629.99' MSL
MW-4
629.00' MSL
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
G-9
G-5
MW-1
ASPHALT
B26B
630.14' MSL
G-6
G-13/TW-13
630.31' MSL
CONCRETE
GRASS
MW-2
G-2
BROKEN ASPHALT
G-12
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
CHAMPIONS BAR & GRILL 715 BELKNAP ST
G-8
G-1
G-3
G-7
FORMER PUMP ISLANDS
ASPHALT
630.01' MSL
MW-7
G-4
SIGN
CONCRETE
B26A
SIDEWALK
SIDEWALK

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.b GROUNDWATER ISOCONCENTRATION (8/30/16)

LEMAY PROPERTY

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

SCALE:
1 INCH = 30 FEET
0 15 30

- ● - P2ESA SOIL BORING LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- WATER
- SEWER
- NATURAL GAS
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- BURIED PHONE

VAC
CONCRETE
ASPHALT
CAR WASH
1416 FISHER AVE
VAC
MW-3
ALLEY
MW-6
G-10
GRAVEL
G-11
MW-5
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
MW-4
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507
GRASS
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING
721 BELKNAP STREET
SIDEWALK
G-9
G-5
MW-1
G-6
ASPHALT
GRASS
B26B
FISHER STREET
GRASS
CONCRETE
G-13
TW-13
GRASS
MW-2
G-2
BROKEN ASPHALT
G-12
G-8
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
CHAMPIONS BAR & GRILL
715 BELKNAP ST
G-7
FORMER PUMP ISLANDS
G-1
G-3
ASPHALT
ASPHALT
SIDEWALK
ES
G-4
MW-7
PAL
CONCRETE
SIGN
B26A
GRASS
SIDEWALK
SIDEWALK
SIDEWALK

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

BELKNAP STREET (US HWY 2)

BURGER KING

B.3.a.I GEOLOGIC CROSS SECTION FIGURE

LEMAY PROPERTY

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DATE: 1/31/14

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

SCALE:
1 INCH = 30 FEET
0 15 30

- ● - P2ESA SOIL BORING LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ⊕ - MONITORING WELL LOCATION
- WATER
- SEWER
- NATURAL GAS
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- BURIED PHONE

VAC
CONCRETE
ASPHALT
CAR WASH
1416 FISHER AVE
CONCRETE
VAC
MW-3
ALLEY
A'
MW-6
G-10
G-11
GRAVEL
MW-5
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
MW-4
GRASS
STORAGE CONTAINER
REMOVED 550 GAL WASTE OIL UST-CLOSED LUST CASE 03-16-000942
SUPERIOR POST OFFICE
805 BELKNAP STREET
CLOSED LUST SITE
BRRTS# 03-16-000507
GRASS
SIDEWALK
FISHER STREET
GRAVEL
SPORTSMANS CHOICE ARCHERY & FISHING 721 BELKNAP STREET
G-9
G-5
MW-1
G-6
G-13/TW-13
GRASS
B26B
GRASS
CONCRETE
MW-2
G-2
BROKEN ASPHALT
G-12
G-8
ASPHALT
APPROXIMATE LOCATION OF REMOVED GASOLINE UST
G-1
G-3
G-7
CHAMPIONS BAR & GRILL 715 BELKNAP ST
ASPHALT
FORMER PUMP ISLANDS
ASPHALT
SIDEWALK
G-4
ES
MW-7
PAL
CONCRETE
SIGN
B26A
SIDEWALK
GRASS
SIDEWALK
SIDEWALK
A

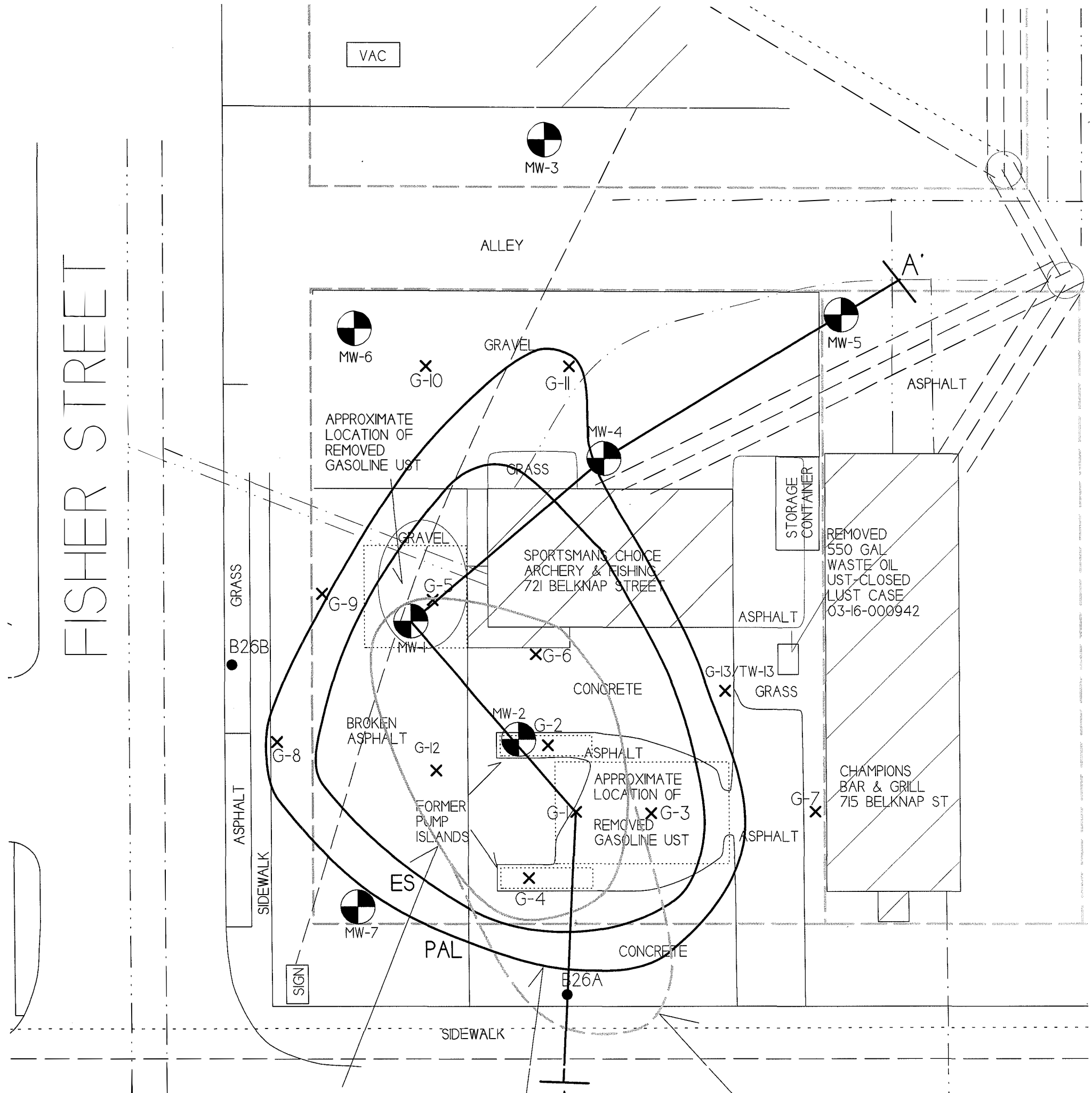
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S AND/OR C-SAT VALUES.

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

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S (DASHED LINE).

BELKNAP STREET (US HWY 2)

BURGER KING



ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S AND/OR C-SAT VALUES.

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S (DASHED LINE).

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

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

LEMAY PROPERTY

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DRAWN BY: ED
DATE: 1/31/14

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

SCALE:
1 INCH = 20 FEET
0 20

● = P2ESA SOIL BORING LOCATION

× = GEOPROBE BORING LOCATION

⊕ = MONITORING WELL LOCATION

WATER
SEWER
NATURAL GAS
BURIED ELECTRIC
OVERHEAD ELECTRIC
BURIED PHONE

B.3.a.3 GEOLOGIC CROSS SECTION FIGURE
LEMAY PROPERTY

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Fax: (608) 781-8593
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DRAWN BY: JJ 10/5/16

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

GROUNDWATER FLOW IS TOWARD THE NORTH/NORTHEAST.

- ⊕ = MONITORING WELL LOCATION
- ▲ = GEOPROBE BORING LOCATION
- ● = P2ESA SOIL BORING LOCATION
- ✕ = SOIL SAMPLING LOCATION
- ▼ = WATERTABLE BASED ON ALL TIME LOW MEASUREMENTS

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

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:
- P2ESA (7/16-19/2012)
- GEOPROBE PROJECT (6/2/2014)
- GEOPROBE/DRILLING PROJECT (4/20-21/2015)
- ROUND 4 GROUNDWATER SAMPLING (8/30/2016)

HORIZONTAL SCALE: 1 INCH = 20 FEET (0 – 20)

VERTICAL SCALE: 1 INCH = 4 FEET (4 – 0)

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

RED FINE TO COARSE GRAINED SAND

BROWN TO RED CLAY TO CLAY WITH GRAVEL

FILL MATERIAL

A SOUTHWEST — A' NORTHEAST

635.00' MSL
630.00' MSL
625.00' MSL
620.00' MSL
615.00' MSL
610.00' MSL

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

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

FORMER PUMP ISLANDS (ASPHALT COVERED)

AREA OF REMOVED UST (ASPHALT COVERED)

AREA OF REMOVED UST (GRAVEL COVERED)

ON-SITE BUILDING 721 BELKNAP ST.

BELKNAP ST (US HWY 2)

CONCRETE

BROKEN ASPHALT

GRAVEL

ALLEY

ASPHALT

B26A
0.5-2 FEET
76 PID
53.8 LEAD
0.87 B
1.21 E
0.53 N
1.43 T
4.91 TMB
4.64 X

G-1-1
3.5 FEET
1630 PID
8.49 LEAD
15.7 B
48 E
44 N
15.6 T
360 12.4 TMB
135 13.5 TMB
381 X

G-2-1
3.5 FEET
1075 PID
11.9 LEAD
26.8 B
70 E
26.7 N
53 T
67.6 TMB
412 X

MW-2-1
3.5 FEET
0 PID

MW-1-1
3.5 FEET
1150 PID
380 B
1100 E
330 N
1470 T
2580 12.4 TMB
820 13.5 TMB
6780 X

G-5-1
3.5 FEET
10 PID
3.2 LEAD
ND PVOC

MW-4-1
3.5 FEET
0 PID

MW-5-1
3.5 FEET
0 PID

G-1-2
8 FEET
850 PID
8.4 B
21.9 E
7 N
2.59 T
80.5 TMB
143 X

G-2-2
8 FEET
10 PID
0.0966 TMB
0.035-0.085 X

MW-2-2
8 FEET
12 PID

MW-1-2
8 FEET
85 PID

MW-4-2
8 FEET
0 PID

MW-5-2
8 FEET
0 PID

G-2-3
12 FEET
10 PID
0.0292 B
0.034 T
0.148 TMB
0.18 X

MW-2-3
12 FEET
7 PID

MW-1-3
12 FEET
120 PID

MW-4-3
12 FEET
0 PID

MW-5-3
12 FEET
0 PID

MW-2-4
14 FEET
7 PID

MW-1-4
14 FEET
1650 PID

MW-4-4
14 FEET
0 PID

MW-5-4
14 FEET
0 PID

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

G-1-W	G-2-W	MW-2	MW-1	G-5-W	MW-4	MW-5
3500 B	3400 B	<0.8 LEAD	<0.8 LEAD	720 B	<0.8 LEAD	<0.8 LEAD
2580 E	2260 E	420 B	910 B	903 E	<0.46 B	<0.46 B
<18.5 MTBE	<18.5 MTBE	269 E	19.9 E	<3.7 MTBE	<0.73 E	<0.73 E
870 N	770 N	<24.5 MTBE	<4.9 MTBE	70 N	<0.49 MTBE	<0.49 MTBE
2350 T	7300 T	150 N	101 N	<8 T	<2.6 N	<2.6 N
6120 TMB	5190 TMB	<19.5 T	10.5 T	75 TMB	<0.39 T	<0.39 T
18600 X	21200 X	192-233.5 TMB	44.6 TMB	102 X	<1.51 TMB	<1.51 TMB
		110 X	370-376.6 X		<2.06 X	<2.06 X

7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.2. Soil Analytical Results Table
LeMay Property BRRTS# 03-16-560360

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)	DIRECT CONTACT PVOC Exeedance Count	DIRECT CONTACT PVOC Hazard Index	DIRECT CONTACT PVOC Cumulative Cancer Risk
B26A	0.5-2.0	U	7/16-19/12	76	**53.80**	NS	NS	**0.87**	1.21	<0.025	0.53	**1.43**	**4.11**	**0.81**	**4.64**	SEE VOC SHEET	0	1.98E-01	8.5E-07
B26B	0.5-2.0	S	7/16-19/12	2	10.30	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	SEE VOC SHEET	0	2.58E-02	
G-1-1	3.5	S	06/02/14	1630	8.49	NS	NS	**15.7**	**48**	<2.5	**44**	**15.6**	**360***	**135**	**381***	NS	**5**	5.02E+00	2.6E-05
G-1-2	8.0	S	06/02/14	850	NS	NS	NS	**8.4**	**21.9**	<0.250	7	**2.59**	**60**	**20.5**	**143**	NS			
G-2-1	3.5	S	06/02/14	1075	11.9	NS	NS	**36**	**70**	<1.25	**26.7**	**53**	**15.6**	**52**	**412***	NS	**4**	1.23E+00	3.9E-05
G-2-2	8.0	S	06/02/14	10	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	0.067	0.0296	0.035-0.085	NS			
G-2-3	12.0	S	06/02/14	10	NS	NS	NS	**0.0292**	<0.025	<0.025	<0.025	0.034	0.106	0.042	0.18	NS			
G-3-1	3.5	S	06/02/14	120	<1.5	NS	NS	**0.0314**	0.155	<0.025	0.195	0.040	0.580	0.215	0.47	NS	0	8.63E-03	8.0E-08
G-3-2	5.0	S	06/02/14	470	NS	NS	NS	NOT SAMPLED								NS			
G-4-1	3.5	S	06/02/14	1750	13.1	NS	NS	**10.9**	**36**	<3	**14.1**	**3.7**	**14.5**	**41**	**260***	SEE VOC SHEET	**4**	7.21E-01	1.5E-05
G-4-2	8.0	S	06/02/14	1050	NS	NS	NS	**3.5**	**2.31**	<0.025	**1.34**	0.710	**7.2**	**2.32**	**9.39**	NS			
G-5-1	3.5	S	06/02/14	10	3.2	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	8.00E-03	
G-6-1	3.5	S	06/02/14	480	**494**	NS	NS	**162**	**108**	<1.25	**70**	**16.3**	**480***	**176**	**851.5***	NS	**6**	9.62E+00	1.4E-04
G-7-1	3.5	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-7-2	9.0	S	06/02/14	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-3	15.0	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-8-1	3.5	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-8-2	9.0	S	06/02/14	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-8-3	15.0	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-9-1	3.5	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-9-2	9.0	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-10-1	3.5	U	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
G-11-1	3.5	S	06/02/14	0	NS	NS	NS	NOT SAMPLED								NS			
MW-4-1	3.5	S	04/20/15	0	NOT SAMPLED											NS			
MW-4-2	8.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-4-3	12.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-4-4	14.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-5-1	3.5	U	04/20/15	0	NOT SAMPLED											NS			
MW-5-2	8.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-5-3	12.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-5-4	14.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-6-1	3.5	U	04/20/15	0	NOT SAMPLED											NS			
MW-6-2	8.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-6-3					NO RECOVERY											NS			
MW-6-4	14.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-7-1	3.5	S	04/20/15	70	NOT SAMPLED											NS			
MW-7-2	8.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-7-3	12.0	S	04/20/15	0	NOT SAMPLED											NS			
MW-7-4	14.0	S	04/20/15	5	NOT SAMPLED											NS			
G-12-1	0-4	S	04/20/15	130	NS	NS	NS	**3.2**	0.305	<0.025	**0.82**	1.06	**1.27**	**0.37**	2.27	NS	**1**	5.06E-02	2.3E-06
G-12-2	8.0	S	04/20/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-13-1	3.5	S	04/20/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-13-2	8.0	S	04/20/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-13-3	8-12	S	04/20/15	0	NOT SAMPLED											NS			
MW-1-1	3.5	S	04/21/15	1150	NS	NS	NS	**380**	**1200***	<2.5	**330**	**1470***	**2580***	**820***	**6780***	<0.45 TCLP LEAD 0.071 TCLP BENZENE	**7**	4.31E+01	4.8E-04
MW-1-2	8.0	S	04/21/15	85	NOT SAMPLED											NS			
MW-1-3	12.0	S	04/21/15	120	NOT SAMPLED											NS			
MW-1-4	14.0	S	04/21/15	1650	NOT SAMPLED											NS			
MW-2-1	3.5	S	04/21/15	0	NOT SAMPLED											NS			
MW-2-2	8.0	S	04/21/15	12	NOT SAMPLED											NS			
MW-2-3	12.0	S	04/21/15	7	NOT SAMPLED											NS			
MW-2-4	14.0	S	04/21/15	7	NOT SAMPLED											NS			
MW-3-1	3.5	U	04/21/15	0	NOT SAMPLED											NS			
MW-3-2	8.0	S	04/21/15	0	NOT SAMPLED											NS			
MW-3-3					NO RECOVERY											NS			
MW-3-4	14.0	S	04/21/15	0	NOT SAMPLED											NS			
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.659**	**1.11**	**1.38**		**3.94**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.49**	**7.47**	**59.4**	**5.15**	**818**	**89.8**	**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 & Asteric * = C-sat Exceedance
NS = Not Sampled NM = Not Measured
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds

A.2. Soil Analytical Results Table
LeMay Property BRRTS# 03-16-560360

Sampling Conducted on July 16-19, 2012 and June 2, 2014

VOC's				Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	**G-4-1**	**B26A**	**B26B**			
Sample Depth/ft.	**3.5**	**0.5-2.0**	**0.5-2.0**			
Solids Percent	76.4					
Lead/ppm	13.1	**53.8**	10.3	27	400	= =
Benzene/ppm	**10.9**	**0.87**	<0.025	0.00512	1.49	1820
Bromobenzene/ppm	< 1.300	ND	ND	= =	354	= =
Bromodichloromethane/ppm	< 2.700	ND	ND	0.000326	0.39	= =
Bromoform/ppm	< 3.000	ND	ND	0.00233	61.6	= =
tert-Butylbenzene/ppm	< 2.000	ND	ND	= =	183	183
sec-Butylbenzene/ppm	< 4.100	0.18	<0.025	= =	145	145
n-Butylbenzene/ppm	15.9	0.45	<0.040	= =	108	108
Carbon Tetrachloride/ppm	< 2.500	ND	ND	0.00388	0.85	= =
Chlorobenzene/ppm	< 1.600	ND	ND	= =	392	= =
Chloroethane/ppm	< 4.200	ND	ND	0.227	= =	= =
Chloroform/ppm	< 4.900	ND	ND	0.0033	0.42	= =
Chloromethane/ppm	< 18.100	ND	ND	0.0155	171	= =
2-Chlorotoluene/ppm	< 1.600	ND	ND	= =	= =	= =
4-Chlorotoluene/ppm	< 1.400	ND	ND	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 4.800	ND	ND	0.000173	0.01	= =
Dibromochloromethane/ppm	< 1.400	ND	ND	0.032	0.93	= =
1,4-Dichlorobenzene/ppm	< 3.300	ND	ND	0.144	3.48	= =
1,3-Dichlorobenzene/ppm	< 3.000	ND	ND	1.15	297	297
1,2-Dichlorobenzene/ppm	< 3.800	ND	ND	1.17	376	376
Dichlorodifluoromethane/ppm	< 5.700	ND	ND	3.08	135	= =
1,2-Dichloroethane (DCA)/ppm	< 3.600	ND	ND	0.00284	0.61	540
1,1-Dichloroethane/ppm	< 1.900	ND	ND	0.484	4.72	= =
1,1-Dichloroethene/ppm	< 2.100	ND	ND	0.00502	342	= =
cis-1,2-Dichloroethene/ppm	< 2.400	<0.025	<0.025	0.0412	156	= =
trans-1,2-Dichloroethene/ppm	< 2.900	ND	ND	0.0588	211	= =
1,2-Dichloropropane/ppm	< 0.950	ND	ND	0.00332	1.33	= =
2,2-Dichloropropane/ppm	< 4.600	ND	ND	= =	527	527
1,3-Dichloropropane/ppm	< 2.100	ND	ND	= =	1490	1490
Di-isopropyl ether/ppm	< 1.100	ND	ND	= =	2260	2260
EDB (1,2-Dibromoethane)/ppm	< 2.000	ND	ND	0.0000282	0.05	= =
Ethylbenzene/ppm	**36**	1.21	<0.025	1.57	7.47	480
Hexachlorobutadiene/ppm	< 9.500	ND	ND	= =	6.23	= =
Isopropylbenzene/ppm	6.500 "J"	0.32	<0.025	= =	= =	= =
p-Isopropyltoluene/ppm	< 3.100	0.11	<0.025	= =	162	162
Methylene chloride/ppm	< 5.700	<0.025	<0.025	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppm	< 3.000	<0.025	<0.025	0.027	59.4	8870
Naphthalene/ppm	14.100 "J"	0.53	<0.025	0.659	5.15	= =
n-Propylbenzene/ppm	25.3	0.95	<0.025	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 1.200	ND	ND	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppm	< 2.300	ND	ND	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppm	< 4.900	<0.025	<0.025	0.00454	30.7	= =
Toluene/ppm	3.700 "J"	**1.43**	<0.025	1.11	818	818
1,2,4-Trichlorobenzene/ppm	< 7.900	ND	ND	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppm	< 12.900	ND	ND	= =	48.9	= =
1,1,1-Trichloroethane/ppm	< 3.800	ND	ND	0.14	= =	= =
1,1,2-Trichloroethane/ppm	< 2.300	ND	ND	0.00324	1.48	= =
Trichloroethene (TCE)/ppm	< 2.800	<0.025	<0.025	0.00358	0.64	= =
Trichlorofluoromethane/ppm	< 8.600	ND	ND	= =	1120	= =
1,2,4-Trimethylbenzene/ppm	**145**	**4.11**	<0.025	1.38	89.8	219
1,3,5-Trimethylbenzene/ppm	**41**	**0.81**	<0.025		182	182
Vinyl Chloride/ppm	< 2.100	ND	ND	0.000138	0.07	= =
m&p-Xylene/ppm	**200***	**3.89**	<0.05	3.94	258	258
o-Xylene/ppm	**60***	**0.75**	<0.025			

NS = not sampled, NM = Not Measured
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
= = No Exceedences

A.1 Groundwater Analytical Table
(Geoprobe)
LeMay Property BRRTS# 03-16-560360

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
G-1-W	06/02/14	**3500**	**2580**	<18.5	**870**	**2350**	**6120**	**18600**
G-2-W	06/02/14	**3400**	**2260**	<18.5	**770**	**7300**	**5190**	**21200**
G-3-W	06/02/14	**173**	**1190**	<18.5	**350**	*380*	**3280**	**6250**
G-4-W	06/02/14	**1790**	**710**	<3.7	**680**	*470*	**4530**	**10900**
G-5-W	06/02/14	**720**	9.3	<3.7	*70*	<8	75	102
G-6-W	06/02/14	**5000**	*140*	<18.5	*61*	78	**634**	**2881**
G-9-W	06/02/14	0.49	<0.82	<0.37	<1.2	1.39	6.09	8.1
G-10-W	06/02/14	<0.27	<0.82	<0.37	<1.2	<0.8	<1.69	<2.41
G-11-W	06/02/14	*0.59*	<0.82	<0.37	<1.2	<0.8	5.8	3.44
TW-7	06/02/14	DRY						
TW-8	06/02/14	<0.27	1.34	<0.37	<1.2	*260*	1.13-1.99	6.89
G-12-W	04/20/15	**275**	40	<0.49	4.7	19.6	*237*	159.7
TW-13	06/24/15	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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
LeMay Property BRRTS# 03-16-560360

Well MW-1
PVC Elevation = 631.60 (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)
06/24/15	630.02	1.58	<0.7	**790**	<35.5	<55	**100**	<22	<115	176-221
09/24/15	630.70	0.90	*2.2*	**840**	12.6	<4.9	*78*	6.3	22.4	159.8
05/31/16	629.91	1.69	<1.6	**1110**	86	<4.9	**137**	15.7	*135*	*694.9*
08/30/16	630.14	1.46	<0.8	**910**	19.9	<4.9	**101**	10.5	44.6	370-376.6
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 = 631.92 (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)
06/24/15	630.33	1.59	<0.7	**1510**	*350*	<55	**148**	*298*	**1480**	**6840**
09/24/15	630.34	1.58	<0.7	**1270**	*510*	<24.5	**157**	<19.5	**1440**	*1834*
05/31/16	630.43	1.49	<1.6	**630**	*340*	<9.8	*85*	10.5	*431*	199
08/30/16	630.31	1.61	<0.8	**420**	*269*	<24.5	**150**	<19.5	*192-233.50*	110
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 = 630.25 (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)
06/24/15	626.64	3.61	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/24/15	626.37	3.88	0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/31/16	625.74	4.51	<1.6	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
08/30/16	625.92	4.33	<0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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
LeMay Property BRRTS# 03-16-560360

Well MW-4
PVC Elevation = 631.70 (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)
06/24/15	629.67	2.03	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/24/15	630.82	0.88	<0.7	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/31/16	629.62	2.08	<1.6	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
08/30/16	629.99	1.71	<0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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 = 630.60 (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)
06/24/15	623.65	6.95	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/24/15	624.39	6.21	0.9	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/31/16	624.29	6.31	<1.6	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
08/30/16	624.23	6.37	<0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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-6
PVC Elevation = 630.14 (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)
06/24/15	622.76	7.38	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/24/15	628.62	1.52	*5.5*	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
05/31/16	627.97	2.17	<1.6	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
08/30/16	628.72	1.42	<0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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
LeMay Property BRRTS# 03-16-560360

Well MW-7
PVC Elevation = 631.63 (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)
06/24/15	629.51	2.12	<0.7	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
09/24/15	630.15	1.48	0.9	*2.48*	<0.73	<0.49	<2.6	<0.39	4.03	<2.06
05/31/16	629.54	2.09	<1.6	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
08/30/16	630.01	1.62	<0.8	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
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
LeMay Property BRRTS# 03-16-560360

Well Sampling Conducted on:	06/24/15	06/24/15	06/24/15	06/24/15	06/24/15	06/24/15	06/24/15		
VOC's Well Name	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Lead, dissolved/ppb	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	**15**	*1.5*
Benzene/ppb	**790**	**1510**	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	**5**	*0.5*
Bromobenzene/ppb	< 24	< 24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	==	==
Bromodichloromethane/ppb	< 23	< 23	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**0.6**	*0.06*
Bromoform/ppb	< 23	< 23	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**4.4**	*0.44*
tert-Butylbenzene/ppb	< 55	< 55	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	==	==
sec-Butylbenzene/ppb	< 60	< 60	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	==	==
n-Butylbenzene/ppb	< 50	< 50	< 1	< 1	< 1	< 1	< 1	==	==
Carbon Tetrachloride/ppb	< 32.5	< 32.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**5**	*0.5*
Chlorobenzene/ppb	< 23	< 23	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	==	==
Chloroethane/ppb	< 32.5	< 32.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**400**	*80*
Chloroform/ppb	< 21.5	< 21.5	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	**6**	*0.6*
Chloromethane/ppb	< 95	< 95	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	**30**	*3*
2-Chlorotoluene/ppb	< 20	< 20	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	==	==
4-Chlorotoluene/ppb	< 31.5	< 31.5	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	==	==
1,2-Dibromo-3-chloropropane/ppb	< 70	< 70	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	**0.2**	*0.02*
Dibromochloromethane/ppb	< 22.5	< 22.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**60**	*6*
1,4-Dichlorobenzene/ppb	< 24.5	< 24.5	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	**75**	*15*
1,3-Dichlorobenzene/ppb	< 26	< 26	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	**600**	*120*
1,2-Dichlorobenzene/ppb	< 23	< 23	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**600**	*60*
Dichlorodifluoromethane/ppb	< 43.5	< 43.5	4.1	< 0.87	< 0.87	< 0.87	< 0.87	**1000**	*200*
1,2-Dichloroethane/ppb	< 27	< 27	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	**5**	*0.5*
1,1-Dichloroethane/ppb	< 55	< 55	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**850**	*85*
1,1-Dichloroethene/ppb	< 32.5	< 32.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**7**	*0.7*
cis-1,2-Dichloroethene/ppb	< 22.5	< 22.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 27	< 27	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	**100**	*20*
1,2-Dichloropropane/ppb	< 21.5	< 21.5	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	**5**	*0.5*
2,2-Dichloropropane/ppb	< 155	< 155	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	==	==
1,3-Dichloropropane/ppb	< 21	< 21	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
Di-isopropyl ether/ppb	< 22	< 22	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
EDB (1,2-Dibromoethane)/ppb	< 31.5	< 31.5	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	**0.05**	*0.005*
Ethylbenzene/ppb	< 35.5	*350*	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	**700**	*140*
Hexachlorobutadiene/ppb	< 110	< 110	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	==	==
Isopropylbenzene/ppb	< 41	< 41	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	==	==
p-Isopropyltoluene/ppb	< 55	< 55	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	==	==
Methylene chloride/ppb	< 65	< 65	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**5**	*0.5*
Methyl tert-butyl ether (MTBE)/ppb	< 55	< 55	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**60**	*12*
Naphthalene/ppb	**100 "J"**	**148 "J"**	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	**100**	*10*
n-Propylbenzene/ppb	< 38.5	48 "J"	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	==	==
1,1,2,2-Tetrachloroethane/ppb	< 26	< 26	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	**0.2**	*0.02*
1,1,1,2-Tetrachloroethane/ppb	< 24	< 24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 37	< 37	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	**5**	*0.5*
Toluene/ppb	< 22	*298*	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 85	< 85	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 135	< 135	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	==	==
1,1,1-Trichloroethane/ppb	< 42	< 42	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	**200**	*40*
1,1,2-Trichloroethane/ppb	< 24	< 24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 23.5	< 23.5	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	**5**	*0.5*
Trichlorofluoromethane/ppb	< 43.5	< 43.5	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	==	==
1,2,4-Trimethylbenzene/ppb	< 80	**1110**	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6		
1,3,5-Trimethylbenzene/ppb	< 75	**370**	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 8.5	< 8.5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	**0.2**	*0.02*
m&p-Xylene/ppb	176 "J"	**4800**	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2		
o-Xylene/ppb	< 45	**2040**	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	**Total Xylenes 2000**	*Total Xylenes 400*

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

A.6 Water Level Elevations
LeMay Property BRRTS# 03-16-560360
Superior, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	TW-13
Ground Surface (feet msl)	631.90	632.37	630.60	632.17	630.91	630.38	632.00	NM
PVC top (feet msl)	631.60	631.92	630.25	631.70	630.60	630.14	631.63	NM
Well Depth (feet)	14.00	14.00	14.00	14.00	14.00	14.00	14.00	13
Top of screen (feet msl)	627.90	628.37	626.60	628.17	626.91	626.38	628.00	NM
Bottom of screen (feet msl)	617.90	618.37	616.60	618.17	616.91	616.38	618.00	NM
Depth to Water From Top of PVC (feet)								
06/24/15	1.58	1.59	3.61	2.03	6.95	7.38	2.12	2.11
09/24/15	0.90	1.58	3.88	0.88	6.21	1.52	1.48	NM
05/31/16	1.69	1.49	4.51	2.08	6.31	2.17	2.09	NM
08/30/16	1.46	1.61	4.33	1.71	6.37	1.42	1.62	NM
Depth to Water From Ground Surface (feet)								
06/24/15	1.88	2.04	3.96	2.50	7.26	7.62	2.49	NM
09/24/15	1.20	2.03	4.23	1.35	6.52	1.76	1.85	NM
05/31/16	1.99	1.94	4.86	2.55	6.62	2.41	2.46	NM
08/30/16	1.76	2.06	4.68	2.18	6.68	1.66	1.99	NM
Groundwater Elevation (feet msl)								
06/24/15	630.02	630.33	626.64	629.67	623.65	622.76	629.51	NM
09/24/15	630.70	630.34	626.37	630.82	624.39	628.62	630.15	NM
05/31/16	629.91	630.43	625.74	629.62	624.29	627.97	629.54	NM
08/30/16	630.14	630.31	625.92	629.99	624.23	628.72	630.01	NM

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

A.7 Other
Groundwater NA Indicator Results
LeMay Property BRRTS# 03-16-560360

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)
06/24/15	3.09	7.19	-37	15.8	1102	0.274	11.5	0.02	**907**
09/24/15	3.12	7.89	160	16.0	1233	NS	NS	NS	NS
05/31/16	3.30	7.04	-109	11.1	487	NS	NS	NS	NS
08/30/16	1.20	6.87	-21	22.3	1468	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)
06/24/15	2.61	7.36	204	16.9	1458	<0.13	69.4	0.02	**408**
09/24/15	2.88	7.51	58	15.7	1011	NS	NS	NS	NS
05/31/16	3.03	6.98	-165	12.7	496	NS	NS	NS	NS
08/30/16	0.89	6.94	-99	23.1	1856	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)
06/24/15	3.64	8.24	110	17.5	452	1.09	57.3	0.03	17.1
09/24/15	3.27	8.56	191	15.7	1266	NS	NS	NS	NS
05/31/16	5.12	5.97	186	6.6	533	NS	NS	NS	NS
08/30/16	2.19	7.56	-48	16.5	954	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
LeMay Property BRRTS# 03-16-560360

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)
06/24/15	2.69	6.83	99	14.8	475	*5.58*	35.5	0.02	45.3
09/24/15	3.44	7.3	304	15.5	810	NS	NS	NS	NS
05/31/16	5.04	7.16	273	8.8	253	NS	NS	NS	NS
08/30/16	3.44	7.01	136	18.0	707	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)
06/24/15	3.86	7.9	168	11.3	1901	<0.13	435	0.05	*142*
09/24/15	4.17	7.28	208	15.3	1012	NS	NS	NS	NS
05/31/16	7.41	3.93	163	6.9	352	NS	NS	NS	NS
08/30/16	5.95	6.78	204	16.1	2736	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-6

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/24/15	2.87	7.1	122	11.7	754	<0.13	66.8	0.07	31.8
09/24/15	3.69	7.61	253	15.8	929	NS	NS	NS	NS
05/31/16	4.35	7.26	189	10.2	373	NS	NS	NS	NS
08/30/16	2.75	7.09	180	20.4	1388	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
LeMay Property BRRTS# 03-16-560360

Well MW-7

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
06/24/15	3.01	8.3	179	10.8	669	<0.13	50.7	<0.02	42.1
09/24/15	3.61	7.48	274	15.4	824	NS	NS	NS	NS
05/31/16	4.74	7.27	266	10.4	393	NS	NS	NS	NS
08/30/16	2.61	7.3	247	21.2	1265	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).

8.0 PHOTOS

Photos

Photo #1: Looking north.

Photo #2: Looking north.

Photo #3: Looking south/southwest.

Photo #4: Looking northeast.

APPENDIX A/ METHODS OF INVESTIGATION

Geoprobe Project

Geoprobe sampling was completed by Range Environmental Drilling of Hibbing, Minnesota, 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 Range Environmental Drilling of Hibbing, Wisconsin, under the supervision of METCO personnel. Using a truck or track-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 Model DL102 HNU Photo-ionization Meter 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 HNU probe was inserted through the Ziploc seal and the highest meter response recorded.

Throughout the field projects the HNU 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 Range Environmental Drilling 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.

Monitoring wells MW-2 and MW-7 were 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 18-90 gallons of groundwater was then removed with a small electrical submersible pump.

Locking watertight caps along with steel flush-mounted covers were installed with the wells for protection. Monitoring Well Construction Forms, Monitoring Well Development 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.

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 October 30, 2015, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of two drums of soil cuttings to 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

MIKE LEMAY
SPORTMANS CHOICE
721 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *23-Jun-14*

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101A
Sample ID METH BLANK
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/11/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/11/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/11/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		6/11/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101B
Sample ID G-1-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.4	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	8.49	mg/Kg	0.6	1.92	2	6010B		6/10/2014	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	15700	ug/kg	790	2500	100	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	48000	ug/kg	770	2500	100	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2500	ug/kg	810	2600	100	GRO95/8021		6/11/2014	CJR	1
Naphthalene	44000	ug/kg	2200	7000	100	GRO95/8021		6/11/2014	CJR	1
Toluene	15600	ug/kg	840	2700	100	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	360000	ug/kg	1000	3300	100	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	135000	ug/kg	930	3000	100	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	288000	ug/kg	1600	5000	100	GRO95/8021		6/11/2014	CJR	1
o-Xylene	93000	ug/kg	1000	3200	100	GRO95/8021		6/11/2014	CJR	1

Lab Code 5027101C
Sample ID G-1-2
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	8400	ug/kg	79	250	10	GRO95/8021		6/17/2014	CJR	1
Ethylbenzene	21900	ug/kg	77	250	10	GRO95/8021		6/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		6/17/2014	CJR	1
Naphthalene	7000	ug/kg	220	700	10	GRO95/8021		6/17/2014	CJR	1
Toluene	2590	ug/kg	84	270	10	GRO95/8021		6/17/2014	CJR	1
1,2,4-Trimethylbenzene	60000	ug/kg	100	330	10	GRO95/8021		6/17/2014	CJR	1
1,3,5-Trimethylbenzene	20500	ug/kg	93	300	10	GRO95/8021		6/17/2014	CJR	1
m&p-Xylene	110000	ug/kg	160	500	10	GRO95/8021		6/17/2014	CJR	1
o-Xylene	33000	ug/kg	100	320	10	GRO95/8021		6/17/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101D
Sample ID G-2-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	11.9	mg/Kg	0.6	1.92	2	6010B		6/10/2014	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	36000	ug/kg	395	1250	50	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	70000	ug/kg	385	1250	50	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		6/11/2014	CJR	1
Naphthalene	26700	ug/kg	1100	3500	50	GRO95/8021		6/11/2014	CJR	1
Toluene	53000	ug/kg	420	1350	50	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	156000	ug/kg	500	1650	50	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	52000	ug/kg	465	1500	50	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	308000	ug/kg	800	2500	50	GRO95/8021		6/11/2014	CJR	1
o-Xylene	104000	ug/kg	500	1600	50	GRO95/8021		6/11/2014	CJR	1

Lab Code 5027101E
Sample ID G-2-2
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.6	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/17/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/17/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/17/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/17/2014	CJR	1
1,2,4-Trimethylbenzene	67	ug/kg	10	33	1	GRO95/8021		6/17/2014	CJR	1
1,3,5-Trimethylbenzene	29.6 "J"	ug/kg	9.3	30	1	GRO95/8021		6/17/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/17/2014	CJR	1
o-Xylene	35	ug/kg	10	32	1	GRO95/8021		6/17/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101F
Sample ID G-2-3
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	75.1	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	29.2	ug/kg	7.9	25	1	GRO95/8021		6/17/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/17/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/17/2014	CJR	1
Toluene	34	ug/kg	8.4	27	1	GRO95/8021		6/17/2014	CJR	1
1,2,4-Trimethylbenzene	106	ug/kg	10	33	1	GRO95/8021		6/17/2014	CJR	1
1,3,5-Trimethylbenzene	42	ug/kg	9.3	30	1	GRO95/8021		6/17/2014	CJR	1
m&p-Xylene	127	ug/kg	16	50	1	GRO95/8021		6/17/2014	CJR	1
o-Xylene	56	ug/kg	10	32	1	GRO95/8021		6/17/2014	CJR	1

Lab Code 5027101G
Sample ID G-3-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.6	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	< 1.5	mg/Kg	1.5	4.8	5	6010B		6/10/2014	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	31.4	ug/kg	7.9	25	1	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	155	ug/kg	7.7	25	1	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/11/2014	CJR	1
Naphthalene	195	ug/kg	22	70	1	GRO95/8021		6/11/2014	CJR	1
Toluene	40	ug/kg	8.4	27	1	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	580	ug/kg	10	33	1	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	215	ug/kg	9.3	30	1	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	380	ug/kg	16	50	1	GRO95/8021		6/11/2014	CJR	1
o-Xylene	91	ug/kg	10	32	1	GRO95/8021		6/11/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101H
Sample ID G-4-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.4	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	13.1	mg/Kg	1.5	4.8	5	6010B		6/10/2014	CWT	1 49
Organic										
VOC's										
Benzene	10900	ug/kg	920	2900	100	8260B		6/11/2014	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		6/11/2014	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		6/11/2014	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		6/11/2014	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		6/11/2014	CJR	1
sec-Butylbenzene	< 4100	ug/kg	4100	13200	100	8260B		6/11/2014	CJR	1
n-Butylbenzene	15900	ug/kg	2600	8200	100	8260B		6/11/2014	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		6/11/2014	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		6/11/2014	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		6/11/2014	CJR	1
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		6/11/2014	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		6/11/2014	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		6/11/2014	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		6/11/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		6/11/2014	CJR	1
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		6/11/2014	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		6/11/2014	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		6/11/2014	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		6/11/2014	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		6/11/2014	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		6/11/2014	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		6/11/2014	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		6/11/2014	CJR	1
cis-1,2-Dichloroethene	< 2400	ug/kg	2400	7700	100	8260B		6/11/2014	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		6/11/2014	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		6/11/2014	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		6/11/2014	CJR	4 7
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		6/11/2014	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		6/11/2014	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		6/11/2014	CJR	1
Ethylbenzene	36000	ug/kg	1000	3300	100	8260B		6/11/2014	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		6/11/2014	CJR	1
Isopropylbenzene	6500 "J"	ug/kg	2500	8000	100	8260B		6/11/2014	CJR	1
p-Isopropyltoluene	< 3100	ug/kg	3100	9800	100	8260B		6/11/2014	CJR	1
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		6/11/2014	CJR	7
Naphthalene	14100 "J"	ug/kg	11400	36300	100	8260B		6/11/2014	CJR	1
n-Propylbenzene	25300	ug/kg	2400	7500	100	8260B		6/11/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		6/11/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		6/11/2014	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		6/11/2014	CJR	1
Toluene	3700 "J"	ug/kg	2000	6500	100	8260B		6/11/2014	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		6/11/2014	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		6/11/2014	CJR	1
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		6/11/2014	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		6/11/2014	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		6/11/2014	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	145000	ug/kg	2600	8100	100	8260B		6/11/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101H
Sample ID G-4-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	41000	ug/kg	2600	8400	100	8260B		6/11/2014	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		6/11/2014	CJR	1
m&p-Xylene	200000	ug/kg	6800	21600	100	8260B		6/11/2014	CJR	1
o-Xylene	60000	ug/kg	3100	9800	100	8260B		6/11/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	Rec %			100	8260B		6/11/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			100	8260B		6/11/2014	CJR	1
SUR - Dibromofluoromethane	105	Rec %			100	8260B		6/11/2014	CJR	1
SUR - Toluene-d8	82	Rec %			100	8260B		6/11/2014	CJR	1

Lab Code 5027101I
Sample ID G-4-2
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	74.5	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	3500	ug/kg	7.9	25	1	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	2310	ug/kg	7.7	25	1	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/11/2014	CJR	1
Naphthalene	1340	ug/kg	22	70	1	GRO95/8021		6/11/2014	CJR	1
Toluene	710	ug/kg	8.4	27	1	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	7200	ug/kg	10	33	1	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	2320	ug/kg	9.3	30	1	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	8100	ug/kg	16	50	1	GRO95/8021		6/11/2014	CJR	1
o-Xylene	1290	ug/kg	10	32	1	GRO95/8021		6/11/2014	CJR	1

Lab Code 5027101J
Sample ID G-5-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.1	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	3.20	mg/Kg	0.6	1.92	2	6010B		6/10/2014	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/17/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/17/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/17/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/17/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/17/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		6/17/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		6/17/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/17/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		6/17/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101K
Sample ID G-6-1
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.7	%			1	5021		6/9/2014	RKM	1
Inorganic										
Metals										
Lead, Total	494	mg/Kg	0.6	1.92	2	6010B		6/10/2014	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	162000	ug/kg	395	1250	50	GRO95/8021		6/18/2014	CJR	1
Ethylbenzene	108000	ug/kg	385	1250	50	GRO95/8021		6/18/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		6/18/2014	CJR	1
Naphthalene	70000	ug/kg	1100	3500	50	GRO95/8021		6/18/2014	CJR	1
Toluene	16300	ug/kg	420	1350	50	GRO95/8021		6/18/2014	CJR	1
1,2,4-Trimethylbenzene	480000	ug/kg	500	1650	50	GRO95/8021		6/18/2014	CJR	1
1,3,5-Trimethylbenzene	176000	ug/kg	465	1500	50	GRO95/8021		6/18/2014	CJR	1
m&p-Xylene	830000	ug/kg	800	2500	50	GRO95/8021		6/18/2014	CJR	1
o-Xylene	21500	ug/kg	500	1600	50	GRO95/8021		6/18/2014	CJR	1

Lab Code 5027101L
Sample ID G-7-2
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	73.1	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/11/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/11/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/11/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		6/11/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101M
Sample ID G-8-2
Sample Matrix Soil
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	75.9	%			1	5021		6/9/2014	RKM	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/11/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/11/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/11/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/11/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/11/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		6/11/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		6/11/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/11/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		6/11/2014	CJR	1

Lab Code 5027101N
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		6/12/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		6/12/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		6/12/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		6/12/2014	CJR	1

Lab Code 5027101O
Sample ID G-1-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3500	ug/l	13.5	42.5	50	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	2580	ug/l	41	130	50	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		6/12/2014	CJR	1
Naphthalene	870	ug/l	60	190	50	GRO95/8021		6/12/2014	CJR	1
Toluene	2350	ug/l	40	130	50	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	4700	ug/l	41.5	130	50	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	1420	ug/l	43	135	50	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	14200	ug/l	80	260	50	GRO95/8021		6/12/2014	CJR	1
o-Xylene	4400	ug/l	40.5	130	50	GRO95/8021		6/12/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101P
Sample ID G-2-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3400	ug/l	13.5	42.5	50	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	2260	ug/l	41	130	50	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		6/12/2014	CJR	1
Naphthalene	770	ug/l	60	190	50	GRO95/8021		6/12/2014	CJR	1
Toluene	7300	ug/l	40	130	50	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	4000	ug/l	41.5	130	50	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	1190	ug/l	43	135	50	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	14800	ug/l	80	260	50	GRO95/8021		6/12/2014	CJR	1
o-Xylene	6400	ug/l	40.5	130	50	GRO95/8021		6/12/2014	CJR	1

Lab Code 5027101Q
Sample ID G-3-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	173	ug/l	13.5	42.5	50	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	1190	ug/l	41	130	50	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		6/12/2014	CJR	1
Naphthalene	350	ug/l	60	190	50	GRO95/8021		6/12/2014	CJR	1
Toluene	380	ug/l	40	130	50	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	2480	ug/l	41.5	130	50	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	800	ug/l	43	135	50	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	4900	ug/l	80	260	50	GRO95/8021		6/12/2014	CJR	1
o-Xylene	1530	ug/l	40.5	130	50	GRO95/8021		6/12/2014	CJR	1

Lab Code 5027101R
Sample ID G-4-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1790	ug/l	2.7	8.5	10	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	710	ug/l	8.2	26	10	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		6/12/2014	CJR	1
Naphthalene	680	ug/l	12	38	10	GRO95/8021		6/12/2014	CJR	1
Toluene	470	ug/l	8	26	10	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	3500	ug/l	8.3	26	10	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	1030	ug/l	8.6	27	10	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	7200	ug/l	16	52	10	GRO95/8021		6/12/2014	CJR	1
o-Xylene	3700	ug/l	8.1	26	10	GRO95/8021		6/12/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101S
Sample ID G-5-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	720	ug/l	2.7	8.5	10	GRO95/8021		6/12/2014	CJR	1
Ethylbenzene	9.3 "J"	ug/l	8.2	26	10	GRO95/8021		6/12/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		6/12/2014	CJR	1
Naphthalene	70	ug/l	12	38	10	GRO95/8021		6/12/2014	CJR	1
Toluene	< 8	ug/l	8	26	10	GRO95/8021		6/12/2014	CJR	1
1,2,4-Trimethylbenzene	40	ug/l	8.3	26	10	GRO95/8021		6/12/2014	CJR	1
1,3,5-Trimethylbenzene	35	ug/l	8.6	27	10	GRO95/8021		6/12/2014	CJR	1
m&p-Xylene	76	ug/l	16	52	10	GRO95/8021		6/12/2014	CJR	1
o-Xylene	26 "J"	ug/l	8.1	26	10	GRO95/8021		6/12/2014	CJR	1

Lab Code 5027101T
Sample ID G-6-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5000	ug/l	13.5	42.5	50	GRO95/8021		6/13/2014	CJR	1
Ethylbenzene	140	ug/l	41	130	50	GRO95/8021		6/13/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		6/13/2014	CJR	1
Naphthalene	61 "J"	ug/l	60	190	50	GRO95/8021		6/13/2014	CJR	1
Toluene	78 "J"	ug/l	40	130	50	GRO95/8021		6/13/2014	CJR	1
1,2,4-Trimethylbenzene	470	ug/l	41.5	130	50	GRO95/8021		6/13/2014	CJR	1
1,3,5-Trimethylbenzene	164	ug/l	43	135	50	GRO95/8021		6/13/2014	CJR	1
m&p-Xylene	2820	ug/l	80	260	50	GRO95/8021		6/13/2014	CJR	1
o-Xylene	61 "J"	ug/l	40.5	130	50	GRO95/8021		6/13/2014	CJR	1

Lab Code 5027101U
Sample ID G-9-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.49 "J"	ug/l	0.27	0.85	1	GRO95/8021		6/13/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		6/13/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		6/13/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		6/13/2014	CJR	1
Toluene	1.39 "J"	ug/l	0.8	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,2,4-Trimethylbenzene	4.2	ug/l	0.83	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,3,5-Trimethylbenzene	1.89 "J"	ug/l	0.86	2.7	1	GRO95/8021		6/13/2014	CJR	1
m&p-Xylene	3.6 "J"	ug/l	1.6	5.2	1	GRO95/8021		6/13/2014	CJR	1
o-Xylene	4.5	ug/l	0.81	2.6	1	GRO95/8021		6/13/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

Lab Code 5027101V
Sample ID G-10-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		6/13/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		6/13/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		6/13/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		6/13/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		6/13/2014	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		6/13/2014	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		6/13/2014	CJR	1

Lab Code 5027101W
Sample ID G-11-W
Sample Matrix Water
Sample Date 6/2/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.59 "J"	ug/l	0.27	0.85	1	GRO95/8021		6/16/2014	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		6/16/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		6/16/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		6/16/2014	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		6/16/2014	CJR	1
1,2,4-Trimethylbenzene	4.0	ug/l	0.83	2.6	1	GRO95/8021		6/16/2014	CJR	1
1,3,5-Trimethylbenzene	1.8 "J"	ug/l	0.86	2.7	1	GRO95/8021		6/16/2014	CJR	1
m&p-Xylene	2.03 "J"	ug/l	1.6	5.2	1	GRO95/8021		6/16/2014	CJR	1
o-Xylene	1.41 "J"	ug/l	0.81	2.6	1	GRO95/8021		6/16/2014	CJR	1

Lab Code 5027101X
Sample ID TW-8
Sample Matrix Water
Sample Date 6/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.85	1	GRO95/8021		6/13/2014	CJR	1
Ethylbenzene	1.34 "J"	ug/l	0.82	2.6	1	GRO95/8021		6/13/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		6/13/2014	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		6/13/2014	CJR	1
Toluene	260	ug/l	0.8	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,2,4-Trimethylbenzene	1.13 "J"	ug/l	0.83	2.6	1	GRO95/8021		6/13/2014	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		6/13/2014	CJR	1
m&p-Xylene	4.8 "J"	ug/l	1.6	5.2	1	GRO95/8021		6/13/2014	CJR	1
o-Xylene	2.09 "J"	ug/l	0.81	2.6	1	GRO95/8021		6/13/2014	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E27101
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
7	The LCS not within established limits.
49	Sample diluted to compensate for matrix interference.

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature *Michael Ricker*

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # Nº 255
Page 1 of 3

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) E Dan

Project (Name / Location): LeMay Property

Reports To: Mike LeMay	Invoice To: Mike LeMay
Company Sportsmans Choice	Company c/o METCO
Address 721 Belknap St	Address 709 Gillette St, Ste 3
City State Zip Superior, WI 54880	City State Zip La Crosse WI 54603
Phone (715) 394-6077	Phone (608) 781-8879
FAX	FAX 8893

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)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
SO7601 A	Meth Blank	6/2/14					1		MEOH								X						
B	G-1-1		11:05		X		3	S	/None			X					X						
C	G-1-2		11:10				2										X						
D	G-2-1		11:55				3		/None			X					X						
E	G-2-2		12:10				2										X						
F	G-2-3		12:15				2										X						
G	G-3-1		12:45				3		/None			X					X						
H	G-4-1		1:25				3		/None			X									X		
I	G-4-2		1:30				2										X						
J	G-5-1		2:25				3		/None			X					X						

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

Lab to send copy of report to METCO
Vac Rates
Agent Status

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E Dan	8:30AM	6/5/14			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/6/14

CHAIN OF STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # № 255
Page 2 of 3

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): LeMay Property
Reports To: See Page 1 Invoice To:

Company	Company
Address	Address
City State Zip	City State Zip
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	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
SOIL Hole	G-6-1	6/4/14	2:55		X		3	S	MEOH/Nuc			X					X						
L	G-7-2		3:30		↓		2	↓	↓								X						
M	G-8-2		4:40				2										X						
N	Trip Blank						1		HCl								X						
O	G-1-W		11:20		X	N	3	GW									X						
P	G-2-W		12:30														X						
Q	G-3-W		1:05														X						
R	G-4-W		1:40														X						
S	G-5-W		2:35														X						
T	G-6-W	↓	3:00		↓	↓	↓	↓	↓								X						

Analysis Requested | Other Analysis

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

Sample Integrity - To be completed by receiving lab.
Method of Shipment:
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
	8:30 AM	6/5/14			

Received in Laboratory By: Time: 8:00 Date: 6/6/14

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # № 255
Page 3 of 3

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) E Dow
Project (Name / Location): LeMay Property
Reports To: See Page 1 | Invoice To: →
Company | Company
Address | Address
City State Zip | City State Zip
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
507410 U	G-9-W	6/2/14	5:25		X	N	3	GW	HCl
V	G-10-W	↓	5:55		↓	↓	↓	↓	↓
W	G-11-W	↓	6:20		↓	↓	↓	↓	↓
X	TW-8	6/4/14	9:90		↓	↓	↓	↓	↓

Analysis Requested | **Other Analysis**

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

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

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
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
E Dow	8:30 AM	6/5/14			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/6/14

Synergy Environmental Lab,

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

MIKE LEMAY
SPORTMANS CHOICE
721 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *05-May-15*

Project Name SPORTSMANS CHOICE **Invoice #** E28816
Project #

Lab Code 5028816A
Sample ID METH BLANK
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/29/2015	CJR	
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/29/2015	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/29/2015	CJR	
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		4/29/2015	CJR	
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/29/2015	CJR	
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/29/2015	CJR	
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/29/2015	CJR	
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/29/2015	CJR	
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/29/2015	CJR	

Lab Code 5028816B
Sample ID G-12-1
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.8	%			1	5021		4/23/2015	LPA	
Organic										
PVOC + Naphthalene										
Benzene	3.2	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	CJR	
Ethylbenzene	0.305	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	CJR	
Naphthalene	0.82	mg/kg	0.0094	0.03	1	GRO95/8021		4/30/2015	CJR	
Toluene	1.06	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	CJR	
1,2,4-Trimethylbenzene	1.27	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	CJR	
1,3,5-Trimethylbenzene	0.37	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	CJR	
m&p-Xylene	1.61	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	CJR	
o-Xylene	0.66	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	CJR	

Project Name SPORTSMANS CHOICE **Invoice #** E28816
Project #

Lab Code 5028816C
Sample ID G-12-2
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	72.9	%			1	5021		4/23/2015	LPA	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		4/30/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	CJR	1

Lab Code 5028816D
Sample ID G-13-1
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	75.0	%			1	5021		4/23/2015	LPA	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		4/30/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	CJR	1

Project Name SPORTSMANS CHOICE **Invoice #** E28816
Project #

Lab Code 5028816E
Sample ID G-13-2
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	72.6	%			1	5021		4/24/2015	LPA	
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		4/30/2015	CJR	
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		4/30/2015	CJR	
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		4/30/2015	CJR	
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		4/30/2015	CJR	
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		4/30/2015	CJR	
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		4/30/2015	CJR	
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		4/30/2015	CJR	
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		4/30/2015	CJR	
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		4/30/2015	CJR	

Lab Code 5028816F
Sample ID MW-1-1
Sample Matrix Soil
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.0	%			1	5021		4/24/2015	LPA	
Inorganic										
Metals										
TCLP Lead	< 0.45	mg/l	0.45		1	6010B		5/2/2015	ESC	
Organic										
PVOC + Naphthalene										
Benzene	380	mg/kg	1.4	4.6	100	GRO95/8021		5/2/2015	LPA	
Ethylbenzene	1200	mg/kg	1.4	4.5	100	GRO95/8021		5/2/2015	LPA	
Methyl tert-butyl ether (MTBE)	< 2.5	mg/kg	1.3	4.1	100	GRO95/8021		5/2/2015	LPA	
Naphthalene	330	mg/kg	0.94	3	100	GRO95/8021		5/2/2015	LPA	
Toluene	1470	mg/kg	1.5	4.8	100	GRO95/8021		5/2/2015	LPA	
1,2,4-Trimethylbenzene	2580	mg/kg	1.1	3.6	100	GRO95/8021		5/2/2015	LPA	
1,3,5-Trimethylbenzene	820	mg/kg	1.2	3.8	100	GRO95/8021		5/2/2015	LPA	
m&p-Xylene	5000	mg/kg	2.3	7.4	100	GRO95/8021		5/2/2015	LPA	
o-Xylene	1780	mg/kg	2.4	7.8	100	GRO95/8021		5/2/2015	LPA	
TCLP										
TCLP Benzene	0.071	mg/l	0.05		1	8260B		5/3/2015	ESC	

Project Name SPORTSMANS CHOICE **Invoice #** E28816
Project #

Lab Code 5028816G
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/27/2015	LPA	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/27/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/27/2015	LPA	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/27/2015	LPA	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/27/2015	LPA	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/27/2015	LPA	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/27/2015	LPA	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/27/2015	LPA	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/27/2015	LPA	1

Lab Code 5028816H
Sample ID G-12-W
Sample Matrix Water
Sample Date 4/20/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	275	ug/l	0.46	1.5	1	GRO95/8021		4/27/2015	LPA	1
Ethylbenzene	40	ug/l	0.73	2.3	1	GRO95/8021		4/27/2015	LPA	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/27/2015	LPA	1
Naphthalene	4.7 "J"	ug/l	2.6	8.3	1	GRO95/8021		4/27/2015	LPA	1
Toluene	19.6	ug/l	0.39	1.2	1	GRO95/8021		4/27/2015	LPA	1
1,2,4-Trimethylbenzene	157	ug/l	0.68	2.2	1	GRO95/8021		4/27/2015	LPA	1
1,3,5-Trimethylbenzene	80	ug/l	0.83	2.6	1	GRO95/8021		4/27/2015	LPA	1
m&p-Xylene	151	ug/l	1.4	4.4	1	GRO95/8021		4/27/2015	LPA	1
o-Xylene	8.7	ug/l	0.66	2.1	1	GRO95/8021		4/27/2015	LPA	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 # No 316

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: E. [illegible]

Project (Name / Location): LeMay Property

Reports To: Mike LeMay	Invoice To: Mike LeMay
Company: Sportsmens Choice	Company: c/o METCO
Address: 721 Belknap St	Address: 709 Gillette St, Ste 3
City State Zip: Superior, WI 54880	City State Zip: La Crosse, WI 54603
Phone: (715) 394-6077	Phone: (608) 781-9579
FAX	FAX 9593

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	TCLP-Lead	TCLP-Benzene					PID/ FID
502816A	Meth Blank	4/21/15					1		None									X											
B	G-12-1		10:40		X		2	S										X											
C	G-12-2		10:50															X											
D	G-13-1		11:15															X											
E	G-13-2		11:20															X											
F	MW-1-1	4/21/15	10:10				6		/None									X						X	X				
G	Trip Blank	4/14/15					1		HCl									X											
H	G-12-W	4/21/15	10:35		X	N	3	GW	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

WAC Rules

Agency Standards

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Driven

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
E [illegible]	6:45PM	4/21/15			

Received in Laboratory By: [illegible] Time: 8:00 Date: 4/23/15

Synergy Environmental Lab,

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

MIKE LEMAY
SPORTMANS CHOICE
721 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *10-Jul-15*

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168A
Sample ID MW-5
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.05 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	142	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		7/1/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		7/1/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/1/2015	CJR	1
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		7/1/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		7/1/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		7/1/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		7/1/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		7/1/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		7/1/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		7/1/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		7/1/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		7/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168A
Sample ID MW-5
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		7/1/2015	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/1/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		7/1/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		7/1/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		7/1/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		7/1/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		7/1/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		7/1/2015	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		7/1/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		7/1/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		7/1/2015	CJR	I
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		7/1/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		7/1/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		7/1/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		7/1/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/1/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		7/1/2015	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		7/1/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		7/1/2015	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		7/1/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		7/1/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/1/2015	CJR	I
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		7/1/2015	CJR	I
SUR - Dibromofluoromethane	97	REC %			1	8260B		7/1/2015	CJR	I
SUR - Toluene-d8	99	REC %			1	8260B		7/1/2015	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.13	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	I
Sulfate, Unfiltered	435	mg/l	17	53	10	300.0		7/7/2015	CWT	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168B
Sample ID MW-3
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.03 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	17.1	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		7/1/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		7/1/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/1/2015	CJR	1
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		7/1/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		7/1/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		7/1/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		7/1/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		7/1/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		7/1/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		7/1/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Dichlorodifluoromethane	4.1	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		7/1/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		7/1/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		7/1/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/1/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		7/1/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		7/1/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		7/1/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		7/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		7/1/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		7/1/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		7/1/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		7/1/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		7/1/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		7/1/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		7/1/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		7/1/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		7/1/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/1/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		7/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		7/1/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		7/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168B
Sample ID MW-3
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		7/1/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		7/1/2015	CJR	I
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		7/1/2015	CJR	I
SUR - Dibromofluoromethane	103	REC %			1	8260B		7/1/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		7/1/2015	CJR	I
SUR - Toluene-d8	100	REC %			1	8260B		7/1/2015	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	1.09	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	I
Sulfate, Unfiltered	57.3	mg/l	17	53	10	300.0		7/7/2015	CWT	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168C
Sample ID MW-7
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	I
Iron, Dissolved	< 0.02	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	I
Manganese, Dissolved	42.1	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	I
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		7/1/2015	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		7/1/2015	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/1/2015	CJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		7/1/2015	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		7/1/2015	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		7/1/2015	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		7/1/2015	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		7/1/2015	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		7/1/2015	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		7/1/2015	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		7/1/2015	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		7/1/2015	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		7/1/2015	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		7/1/2015	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/1/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		7/1/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		7/1/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		7/1/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		7/1/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		7/1/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		7/1/2015	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		7/1/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		7/1/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		7/1/2015	CJR	I
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		7/1/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		7/1/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		7/1/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		7/1/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/1/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		7/1/2015	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		7/1/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		7/1/2015	CJR	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168C
Sample ID MW-7
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		7/1/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		7/1/2015	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		7/1/2015	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		7/1/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/1/2015	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		7/1/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.13	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	1
Sulfate, Unfiltered	50.7 "J"	mg/l	17	53	10	300.0		7/7/2015	CWT	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168D
Sample ID MW-6
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.07 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	31.8	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		7/1/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		7/1/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/1/2015	CJR	1
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		7/1/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		7/1/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		7/1/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		7/1/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		7/1/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		7/1/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		7/1/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		7/1/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		7/1/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		7/1/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/1/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		7/1/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		7/1/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		7/1/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		7/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		7/1/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		7/1/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		7/1/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		7/1/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		7/1/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		7/1/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		7/1/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		7/1/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		7/1/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/1/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		7/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		7/1/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		7/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168D
Sample ID MW-6
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		7/1/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		7/1/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		7/1/2015	CJR	I
SUR - Toluene-d8	101	REC %			1	8260B		7/1/2015	CJR	I
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		7/1/2015	CJR	I
SUR - Dibromofluoromethane	100	REC %			1	8260B		7/1/2015	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.13	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	I
Sulfate, Unfiltered	66.8	mg/l	17	53	10	300 0		7/7/2015	CWT	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168E
Sample ID MW-4
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.02 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	45.3	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		7/1/2015	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		7/1/2015	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		7/1/2015	CJR	1
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		7/1/2015	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		7/1/2015	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		7/1/2015	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		7/1/2015	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		7/1/2015	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		7/1/2015	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		7/1/2015	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		7/1/2015	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		7/1/2015	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		7/1/2015	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		7/1/2015	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		7/1/2015	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		7/1/2015	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		7/1/2015	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		7/1/2015	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		7/1/2015	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		7/1/2015	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		7/1/2015	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		7/1/2015	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		7/1/2015	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		7/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		7/1/2015	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		7/1/2015	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		7/1/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		7/1/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		7/1/2015	CJR	1
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		7/1/2015	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		7/1/2015	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		7/1/2015	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		7/1/2015	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		7/1/2015	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		7/1/2015	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		7/1/2015	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		7/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		7/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		7/1/2015	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		7/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168E
Sample ID MW-4
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		7/1/2015	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		7/1/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		7/1/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B		7/1/2015	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		7/1/2015	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		7/1/2015	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	5.58	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	1
Sulfate, Unfiltered	35.5	mg/l	8.5	26.5	5	300.0		7/8/2015	CWT	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168F
Sample ID MW-1
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.02 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	907	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	790	ug/l	22	70	50	8260B		6/30/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		6/30/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		6/30/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		6/30/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		6/30/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		6/30/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		6/30/2015	CJR	1
Carbon Tetrachloride	< 32.5	ug/l	32.5	105	50	8260B		6/30/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		6/30/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		6/30/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		6/30/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		6/30/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		6/30/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		6/30/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		6/30/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		6/30/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		6/30/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		6/30/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		6/30/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		6/30/2015	CJR	1
1,2-Dichloroethane	< 27	ug/l	27	85	50	8260B		6/30/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		6/30/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		6/30/2015	CJR	1
cis-1,2-Dichloroethene	< 22.5	ug/l	22.5	70	50	8260B		6/30/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		6/30/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		6/30/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		6/30/2015	CJR	48
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		6/30/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		6/30/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		6/30/2015	CJR	1
Ethylbenzene	< 35.5	ug/l	35.5	115	50	8260B		6/30/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		6/30/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		6/30/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		6/30/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		6/30/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		6/30/2015	CJR	1
Naphthalene	100 "J"	ug/l	80	260	50	8260B		6/30/2015	CJR	1
n-Propylbenzene	< 38.5	ug/l	38.5	120	50	8260B		6/30/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		6/30/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		6/30/2015	CJR	1
Tetrachloroethene	< 37	ug/l	37	120	50	8260B		6/30/2015	CJR	1
Toluene	< 22	ug/l	22	70	50	8260B		6/30/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		6/30/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		6/30/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		6/30/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		6/30/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		6/30/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		6/30/2015	CJR	1
1,2,4-Trimethylbenzene	< 80	ug/l	80	250	50	8260B		6/30/2015	CJR	1
1,3,5-Trimethylbenzene	< 75	ug/l	75	240	50	8260B		6/30/2015	CJR	1
Vinyl Chloride	< 8.5	ug/l	8.5	27	50	8260B		6/30/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168F
Sample ID MW-1
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	176 "J"	ug/l	110	345	50	8260B		6/30/2015	CJR	I
o-Xylene	< 45	ug/l	45	145	50	8260B		6/30/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	98	REC %			50	8260B		6/30/2015	CJR	I
SUR - 4-Bromofluorobenzene	97	REC %			50	8260B		6/30/2015	CJR	I
SUR - Dibromofluoromethane	103	REC %			50	8260B		6/30/2015	CJR	I
SUR - Toluene-d8	95	REC %			50	8260B		6/30/2015	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	0.274 "J"	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	I
Sulfate, Unfiltered	11.5 "J"	mg/l	8.5	26.5	5	300.0		7/8/2015	CWT	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168G
Sample ID MW-2
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		6/30/2015	CWT	1
Iron, Dissolved	0.02 "J"	mg/l	0.02	0.7	1	200.7		6/29/2015	CWT	1
Manganese, Dissolved	408	ug/L	4.5	14.4	1	200.7		6/29/2015	CWT	1
Organic										
VOC's										
Benzene	1510	ug/l	22	70	50	8260B		7/1/2015	CJR	1
Bromobenzene	< 24	ug/l	24	75	50	8260B		7/1/2015	CJR	1
Bromodichloromethane	< 23	ug/l	23	75	50	8260B		7/1/2015	CJR	1
Bromoform	< 23	ug/l	23	75	50	8260B		7/1/2015	CJR	1
tert-Butylbenzene	< 55	ug/l	55	170	50	8260B		7/1/2015	CJR	1
sec-Butylbenzene	< 60	ug/l	60	190	50	8260B		7/1/2015	CJR	1
n-Butylbenzene	< 50	ug/l	50	165	50	8260B		7/1/2015	CJR	1
Carbon Tetrachloride	< 32.5	ug/l	32.5	105	50	8260B		7/1/2015	CJR	1
Chlorobenzene	< 23	ug/l	23	70	50	8260B		7/1/2015	CJR	1
Chloroethane	< 32.5	ug/l	32.5	105	50	8260B		7/1/2015	CJR	1
Chloroform	< 21.5	ug/l	21.5	70	50	8260B		7/1/2015	CJR	1
Chloromethane	< 95	ug/l	95	300	50	8260B		7/1/2015	CJR	1
2-Chlorotoluene	< 20	ug/l	20	65	50	8260B		7/1/2015	CJR	1
4-Chlorotoluene	< 31.5	ug/l	31.5	100	50	8260B		7/1/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 70	ug/l	70	225	50	8260B		7/1/2015	CJR	1
Dibromochloromethane	< 22.5	ug/l	22.5	70	50	8260B		7/1/2015	CJR	1
1,4-Dichlorobenzene	< 24.5	ug/l	24.5	80	50	8260B		7/1/2015	CJR	1
1,3-Dichlorobenzene	< 26	ug/l	26	80	50	8260B		7/1/2015	CJR	1
1,2-Dichlorobenzene	< 23	ug/l	23	75	50	8260B		7/1/2015	CJR	1
Dichlorodifluoromethane	< 43.5	ug/l	43.5	140	50	8260B		7/1/2015	CJR	1
1,2-Dichloroethane	< 27	ug/l	27	85	50	8260B		7/1/2015	CJR	1
1,1-Dichloroethane	< 55	ug/l	55	180	50	8260B		7/1/2015	CJR	1
1,1-Dichloroethene	< 32.5	ug/l	32.5	105	50	8260B		7/1/2015	CJR	1
cis-1,2-Dichloroethene	< 22.5	ug/l	22.5	70	50	8260B		7/1/2015	CJR	1
trans-1,2-Dichloroethene	< 27	ug/l	27	85	50	8260B		7/1/2015	CJR	1
1,2-Dichloropropane	< 21.5	ug/l	21.5	68.5	50	8260B		7/1/2015	CJR	1
2,2-Dichloropropane	< 155	ug/l	155	490	50	8260B		7/1/2015	CJR	4 8
1,3-Dichloropropane	< 21	ug/l	21	65	50	8260B		7/1/2015	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		7/1/2015	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		7/1/2015	CJR	1
Ethylbenzene	350	ug/l	35.5	115	50	8260B		7/1/2015	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	355	50	8260B		7/1/2015	CJR	1
Isopropylbenzene	< 41	ug/l	41	130	50	8260B		7/1/2015	CJR	1
p-Isopropyltoluene	< 55	ug/l	55	175	50	8260B		7/1/2015	CJR	1
Methylene chloride	< 65	ug/l	65	210	50	8260B		7/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		7/1/2015	CJR	1
Naphthalene	148 "J"	ug/l	80	260	50	8260B		7/1/2015	CJR	1
n-Propylbenzene	48 "J"	ug/l	38.5	120	50	8260B		7/1/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 26	ug/l	26	85	50	8260B		7/1/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 24	ug/l	24	75	50	8260B		7/1/2015	CJR	1
Tetrachloroethene	< 37	ug/l	37	120	50	8260B		7/1/2015	CJR	1
Toluene	298	ug/l	22	70	50	8260B		7/1/2015	CJR	1
1,2,4-Trichlorobenzene	< 85	ug/l	85	280	50	8260B		7/1/2015	CJR	1
1,2,3-Trichlorobenzene	< 135	ug/l	135	430	50	8260B		7/1/2015	CJR	1
1,1,1-Trichloroethane	< 42	ug/l	42	135	50	8260B		7/1/2015	CJR	1
1,1,2-Trichloroethane	< 24	ug/l	24	76	50	8260B		7/1/2015	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		7/1/2015	CJR	1
Trichlorofluoromethane	< 43.5	ug/l	43.5	140	50	8260B		7/1/2015	CJR	1
1,2,4-Trimethylbenzene	1110	ug/l	80	250	50	8260B		7/1/2015	CJR	1
1,3,5-Trimethylbenzene	370	ug/l	75	240	50	8260B		7/1/2015	CJR	1
Vinyl Chloride	< 8.5	ug/l	8.5	27	50	8260B		7/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168G
Sample ID MW-2
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	4800	ug/l	110	345	50	8260B		7/1/2015	CJR	I
o-Xylene	2040	ug/l	45	145	50	8260B		7/1/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	101	REC %			50	8260B		7/1/2015	CJR	I
SUR - 4-Bromofluorobenzene	102	REC %			50	8260B		7/1/2015	CJR	I
SUR - Dibromofluoromethane	99	REC %			50	8260B		7/1/2015	CJR	I
SUR - Toluene-d8	92	REC %			50	8260B		7/1/2015	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.13	mg/l	0.13	0.43	1	353.2		7/6/2015	MDK	I
Sulfate, Unfiltered	69.4	mg/l	17	53	10	300.0		7/7/2015	CWT	I

Lab Code 5029168H
Sample ID TW-13
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		7/1/2015	LPA	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		7/1/2015	LPA	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		7/1/2015	LPA	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		7/1/2015	LPA	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		7/1/2015	LPA	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		7/1/2015	LPA	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		7/1/2015	LPA	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		7/1/2015	LPA	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		7/1/2015	LPA	I

Project Name LEMAY PROPERTY **Invoice #** E29168
Project #

Lab Code 5029168I
Sample ID TB
Sample Matrix Water
Sample Date 6/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		6/30/2015	CJR	
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		6/30/2015	CJR	
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		6/30/2015	CJR	
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		6/30/2015	CJR	
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		6/30/2015	CJR	
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		6/30/2015	CJR	
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		6/30/2015	CJR	
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		6/30/2015	CJR	
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		6/30/2015	CJR	
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		6/30/2015	CJR	
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		6/30/2015	CJR	
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		6/30/2015	CJR	
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		6/30/2015	CJR	
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		6/30/2015	CJR	
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		6/30/2015	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		6/30/2015	CJR	
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		6/30/2015	CJR	
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		6/30/2015	CJR	
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		6/30/2015	CJR	
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		6/30/2015	CJR	
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		6/30/2015	CJR	
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		6/30/2015	CJR	
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		6/30/2015	CJR	
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		6/30/2015	CJR	
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		6/30/2015	CJR	
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		6/30/2015	CJR	
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		6/30/2015	CJR	4 8
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		6/30/2015	CJR	
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		6/30/2015	CJR	
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		6/30/2015	CJR	
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		6/30/2015	CJR	
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		6/30/2015	CJR	
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		6/30/2015	CJR	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		6/30/2015	CJR	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		6/30/2015	CJR	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		6/30/2015	CJR	
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		6/30/2015	CJR	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		6/30/2015	CJR	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		6/30/2015	CJR	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		6/30/2015	CJR	
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		6/30/2015	CJR	
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		6/30/2015	CJR	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		6/30/2015	CJR	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		6/30/2015	CJR	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		6/30/2015	CJR	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		6/30/2015	CJR	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		6/30/2015	CJR	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		6/30/2015	CJR	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		6/30/2015	CJR	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		6/30/2015	CJR	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		6/30/2015	CJR	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		6/30/2015	CJR	
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		6/30/2015	CJR	
SUR - Toluene-d8	96	REC %			1	8260B		6/30/2015	CJR	
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		6/30/2015	CJR	
SUR - 4-Bromofluorobenzene	106	REC %			1	8260B		6/30/2015	CJR	
SUR - Dibromofluoromethane	104	REC %			1	8260B		6/30/2015	CJR	

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

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established 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 # 3038
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) Jon Jones
Project Name / Location: Lemay Prop #1 / Sparta
Report To: M. Kellogg | Invoice To: M. Lemay
Company: Trotwood Engineering | Company: c/o METCO
Address: 721 Bellknap St. | Address: 709 E. Monroe St, Ste. 3
City State Zip: La Crosse, WI 54601 | 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 (HCl, H2SO4, HNO3, NaOH, None)	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 542.2)	VOC (EPA 8260)	8-RCRA METALS	Dissolved Iron	Dissolved Manganese	PID/FID
502711684 A	MW-5	6/24/15				Y	6	GW	HCl			X	X						X		X	X	X	X		
B	MW-3		1025									X	X						X		X	X	X	X		
C	MW-7		1055									X	X						X		X	X	X	X		
D	MW-6		1120									X	X						X		X	X	X	X		
E	MW-4		1150									X	X						X		X	X	X	X		
F	MW-1		1220									X	X						X		X	X	X	X		
G	MW-2		1245									X	X						X		X	X	X	X		
4	TRIP-13		1310			N	3		HCl									X				X				
H	TB								HCl																	

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)
Lab to send copy of report to METCO/Susan P (Invoice to METCO)

MC rates apply * Agent Status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
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
Jon Jones	10:45	6-25-15			

Received in Laboratory By: [signature] Time: 800 Date: 6/26/15

Synergy Environmental Lab,

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

MIKE LEMAY
SPORTMANS CHOICE
721 BELKNAP STREET
SUPERIOR, WI 54880

Report Date *06-Oct-15*

Project Name LEMAY PROPERTY **Invoice #** E29763
Project #

Lab Code 5029763A
Sample ID MW-5
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	0.9 "J"	ug/L	0.7	2.5	1	7421		9/29/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29763
Project #

Lab Code 5029763B
Sample ID MW-3
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	0.8 "J"	ug/L	0.7	2.5	1	7421		9/29/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Lab Code 5029763C
Sample ID MW-7
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	0.9 "J"	ug/L	0.7	2.5	1	7421		9/29/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	2.48	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	1.86 "J"	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	2.17 "J"	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29763
Project #

Lab Code 5029763D
Sample ID MW-6
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	5.5	ug/L	0.7	2.5	1	7421		10/2/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0 73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Lab Code 5029763E
Sample ID MW-4
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		9/29/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0 73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29763
Project #

Lab Code 5029763F
Sample ID MW-1
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	2.2 "J"	ug/L	0.7	2.5	1	7421		10/2/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	840	ug/l	4.6	15	10	GRO95/8021		10/2/2015	CJR	1
Ethylbenzene	12.6 "J"	ug/l	7.3	23	10	GRO95/8021		10/2/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.9	ug/l	4.9	16	10	GRO95/8021		10/2/2015	CJR	1
Naphthalene	78 "J"	ug/l	26	83	10	GRO95/8021		10/2/2015	CJR	1
Toluene	6.3 "J"	ug/l	3.9	12	10	GRO95/8021		10/2/2015	CJR	1
1,2,4-Trimethylbenzene	8.0 "J"	ug/l	6.8	22	10	GRO95/8021		10/2/2015	CJR	1
1,3,5-Trimethylbenzene	14.4 "J"	ug/l	8.3	26	10	GRO95/8021		10/2/2015	CJR	1
m&p-Xylene	151	ug/l	14	44	10	GRO95/8021		10/2/2015	CJR	1
o-Xylene	8.8 "J"	ug/l	6.6	21	10	GRO95/8021		10/2/2015	CJR	1

Lab Code 5029763G
Sample ID MW-2
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		10/2/2015	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	1270	ug/l	23	75	50	GRO95/8021		10/2/2015	CJR	1
Ethylbenzene	510	ug/l	36.5	115	50	GRO95/8021		10/2/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 24.5	ug/l	24.5	80	50	GRO95/8021		10/2/2015	CJR	1
Naphthalene	157 "J"	ug/l	130	415	50	GRO95/8021		10/2/2015	CJR	1
Toluene	< 19.5	ug/l	19.5	60	50	GRO95/8021		10/2/2015	CJR	1
1,2,4-Trimethylbenzene	1020	ug/l	34	110	50	GRO95/8021		10/2/2015	CJR	1
1,3,5-Trimethylbenzene	420	ug/l	41.5	130	50	GRO95/8021		10/2/2015	CJR	1
m&p-Xylene	1570	ug/l	70	220	50	GRO95/8021		10/2/2015	CJR	1
o-Xylene	264	ug/l	33	105	50	GRO95/8021		10/2/2015	CJR	1

Lab Code 5029763H
Sample ID TB
Sample Matrix Water
Sample Date 9/24/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		10/1/2015	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		10/1/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		10/1/2015	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		10/1/2015	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		10/1/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		10/1/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/1/2015	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		10/1/2015	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		10/1/2015	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E29763
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 STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # 3086

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) Jason Jenn

Project (Name / Location): LeMay Property / Superior

Reports To: Mike LeMay	Invoice To: M LeMay
Company: Wilkinson, Steele	Company: c/o METCO
Address: 721 Belknap St.	Address: 309 S Hewitt St, Ste. 3
City State Zip: Superior WI 54880	City State Zip: La Crosse, WI 54601
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 (6 Required)	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
502976 A	MW-5	9-24	1145			Y	4	GW	HCL, HNO3			X						X						
B	MW-3		110									X						X						
C	MW-7		130									X						X						
D	MW-6		155									X						X						
E	MW-4		215									X						X						
F	MW-1		245									X						X						
G	MW-2		310									X						X						
H	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)

Rate Rates apply * Agent Status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
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
Jason Jenn	9:00	9-25-15			

Received in Laboratory By: [signature] Time: 10:00 Date: 9/26/15

Synergy Environmental Lab,

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

MIKE LEMAY
MIKE LEMAY
721 BELKNAP ST.
SUPERIOR, WI 54880

Report Date *09-Jun-16*

Project Name LEMAY PROPERTIES / SUPERIOR **Invoice #** E31144
Project #

Lab Code 5031144A
Sample ID MW-5
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Project Name LEMAY PROPERTIES / SUPERIOR **Invoice #** E31144
Project #

Lab Code 5031144B
Sample ID MW-3
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Lab Code 5031144C
Sample ID MW-6
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0 73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Project Name LEMAY PROPERTIES / SUPERIOR **Invoice #** E31144
Project #

Lab Code 5031144D
Sample ID MW-4
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Lab Code 5031144E
Sample ID MW-7
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	1 49
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0 66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Project Name LEMAY PROPERTIES / SUPERIOR **Invoice #** E31144
Project #

Lab Code 5031144F
Sample ID MW-1
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	1110	ug/l	4.6	15	10	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	86	ug/l	7.3	23	10	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.9	ug/l	4.9	16	10	GRO95/8021		6/8/2016	CJR	1
Naphthalene	137	ug/l	26	83	10	GRO95/8021		6/8/2016	CJR	1
Toluene	15.7	ug/l	3.9	12	10	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	90	ug/l	6.8	22	10	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	45	ug/l	8.3	26	10	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	680	ug/l	14	44	10	GRO95/8021		6/8/2016	CJR	1
o-Xylene	14.9 "J"	ug/l	6.6	21	10	GRO95/8021		6/8/2016	CJR	1

Lab Code 5031144G
Sample ID MW-2
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 1.6	ug/L	1.6	5.2	2	7421		6/7/2016	CWT	149
Organic										
PVOC + Naphthalene										
Benzene	630	ug/l	9.2	30	20	GRO95/8021		6/9/2016	CJR	1
Ethylbenzene	340	ug/l	14.6	46	20	GRO95/8021		6/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 9.8	ug/l	9.8	32	20	GRO95/8021		6/9/2016	CJR	1
Naphthalene	85 "J"	ug/l	52	166	20	GRO95/8021		6/9/2016	CJR	1
Toluene	10.5 "J"	ug/l	7.8	24	20	GRO95/8021		6/9/2016	CJR	1
1,2,4-Trimethylbenzene	261	ug/l	13.6	44	20	GRO95/8021		6/9/2016	CJR	1
1,3,5-Trimethylbenzene	170	ug/l	16.6	52	20	GRO95/8021		6/9/2016	CJR	1
m&p-Xylene	162	ug/l	28	88	20	GRO95/8021		6/9/2016	CJR	1
o-Xylene	37 "J"	ug/l	13.2	42	20	GRO95/8021		6/9/2016	CJR	1

Lab Code 5031144H
Sample ID TB
Sample Matrix Water
Sample Date 5/31/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		6/8/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		6/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		6/8/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		6/8/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		6/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		6/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		6/8/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		6/8/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		6/8/2016	CJR	1

Project Name LEMAY PROPERTIES / SUPERIOR **Invoice #** E31144
Project #

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

Code	*Comment*
1	Laboratory QC within limits.
49	Sample diluted to compensate for matrix interference.

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature Michael Ricker

CHAIN OF STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # No 2878

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) Jon Jenn

Project (Name / Location): LeMay Property / Superior

Reports To: Mike LeMay	Invoice To: Mike LeMay
Company	Company c/o METCO
Address 721 Belknap st	Address 709 Gillette st, ste. 3
City State Zip Superior, WI 54880	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 (6 or 8 RCRA)	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
5-31149-A	MW-5	5-31	930			Y	4	GW	HCL, HNO3			X						X										
B	MW-3	"	950			"	"	"	"			X						X										
C	MW-6	"	1015			"	"	"	"			X						X										
D	MW-4	"	1040			"	"	"	"			X						X										
E	MW-7	"	1100			"	"	"	"			X						X										
F	MW-1	"	1125			"	"	"	"			X						X										
G	MW-2	"	1150			"	"	"	"			X						X										
H	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)

* Rate Rates apply
* Agent status

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: Y Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jon Jenn	1:30 PM	6-1-16			

Received in Laboratory By: [signature] Time: 8:30 AM Date: 6-3-16

Synergy Environmental Lab,

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

MIKE LEMAY
MIKE LEMAY
721 BELKNAP ST.
SUPERIOR, WI 54880

Report Date *09-Sep-16*

Project Name LEMAY PROPERTY **Invoice #** E31659
Project #

Lab Code 5031659A
Sample ID MW-5
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/2/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/2/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/2/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/2/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/2/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/2/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/2/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/2/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/2/2016	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E31659
Project #

Lab Code 5031659B
Sample ID MW-3
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/2/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/2/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/2/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/2/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/2/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/2/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/2/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/2/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/2/2016	CJR	1

Lab Code 5031659C
Sample ID MW-6
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/2/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/2/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/2/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/2/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/2/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/2/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/2/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/2/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/2/2016	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E31659
Project #

Lab Code 5031659D
Sample ID MW-4
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/7/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/7/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/7/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/7/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/7/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/7/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/7/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/7/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/7/2016	CJR	1

Lab Code 5031659E
Sample ID MW-7
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/7/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/7/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/7/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/7/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/7/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/7/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/7/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/7/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/7/2016	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E31659
Project #

Lab Code 5031659F
Sample ID MW-2
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	420	ug/l	23	75	50	GRO95/8021		9/7/2016	CJR	1
Ethylbenzene	269	ug/l	36.5	115	50	GRO95/8021		9/7/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 24.5	ug/l	24.5	80	50	GRO95/8021		9/7/2016	CJR	1
Naphthalene	150 "J"	ug/l	130	415	50	GRO95/8021		9/7/2016	CJR	1
Toluene	< 19.5	ug/l	19.5	60	50	GRO95/8021		9/7/2016	CJR	1
1,2,4-Trimethylbenzene	192	ug/l	34	110	50	GRO95/8021		9/7/2016	CJR	1
1,3,5-Trimethylbenzene	< 41.5	ug/l	41.5	130	50	GRO95/8021		9/7/2016	CJR	1
m&p-Xylene	77 "J"	ug/l	70	220	50	GRO95/8021		9/7/2016	CJR	1
o-Xylene	33 "J"	ug/l	33	105	50	GRO95/8021		9/7/2016	CJR	1

Lab Code 5031659G
Sample ID MW-1
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.8	ug/L	0.8	2.6	1	7421		9/7/2016	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	910	ug/l	4.6	15	10	GRO95/8021		9/7/2016	CJR	1
Ethylbenzene	19.9 "J"	ug/l	7.3	23	10	GRO95/8021		9/7/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.9	ug/l	4.9	16	10	GRO95/8021		9/7/2016	CJR	1
Naphthalene	101	ug/l	26	83	10	GRO95/8021		9/7/2016	CJR	1
Toluene	10.5 "J"	ug/l	3.9	12	10	GRO95/8021		9/7/2016	CJR	1
1,2,4-Trimethylbenzene	9.6 "J"	ug/l	6.8	22	10	GRO95/8021		9/7/2016	CJR	1
1,3,5-Trimethylbenzene	35	ug/l	8.3	26	10	GRO95/8021		9/7/2016	CJR	1
m&p-Xylene	370	ug/l	14	44	10	GRO95/8021		9/7/2016	CJR	1
o-Xylene	< 6.6	ug/l	6.6	21	10	GRO95/8021		9/7/2016	CJR	1

Lab Code 5031659H
Sample ID TB
Sample Matrix Water
Sample Date 8/30/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/7/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		9/7/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		9/7/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		9/7/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		9/7/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		9/7/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		9/7/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		9/7/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		9/7/2016	CJR	1

Project Name LEMAY PROPERTY **Invoice #** E31659
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 # N2 3086

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)	Jason Jensen
Project (Name / Location):	LeMay Property / Superior

Reports To: Mike LeMay	Invoice To: Mike LeMay
Company	Company C/o METCO
Address 721 Belknap St	Address 709 Gillette St, Ste. 3
City State Zip Superior, WI 54880	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	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (0.35 dissolved)	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
503659A	MW-5	8-30	935			Y	4	GW	HCL, HNO3			X						X											
B	MW-3	"	1000			"	"	"	"			X						X											
C	MW-6	"	1035			"	"	"	"			X						X											
D	MW-4	"	1050			"	"	"	"			X						X											
E	MW-7	"	1110			"	"	"	"			X						X											
F	MW-2	"	1130			"	"	"	"			X						X											
G	MW-1	"	1150			"	"	"	"			X						X											
H	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)

* Rate rates apply
* Agent Status

Sample Integrity - To be completed by receiving lab
Method of Shipment: Hand Delivered
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
Jason Jensen	9:00 AM	8-31-16			

Received in Laboratory By: [signature] Time: 8:00 Date: 9/1/16

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)
LeMay Property	816102980		10/4/2016	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 (Y)	Reference Site Datum (Y)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			305514.22	X																	
VO580	MW-1		150830.77	X		4/21/2015	2	P	631.6	631.9	X		4		14	10	11/mw	A	X		
			305490.95	X																	
VO581	MW-2		150851.33	X		4/21/2015	2	P	631.92	632.37	X		4	1.69	14	10	11/mw	A	X		
			305608.07	X																	
VO582	MW-3		150858.79	X		4/21/2015	2	P	630.25	630.6	X		4		14	10	11/mw	A	X	S	80
			305546.17	X																	
VO583	MW-4		150867.96	X		4/21/2015	2	P	631.7	632.17	X		4		14	10	11/mw	A	X	D	31
			305574.38	X																	
VO584	MW-5		150914.28	X		4/21/2015	2	P	630.6	630.91	X		4		14	10	11/mw	A	X	D	85
			305571.55	X																	
VO585	MW-6		150819.11	X		4/21/2015	2	P	630.14	630.38	X		4		14	10	11/mw	A	X	S	42
			305458.16	X																	
VO586	MW-7		150819.87	X		4/20/2015	2	P	631.63	632	X		4	8.93	14	10	11/mw	A	X	U	28

Location Coordinates Are:

☐ State Plane Coordinate
- ☐ Northern
- ☐ Central
- ☐ Southern

|X| Local Grid System

Grid Origin Location: (Check if estimated: ☐)

Lat. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " 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 [X] Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: LeMay Property

Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.

Well Name: TW-7

Facility License, Permit or Monitoring No.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " or
St. Plane _____ ft. N, ft. E. S/C/N

Wis. Unique Well No.: VO541 | DNR Well ID No.: _____

Facility ID: 816102980

Date Well Installed: 6/2/14 (m m d d y y y y)

Type of Well
Well Code 99 / Ot

Section Location of Waste/Source
SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐E ☒W

Well Installed By: Name (first, last) and Firm
Grant
Range Environmental Drilling

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 630 ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

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

13. Sieve analysis performed? ☐ Yes ☒ No

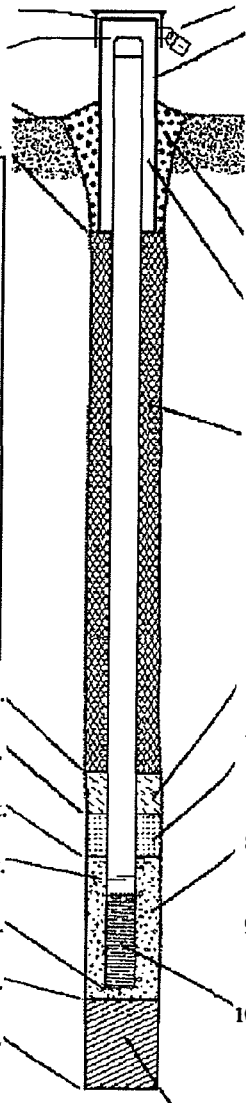
14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other ☒

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 0.5 ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top _____ ft. MSL or 7 ft.
H. Screen joint, top _____ ft. MSL or 8 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 13 ft.
K. Borehole, bottom _____ ft. MSL or 15 ft.
L. Borehole, diameter 2 in.
M. O.D. well casing 1.25 in.
N. I.D. well casing 1 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
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. Granular bentonite _____ Other ☒
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _____
b. Volume added 0.5 _____ 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 Timco
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None ☒ 14
_____ Other ☐

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

Signature _____ Firm METCO

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 [X] Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: LeMay Property

Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.

Well Name: TW-8

Facility License, Permit or Monitoring No.

Local Grid Origin [X] (estimated: [X]) or Well Location ☐
Lat. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " or

Wis. Unique Well No.: VO542

DNR Well ID No.:

Facility ID: 816102980

St. Plane _____ ft. N, _____ ft. E. S/C/N

Date Well Installed: 6/2/14 (m m d d y y y y)

Type of Well
Well Code 99 / Ot

Section Location of Waste/Source
SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐ E [X] W

Well Installed By: Name (first, last) and Firm
Grant
Range Environmental Drilling

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 630 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

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

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other [X]

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No
Describe _____

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

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or 8.5 ft.

H. Screen joint, top _____ ft. MSL or 9.5 ft.

I. Well bottom _____ ft. MSL or 14.5 ft.

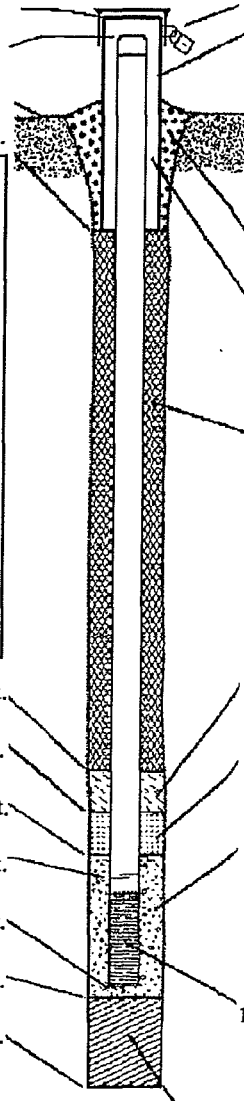
J. Filter pack, bottom _____ ft. MSL or 14.5 ft.

K. Borehole, bottom _____ ft. MSL or 15 ft.

L. Borehole, diameter 2 in.

M. O.D. well casing 1.25 in.

N. I.D. well casing 1 in.



1. Cap and lock? ☐ Yes [X] No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04
Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
_____ Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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. Granular bentonite _____ Other [X] _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _____
b. Volume added 0.5 _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: PVC _____
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
Other ☐ _____
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: _____ ft.

11. Backfill material (below filter pack): None [X] 14
_____ Other ☐ _____

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

Signature _____ Firm METCO

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.

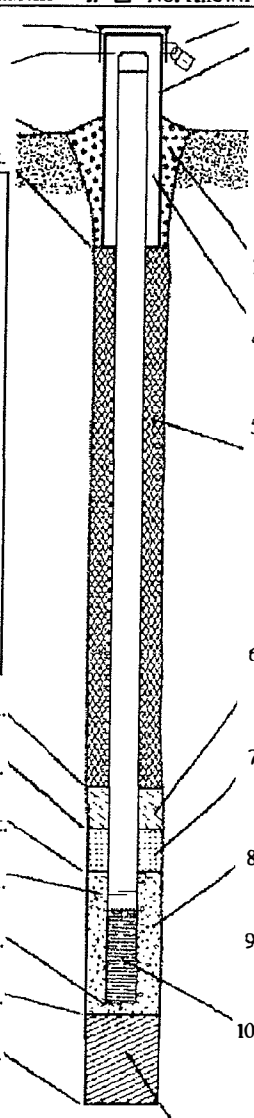
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: LeMay Property	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: TW-13
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " or	Wis. Unique Well No.: VO598 / DNR Well ID No.:
Facility ID: 816102980	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed: 4/20/2015 (m m d d y y y y)
Type of Well: Well Code 99 / Ot	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐E [X]W	Well Installed By: Name (first, last) and Firm: Todd Knuckey; Range Environmental Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply [X]	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 630 ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

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

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other [X]

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No
Describe _____

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

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or 6 ft.

H. Screen joint, top _____ ft. MSL or 7 ft.

I. Well bottom _____ ft. MSL or 12 ft.

J. Filter pack, bottom _____ ft. MSL or 12 ft.

K. Borehole, bottom _____ ft. MSL or 12 ft.

L. Borehole, diameter 2 in.

M. O.D. well casing 1.25 in.

N. I.D. well casing 1 in.

1. Cap and lock? ☐ Yes [X] No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite [X] 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 [X] 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. Granular Bentonite _____ Other [X]

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint #40 _____
b. Volume added 0.5 ft^3

9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
_____

10. Screen material: PVC
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Timco
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None [X] 14
_____ Other ☐

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

Signature _____ Firm METCO

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: LeMay 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. 46° 43' 15" Long. 92° 5' 19" or	Wis. Unique Well No.: VO580 / DNR Well ID No.
Facility ID: 816102980	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 04/21/2015 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐ E ☒ W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental
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 _____ 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 0 ft. MSL or _____ ft.

F. Fine sand, top 1 ft. MSL or _____ ft.

G. Filter pack, top 2 ft. MSL or _____ ft.

H. Screen joint, top 4 ft. MSL or _____ ft.

I. Well bottom 14 ft. MSL or _____ ft.

J. Filterpack, bottom 14 ft. MSL or _____ ft.

K. Borehole, bottom 14 ft. MSL or _____ ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04 / Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Other ☐

4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. #20
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.01 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: Todd Knuckey Firm: Range Environmental Drilling

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: LeMay 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. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " or	Wis. Unique Well No.: VO681 / DNR Well ID No.: ____
Facility ID: 816102980	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 8/21/2015 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐E ☒W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental
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 _____ 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 0 ft. MSL or _____ ft.
F. Fine sand, top 1 ft. MSL or _____ ft.
G. Filter pack, top 2 ft. MSL or _____ ft.
H. Screen joint, top 4 ft. MSL or _____ ft.
I. Well bottom 14 ft. MSL or _____ ft.
J. Filter pack, bottom 14 ft. MSL or _____ ft.
K. Borehole, bottom 14 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.01 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: Todd Knuckey Firm: Range Environmental Drilling

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: LeMay 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. 46° 43' 15" Long. 92° 5' 19" or	Wis. Unique Well No.: VU582 / DNR Well ID No.: ____
Facility ID: 816102980	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 04/21/2015 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐ E ☒ W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental
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 _____ 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 ☐ _____

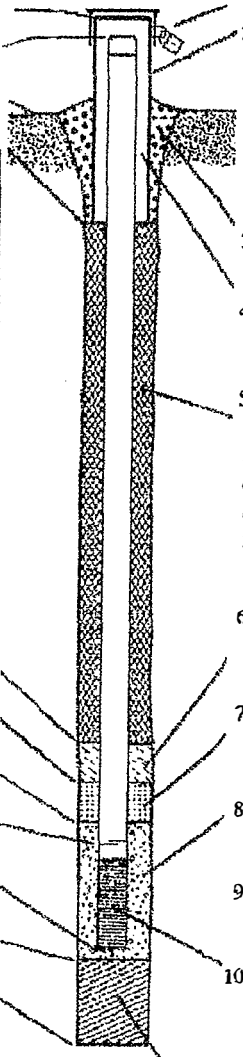
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☑ 99

16. Drilling additives used? ☐ Yes ☑ No

Describe _____

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

E. Bentonite seal, top 0 ft. MSL or _____ ft.
F. Fine sand, top 1 ft. MSL or _____ ft.
G. Filter pack, top 2 ft. MSL or _____ ft.
H. Screen joint, top 4 ft. MSL or _____ ft.
I. Well bottom 14 ft. MSL or _____ ft.
J. Filter pack, bottom 14 ft. MSL or _____ ft.
K. Borehole, bottom 14 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.01 in.
d. Slotted length: 4.0 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: Todd Knuckey Firm: Range Environmental Drilling

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: LeMay Property	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 46° 43' 15" Long. 92° 5' 19" or	Wis. Unique Well No.: VU583 / DNR Well ID No.: ____
Facility ID: 816102980	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 04/21/2015 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐E ☒W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental
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 _____ 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 0 ft. MSL or _____ ft.
F. Fine sand, top 1 ft. MSL or _____ ft.
G. Filter pack, top 2 ft. MSL or _____ ft.
H. Screen joint, top 4 ft. MSL or _____ ft.
I. Well bottom 14 ft. MSL or _____ ft.
J. Filter pack, bottom 14 ft. MSL or _____ ft.
K. Borehole, bottom 14 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.020 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: Todd Knuckey | Firm: Range Environmental Drilling

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

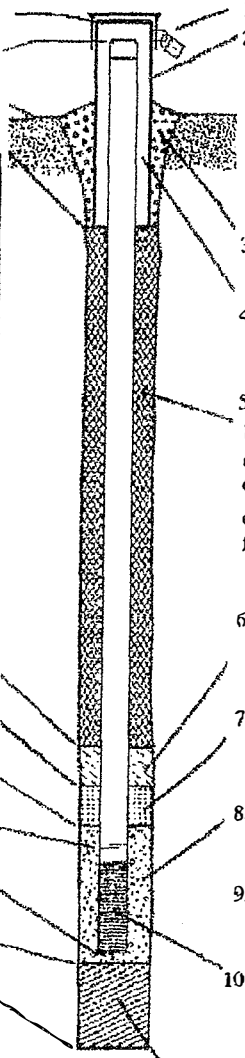
Facility/Project Name: LeMay Property
Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.
Well Name: MW-5

Facility License, Permit or Monitoring No.
Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. 46° 43' 15" Long. 92° 5' 19" or
Wis. Unique Well No.: VU584
DNR Well ID No.: ____

Facility ID: 816102980
St. Plane ____ ft. N, ____ ft. E. S/C/N
Date Well Installed: 04/21/2015 (m m d d y y y y)

Type of Well
Well Code: 11 / MW
Section Location of Waste/Source
SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☐E ☒W
Well Installed By: Name (first, last) and Firm
Todd Knuckey
Range Environmental

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 ____ 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 0 ft. MSL or ____ ft.
F. Fine sand, top 1 ft. MSL or ____ ft.
G. Filter pack, top 2 ft. MSL or ____ ft.
H. Screen joint, top 4 ft. MSL or ____ ft.
I. Well bottom 14 ft. MSL or ____ ft.
J. Filter pack, bottom 14 ft. MSL or ____ ft.
K. Borehole, bottom 14 ft. MSL or ____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.01 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: Todd Knuckey Firm: Range Environmental Drilling

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: LeMay Property	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-6
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. 46° 43' 15" Long. 92° 5' 19" or	Wis. Unique Well No.: VU585 / DNR Well ID No.: ____
Facility ID: 816102980	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 8/21/2015 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: SE 1/4 of SW 1/4 of Sec. 14, T. 49 N, R. 14 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental
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 _____ 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 0 ft. MSL or _____ ft.
F. Fine sand, top 1 ft. MSL or _____ ft.
G. Filter pack, top 2 ft. MSL or _____ ft.
H. Screen joint, top 4 ft. MSL or _____ ft.
I. Well bottom 14 ft. MSL or _____ ft.
J. Filter pack, bottom 14 ft. MSL or _____ ft.
K. Borehole, bottom 14 ft. MSL or _____ ft.
L. Borehole, diameter 3.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☐ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30 / 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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: Todd Knuckey Firm: Range Environmental Drilling

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, 89, 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

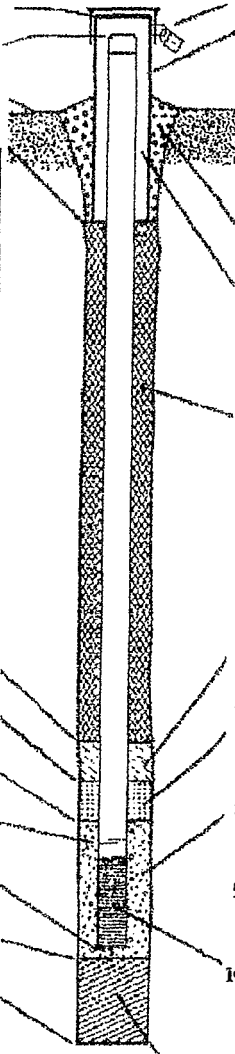
Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

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

Facility/Project Name: LeMay Property
Facility License, Permit or Monitoring No.:
Facility ID: 816102980
Type of Well: Well Code 11 / MW
Distance from Waste/Source _____ ft. | Enf. Stds. Apply ☐

Local Grid Location of Well ☐N. ☐S. _____ ft. ☐E. ☐W. _____ ft.
Local Grid Origin ☐ (estimated: ☐) or Well Location ☐
Lat. 46 ° 43 ' 15 " Long. 92 ° 5 ' 19 " or
St. Plane _____ ft. N, _____ ft. E. S/C/N
Section Location of Waste/Source
SE 1/4 of SW 1/4 of Sec. 14 , T. 49 N, R. 14 ☐E ☒W
Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known
Gov. Lot Number: _____

Well Name: MW-7
Wis. Unique Well No.: V0586 | DNR Well ID No.: _____
Date Well Installed: 04/20/2015 (m m d d y y y y)
Well Installed By: Name (first, last) and Firm
Todd Knuckey
Range Environmental



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 _____ 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 0 ft. MSL or _____ ft.
F. Fine sand, top 1 ft. MSL or _____ ft.
G. Filter pack, top 2 ft. MSL or _____ ft.
H. Screen joint, top 4 ft. MSL or _____ ft.
I. Well bottom 14 ft. MSL or _____ ft.
J. Filterpack, bottom 14 ft. MSL or _____ ft.
K. Borehole, bottom 14 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 2 in.

1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04 Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 Concrete ☐ 01 Other ☐
_____
4. Material between well casing and protective pipe: Bentonite ☐ 30 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. #20
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. #40
b. Volume added 7 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: 0.02 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: Todd Knuckey
Firm: Range Environmental Drilling

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
LeMay Property	DOUGLAS	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	16	VO581 /

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 60 min.

4. Depth of well (from top of well casisng) 14 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 13.5 gal.

7. Volume of water removed from well 90 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 1.69 ft.	1.69 ft.
Date	b. 04 / 21 / 2015 (m m d d y y y y)	4/ 21/ 015 (m m d d y y y y)
Time	c. 11 : 30 X a.m. ☐ p.m.	12 : 30 ☐ a.m. X p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid X 15 (Describe) Red High Turbidity	Clear X 20 Turbid ☐ 25 (Describe) Clear Low Turbidity

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

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Mike Last Name: LeMay
Facility/Firm: Sportsman's Choice
Street: 721 Belknap Street
City/State/Zip: Superior WI 54880-

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
LeMay Property	DOUGLAS	MW-7
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	16	VO586 /

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 195 min.

4. Depth of well (from top of well casisng) 14 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 5.5 gal.

7. Volume of water removed from well 18 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.93 ft.	13.67 ft.
Date	b. 04 / 20 / 2015 (m m d d y y y y)	4/ 20/ 015 (m m d d y y y y)
Time	c. 02 : 55 ☐ a.m. X p.m.	05 : 10 ☐ a.m. X p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid X 15 (Describe) Red High Turbidity	Clear [X] 20 Turbid ☐ 25 (Describe) Light Red Low Turbidity

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

14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Mike Last Name: LeMay
Facility/Firm: Sportsman's Choice
Street: 721 Belknap Street
City/State/Zip: Superior WI 54880-

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
LeMay Property		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Grant Last:	06/02/2014	06/02/2014	Geoprobe
Firm: Range Environmental Drilling	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location	Local Grid Location
State Plane N, E	Lat 46 ° 43 ' 15"
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W	Long 92 ° 5 ' 19 "
	N E
	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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
G-1-1 (0-5 ft)	60 36		2	Brown medium to coarse grained sand w/ gravel	Fill			1630		Moist				Petro Odor
			4											
G-1-2 (5-8 ft)	60 36		6	Brown medium to coarse grained sand w/ gravel	Fill			850		Wet				Petro Odor
			8	EOB @ 8 feet, Geoprobe refusal (concrete). Groundwater sample G-1-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			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**

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
LeMay Property		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Grant Last:	06/02/2014	06/02/2014	Geoprobe
Firm: Range Environmental Drilling	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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	Brown medium to coarse grained sand w/ gravel (0-2 ft)	Fill									
G-2-1 (0-4 ft)	48 24		2					1075		Moist				Petro Odor
			4	Brown clay (2-4 ft)	CL									
G-2-2 (4-8 ft)	48 42		6	Red clay w/ gravel	CL			10		Moist				Petro Odor
			8											
G-2-3 (8-12 ft)	48 48		10	Red clay w/ gravel	CL			10		Wet				Petro Odor
			12	EOB @ 12 feet,. Groundwater sample G-2-W collected at 7-12 feet. Borehole abandoned.										
			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**

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
LeMay Property		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 MM/ DD/ YYYY	06/02/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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
G-3-1 (0-4 ft)	48 30		2	Gray fine to medium grained sand	Fill			120		Moist				Petro Odor
G-3-2 (4-5 ft)	48 12		4	Gray fine to medium grained sand	Fill			470		Wet				Petro Odor
			6	EOB @ 5 feet, Geoprobe refusal. Groundwater sample G-3-W collected at 0-5 feet. Borehole abandoned.										
			8											
			10											
			12											
			14											
			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
LeMay Property		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 MM/ DD/ YYYY	06/02/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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	Black cinders (0-2 ft)	Fill									
G-4-1 (0-4 ft)	48 30		2	Red clay (2-4 ft)	CL			1750		Moist				Petro Odor
			4											
G-4-2 (4-8 ft)	48 42		6	Red clay w/ gravel	CL			1050		Wet				Petro Odor
			8	EOB @ 8 feet. Groundwater sample G-4-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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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
LeMay Property		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Grant Last:	06/02/2014	06/02/2014	Geoprobe
Firm: Range Environmental Drilling	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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
G-5-1 (0-5 ft)	60 36		2	Gray very fine to medium grained sand	Fill			10		Moist /Wet				Slight Petro Odor
			4											
			6	EOB @ 5 feet,. Groundwater sample G-5-W collected at 0-5 feet. Borehole abandoned.										
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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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
LeMay Property		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 MM/ DD/ YYYY	06/02/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample Number & Type	Sample Length Att. & Recovered (in)	Sample 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	Concrete										
G-6-1 (0-5 ft)	60 / 36		2	Red to black coarse sand and gravel	Fill			480		Moist /Wet				Petro Odor and Staining
			4											
			6	EOB @ 5 feet. Groundwater sample G-6-W collected at 0-5 feet. Borehole abandoned.										
			8											
			10											
			12											
			14											
			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
LeMay Property		G-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Grant Last:	06/02/2014	06/02/2014	Geoprobe
Firm: Range Environmental Drilling	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO541		TW-7	Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Local Grid Location
Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample / Soil Properties

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-7-1 (0-5 ft)	60 30		2	Red clay w/ gravel	CL			0		Moist				No Petro Odor
			4											
			6											
G-7-2 (5-10 ft)	60 60		8	Red clay w/ gravel	CL			0		Moist /Wet				No Petro Odor
			10											
G-7-3 (10-15 ft)	60 60		12	Red clay w/ gravel	CL			0		Wet				No Petro Odor
			14											
			16	EOB @ 15 feet. Temporary well TW-7 installed to 13 feet.										
			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
LeMay Property		G-8

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 (MM/ DD/ YYYY)	06/02/2014 (MM /DD/ YYYY)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO542		TW-8	Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample / Soil Properties

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-8-1 (0-5 ft)	60 24		2	Reddish gray clay	CL			0		Moist				No Petro Odor
			4											
			6											
G-8-2 (5-10 ft)	60 60		8	Red clay w/ gravel	CL			0		Moist /Wet				No Petro Odor
			10											
G-8-3 (10-15 ft)	60 60		12	Red clay w/ gravel	CL			0		Wet				No Petro Odor
			14											
			16	EOB @ 15 feet. Temporary well TW-8 installed to 14.5 feet.										
			18											
			20											
			22											
			24											

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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
LeMay Property		G-9

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 MM/ DD/ YYYY	06/02/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Local Grid Location
Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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-9-1 (0-5 ft)	60 24		2	Red clay w/ gravel	CL			0		Moist				No Petro Odor
			4											
			6											
G-9-2 (5-10 ft)	60 60		8	Red clay w/ gravel	CL			0		Moist /Wet				No Petro Odor
			10	EOB @ 10 feet. Groundwater sample G-9-W collected at 5-10 feet. Borehole abandoned.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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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
LeMay Property		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Grant Last:
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
06/02/2014 MM/ DD/ YYYY	06/02/2014 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample Number & Type	Sample Length Att. & Recovered (in)	Sample 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
G-10-1 (0-5 ft)	60 36		2	Brown sand and gravel (0-3 ft)	Fill			0		Moist /Wet				No Petro Odor
			4	Red clay w/ gravel (3-5 ft)	CL									
			6	EOB @ 5 feet,. Groundwater sample G-10-W collected at 0-5 feet. Borehole abandoned.										
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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Signature: Firm: **METCO**

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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
LeMay Property		G-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Grant Last:	06/02/2014	06/02/2014	Geoprobe
Firm: Range Environmental Drilling	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample | Soil Properties

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-11-1 (0-5 ft)	60 30		2	Red to gray sand and gravel (0-3 ft)	Fill			0		Moist /Wet				No Petro Odor
			4	Red clay w/ gravel (3-5 ft)	CL									
			6	EOB @ 5 feet,. Groundwater sample G-11-W collected at 0-5 feet. Borehole abandoned.										
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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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
LeMay Property		G-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			625 Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample Number & Type	Sample Length Att. & Recovered (in)	Sample 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
G-12-1 (0-4 feet)	48 / 24		2	Brown to black sand and gravel	FILL			130		M				Petro Odor and Sheen
			4	Gray sand and gravel (4-6 ft)	FILL									
G-12-2 (4-8 feet)	48 / 42		6	Red clay (6-8 ft)	CL			0		M/W				Slight Petro Odor
			8	EOB at 8 Feet Groundwater sample G-12-W collected at 3-8 feet. Borehole abandoned.										
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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
LeMay Property		G-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			620 Feet MSL	630 Feet MSL	2 inches

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample Number & Type	Sample Length Att. & Recovered (in)	Sample 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	Soil Properties Compressive Strength	Soil Properties Moisture Content	Soil Properties Liquid Limit	Soil Properties Plasticity Index	Soil Properties P 200	RQD / Comments
			0	Concrete Red sand and gravel (0-2 ft)	FILL									
G-13-1 (0-4 feet)	48 24		2					0		M				No Petro Odor
			4	Red clay (2-4 ft)	CL									
G-13-2 (4-8 feet)	48 48		6	Red clay	CL			0		M				No Petro Odor
			8											
G-13-3 (8-12 feet)	48 24		10	Red clay	CL			0		W				No Petro Odor
			12	EOB at 12 Feet. Temp well TW-13 installed to 12 feet.										
			14											
			16											
			18											
			20											
			22											
			24											

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
LeMay Property		MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/21/2015 MM/ DD/ YYYY	04/21/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO580		MW-1	622 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 46° 43' 15"	N	E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W	Long 92° 5' 19"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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-1-1 (0-4 feet)	48 24		2	Brown medium to coarse grained sand with gravel	FILL			1150		M				Petro Odor
			4	Brown medium to coarse grained sand with gravel (4-6 ft)	FILL									
MW-1-2 (4-8 feet)	48 42		6	Red clay (6-8 ft)	CL			85		W				Petro Odor
			8											
MW-1-3 (8-12 feet)	48 48		10	Red clay	CL			120		W				Petro Odor
			12											
MW-1-4 (12-14 feet)	24 24		14	Red clay	CL			1650		W				Petro Odor
				EOB at 14 Feet. Installed monitoring well MW-1 to 14 feet.										
			16											
			18											
			20											
			22											
			24											

See Well Construction Form

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
LeMay Property		MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/21/2015 MM/ DD/ YYYY	04/21/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO581		MW-2	628 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46° 43' 15"
Long 92° 5' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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 (0-4 feet)	48 42		2	Tan fine to medium grained sand	FILL		See Well Construction Form	0		W				No Petro odor
MW-2-2 (4-8 feet)	48 48		6	Tan fine to medium grained sand	FILL			12		W				Slight Petro Odor
MW-2-3 (8-12 feet)	48 24		10	Tan medium to coarse grained sand with gravel	FILL			7		W				
MW-2-4 (12-14 feet)	24 24		12	Tan medium to coarse grained sand with gravel(12-13ft)	FILL			7		W				Slight Petro Odor
			14	Red clay with gravel (13-14 ft)	CL									
			16	EOB at 14 Feet. Installed monitoring well MW-2 to 14 feet.										
			18											
			20											
			22											
			24											

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
LeMay Property		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm
First: Todd Last: Knuckey
Firm: Range Environmental Drilling

Drilling Date Started	Drilling Date Completed	Drilling Method
04/21/2015 (MM/ DD/ YYYY)	04/21/2015 (MM /DD/ YYYY)	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO582		MW-3	620 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46° 43' 15"
Long 92° 5' 19"

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample | Soil Properties

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-3-1 (0-4 feet)	48 / 24		2	Tan to gray sand and gravel (0-3 ft)	SP		See Well Construction Form	0		M				No Petro Odor
			4	Red clay (3-4 ft)	CL									
MW-3-2 (4-8 feet)	48 / 6		6	Red clay	CL			0		M				No Petro Odor
			8											
MW-3-3 (8-12 feet)	48 / 0		10	No recovery										
			12											
MW-3-4 (12-14 feet)	24 / 12		14	Red clay with gravel	CL			0		W				No Petro Odor
				EOB at 14 Feet. Installed monitoring well MW-3 to 14 feet.										
			16											
			18											
			20											
			22											
			24											

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
LeMay Property		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO583		MW-4	620 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 46 ° 43 ' 15"	N E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W	Long 92 ° 5 ' 19 "	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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
MW-4-1 (0-4 feet)	48 30		2	Tan sand and gravel (0-3 ft)	FILL		See Well Construction Form	0		M				No Petro Odor
			4	Red clay (3-4 ft)	CL									
				Red clay (4-4.5 ft)	CL									
MW-4-2 (4-8 feet)	48 48		6	Red fine to coarse grained sand (4.5-7 ft)	SP			0		W				No Petro Odor
			8	Red clay (7-8 ft)	CL									
MW-4-3 (8-12 feet)	48 48		10	Red clay	CL			0		W				No Petro Odor
			12											
MW-4-4 (12-14 feet)	24 42			Red clay	CL			0		W				No Petro Odor
			14	EOB at 14 Feet. Installed monitoring well MW-4 to 14 feet.										
			16											
			18											
			20											
			22											
			24											

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
LeMay Property		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO584		MW-5	620 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

Sample Number & Type	Sample Length Att. & Recovered (in)	Sample 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	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD / Comments
			2	Brown to gray sand and gravel (0-2 ft)	FILL									
MW-5-1 (0-4 feet)	48 36		4	Red clay (2-4 ft)	CL			0		M				No Petro Odor
MW-5-2 (4-8 feet)	48 48		6 8	Red clay	CL			0		M				No Petro Odor
MW-5-3 (8-12 feet)	48 48		10	Red clay				0		W				No Petro Odor
MW-5-4 (12-14 feet)	24 24		12 14	Red clay	CL			0		W				No Petro Odor
			16 18 20 22 24	EOB at 14 Feet. Installed monitoring well MW-5 to 14 feet.			See Well Construction Form							

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
LeMay Property		MW-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO585		MW-6	620 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location
State Plane N, E
SE¼ of SW¼ of Section 14 , T 49 N, R 14 W

Lat 46 ° 43 ' 15"
Long 92 ° 5 ' 19 "

Local Grid Location
N E
Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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-6-1 (0-4 feet)	48 30		2	Gray sand and gravel (0-3 ft)	FILL		See Well Construction Form	0		M				No Petro Odor
			4	Red clay (3-4 ft)	CL									
MW-6-2 (4-8 feet)	48 48		6	Red clay	CL			0		M				No Petro Odor
			8											
MW-6-3 (8-12 feet)	48 0		10	No recovery										
			12	Red clay (12-12.5 ft)	CL									
MW-6-4 (12-14 feet)	24 24			Gray medium to coarse grained sand with gravel (12.5-13.5 ft)	SP									
			14	Red clay (13.5-14 ft)	CL			0		W				No Petro Odor
				EOB at 14 Feet. Installed monitoring well MW-6 to 14 feet.										
			16											
			18											
			20											
			22											
			24											

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
LeMay Property		MW-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Todd Last: Knuckey Firm: Range Environmental Drilling	04/20/2015 MM/ DD/ YYYY	04/20/2015 MM /DD/ YYYY	Geoprobe/HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO586		MW-7	621 Feet MSL	630 Feet MSL	8

Local Grid Origin (estimated X) or Boring Location — Local Grid Location

State Plane N, E — Lat 46 ° 43 ' 15" — N E

SE¼ of SW¼ of Section 14 , T 49 N, R 14 W — Long 92 ° 5 ' 19 " — Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
816102980	Douglas	16	City of Superior

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-7-1 (0-4 feet)	48 42		2	Gray to black sand and gravel	FILL		See Well Construction Form	70		M				Petro Odor and Staining
			4											
MW-7-2 (4-8 feet)	48 24		6	Red clay	CL			0		M				Petro Odor from 4-6 ft
			8											
MW-7-3 (8-12 feet)	48 48		10	Red clay	CL			0		W				No Petro Odor
			12	Red clay (12-12.5 ft)	CL									
MW-7-4 (12-14 feet)	24 24			Tan medium to coarse grained sand with gravel (12.5-13.5 ft)	SP									
			14	Red clay (13.5-14 ft)	CL			5		W				Slight Petro Odor
				EOB at 14 Feet. Installed monitoring well MW-7 to 14 feet.										
			16											
			18											
			20											
			22											
			24											

Signature: Firm: METCO

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes): 46 ° 43.2528 'N; 92 ° 5.3232 'W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	14	49 N	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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)
	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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

G-1 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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-		6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

46 ° 43.2528 ' N

92 ° 5.3232 ' W

¼ / ¼	¼	Section	Township	Range
SE	SW	14	49 N	14 ☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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)
	8

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	12	18	

6. Comments

G-2 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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-		6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes): 46 ° 43.2528 ' N; 92 ° 5.3232 ' W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	Wi Unique Well # of Replacement Well
Sampling Complete	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
5	

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

2. Facility / Owner Information

Facility Name: LeMay Property
Facility ID (FID or PWS): 816102980
License/Permit/Monitoring #:
Original Well Owner: Mike LeMay
Present Well Owner: Mike LeMay
Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	5	7.5	

6. Comments

G-3 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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-		6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

46 ° 43.2528 ' N

92 ° 5.3232 ' W

¼ / ¼	¼	Section	Township	Range	E/W
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior — Well ZIP Code: 54880-

Subdivision Name — Lot #

Reason For Removal From Service: Sampling Complete — WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior — State: WI — ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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)
	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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	8	12	

6. Comments

G-4 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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 — Date Signed: 6/27/2014

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.w .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 #
DOUGLAS	_ _ _ _ _ _	

Latitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

46 ° 43.2528 ' N

92 ° 5.3232 ' W

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior | Well ZIP Code: 54880-

Subdivision Name | Lot #

Reason For Removal From Service: Sampling Complete | WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior | State: WI | ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
5	
Lower Drillhole Diameter (in.) 2	Casing Depth (ft.)

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	5	7.5	

6. Comments

G-5 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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 | Date Signed: 6/27/2014

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 #
DOUGLAS		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

46 ° 43.2528 ' N

92 ° 5.3232 ' W

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior | Well ZIP Code: 54880-

Subdivision Name | Lot #

Reason For Removal From Service: Sampling Complete | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior | State: WI | ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
5	
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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	5	7.5	

6. Comments

G-6 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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

Date Signed: 6/27/2014

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 #
DOUGLAS		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

46 ° 43.2528 ' N

92 ° 5.3232 ' W

¼ / ¼	¼	Section	Township	Range	E/W
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior | Well ZIP Code: 54880-

Subdivision Name | Lot #

Reason For Removal From Service: Sampling Complete | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior | State: WI | ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

[X] Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
13	1
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	8

Was well annular space grouted? [X] 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?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ 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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	13	19.5	

6. Comments

G-7/TW-7 Removed temp well screen and casing.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/4/2014

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 | Date Signed: 6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes): 46 ° 43.2528 'N; 92 ° 5.3232 'W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

[X] Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
14.5	1

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	9.5

Was well annular space grouted? [X] Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
8.5	12.75

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?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ 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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	14.5	22	

6. Comments

G-8/TW-8 Removed temp well screen and casing.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/4/2014

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

Date Signed: 6/27/2014

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 fo feiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Pe sonally identifiable information on this fo m is not intended to be used for any othe purpose. Return form to the app op iate 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/Redevelopm nt ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes) 46 ° 43.2528 'N; 92 ° 5.3232 'W — Method Code (see instructions)

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name — Lot #

Reason For Removal From Service: Sampling Complete — WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

If a Well Construction Repo t 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.)
10	
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)
	9

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	10	15	

6. Comments

G-9 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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-		6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
46 ° 43.2528 ' N	
92 ° 5.3232 ' W	

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Sampling Complete	

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
5	

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	5	7.5	

6. Comments

G-10 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

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-		6/27/2014

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
46 ° 43.2528 ' N	
92 ° 5.3232 ' W	

¼ / ¼	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

or Gov't Lot #

Well Street Address: 721 Belknap Street

Well City, Village or Town	Well ZIP Code
Superior	54880-

Subdivision Name	Lot #

Reason For Removal From Service	Wi Unique Well # of Replacement Well
Sampling Complete	

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner	State	ZIP Code
Superior	WI	54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 6/2/2014

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.)
5	

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?	☐ Yes	☐ No	[X] 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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Medium Bentonite Chips	Surface	5	7.5	

6. Comments

G-11 Abandoned by Range Environmental Drilling under supervision of METCO personnel.

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl/METCO		6/2/2014

Street or Route	Telephone Number
709 Gillette Street, Suite 3	(608) 781-8879

City	State	ZIP Code
La Crosse	WI	54603-

Signature of Person Doing Work

Date Signed: 6/27/2014

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 #
DOUGLAS	_ _ _ _ _	

Latitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

46 ° 43 . _ _ _ ' N

92 ° 5 . _ _ _ ' W

¼ / ¼ or Gov't Lot #	Section	Township	Range
SE ¼ SW	14	49 N	14 ☐ E [X] W

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior | Well ZIP Code: 54880-

Subdivision Name | Lot #

Reason For Removal From Service: Sampling Complete | WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior | State: WI | ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/20/2015

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.): 8 | Casing Diameter (in.):

Lower Drillhole Diameter (in.): 2 | Casing Depth (ft.):

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

If yes, to what depth (feet)? | Depth to Water (feet): 7.5

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 [X] Bentonite Chips

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

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds
Bentonite Chips	Surface	8	12

6. Comments

G-12
Abandoned by Range Environmental Drilling under METCO's supervision

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Eric Dahl | License #

Date of Filling & Sealing (mm/dd/yyyy): 4/20/2015

Street or Route: 709 Gillette Street | Telephone Number: (608) 781-8879

City: La Crosse | State: WI | ZIP Code: 54603-

Signature of Person Doing Work | Date Signed: 5/18/2015

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 #
DOUGLAS		

Latitude / Longitude (Degrees and Minutes): 46 ° ' N / 92 ° ' W — Method Code (see instructions):

¼ / ¼ or Gov't Lot #	¼	Section	Township	Range	
SE	SW	14	49 N	14	☐ E [X] W

Well Street Address: 721 Belknap Street

Well City, Village or Town: Superior — Well ZIP Code: 54880-

Subdivision Name: — Lot #:

Reason For Removal From Service: Sampling Complete — Wi Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: LeMay Property

Facility ID (FID or PWS): 816102980

License/Permit/Monitoring #:

Original Well Owner: Mike LeMay

Present Well Owner: Mike LeMay

Mailing Address of Present Owner: 721 Belknap Street

City of Present Owner: Superior — State: WI — ZIP Code: 54880-

3. Well / Drillhole / Borehole Information

[X] Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 4/20/2015

If a Well Construction Report is available, please attach.

Construction Type: [X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	1
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	7

Was well annular space grouted? [X] Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? — Depth to Water (feet): 2.11

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?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ 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.)	Lbs.	
Bentonite Chips	Surface	12	6	

6. Comments

Temp Well TW-13

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Jon Jensen — License #:

Date of Filling & Sealing (mm/dd/yyyy): 6/24/2015

Street or Route: 709 Gillette St

Telephone Number: (608) 781-8879

City: La Crosse — State: WI — ZIP Code: 54603-

Signature of Person Doing Work: Jon Jensen

Date Signed: 6/25/2015

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

17-30 2015

CUSTOMER: Mike LeMay % METCO
709 Gillette St
La Crosse WI 54603

JOB NAME: LeMay Property
Spring WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	Mobilization	1	274 —	274 —
	2	Haul 55l drums to Advanced Disposal - Eau Claire WI	2	103 —	206 —

Thank You
Matt

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

TOTAL 480 —

SIGNATURE _____

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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). Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

------> If web-calculator result or Csat exceeds 10% by weight (the **ceiling** limit concentration defined in RSL Users Guide), Not-to-Exceed D-C RCL defaults to 100,000 ppm.

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 872.***

Site Name:

Sample ID:

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	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	111	1.49	1.49	ca				
Ethylbenzene	100-41-4	4220	7.47	7.47	ca				
Toluene	108-88-3	5300	-	818	Csat				
Xylenes	1330-20-7	890	-	258	Csat				
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23800	59.4	59.4	ca				
Dichloroethane, 1,2-	107-06-2	46.7	0.61	0.61	ca				
Dibromoethane, 1,2-	106-93-4	107	0.05	0.05	ca				
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc				
Trimethylbenzene, 1,3,5-	108-67-8	782	-	182	Csat				
Naphthalene	91-20-3	188	5.15	5.15	ca				
Benzo[a]pyrene	50-32-8	-	0.01	0.01	ca				
Acenaphthene	83-32-9	3440	-	3440	nc				
Anthracene	120-12-7	17200	-	17200	nc				
Benz[a]anthracene	56-55-3	-	0.15	0.15	ca				
Benzo(j)fluoranthene	205-82-3	-	0.38	0.38	ca				
Benzo[b]fluoranthene	205-99-2	-	0.15	0.15	ca				
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca				
Chrysene	218-01-9	-	14.8	14.8	ca				
Dibenz[a,h]anthracene	53-70-3	-	0.01	0.01	ca				
Dibenzo(a,e)pyrene	192-65-4	-	0.04	0.04	ca				
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	0	0	ca				
Fluoranthene	206-44-0	2290	-	2290	nc				
Fluorene	86-73-7	2290	-	2290	nc				
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.15	0.15	ca				
Methylnaphthalene, 1-	90-12-0	4010	15.6	15.6	ca				
Methylnaphthalene, 2-	91-57-6	229	-	229	nc				
Nitropyrene, 4-	57835-92-4	-	0.38	0.38	ca				
Pyrene	129-00-0	1720	-	1720	nc				
Lead and Compounds	7439-92-1	400	-	400	nc				

03-14-563925

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.00E+00 | 0.0E+00

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI 1.00E+00 | ≤ 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!	*Type BRRTS No. Here (If Known). Assess groundwater levels separately.*
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			

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 defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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 groundwater 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			
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP or Silvex)	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			
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	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 clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

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

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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-ad} (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-ad}$ (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-ad} (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-ad}$ (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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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_{air}/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_{sl} 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_c (acres)	.5
T (exposure interval) yr	26
d_c (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

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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

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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	6.52E-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	-	-	-	-	-	-	-	-	4.00E+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	3.59E+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-01 ca
Benzo(j)fluoranthene	-	-	-	-	-	-	-	-	4.24E-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	-	-	-	-	-	-	-	-	4.24E-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+00 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), (13), Register, August, 1995, No. 476, eff. 9−1−95; cr. (14m), Register, October, 1996, No. 490, eff. 11−1−96; am. (20), Register, December, 1998, No. 516, eff. 1−1−99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats., Register, April, 2001, No. 544; CR 02−134; 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[5]	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 03-063: 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

A.7 Other
LeMay Property
Slug Test Calculations

MW-2

	ft/s	cm/s	m/yr
K	4.18E-05	1.27E-03	401.79
	sq ft/s	**sq cm/s**	
T	5.18E-04	4.81E-01	

MW-3

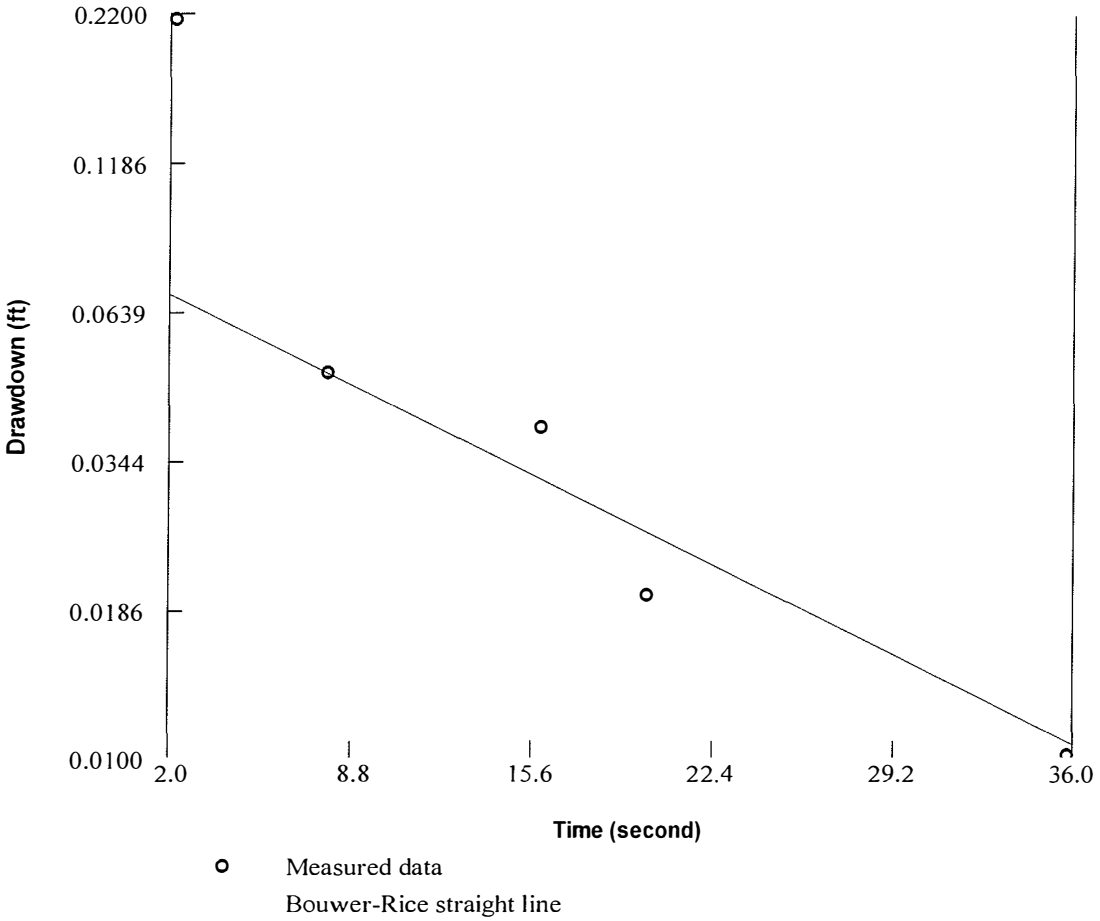
	ft/s	cm/s	m/yr
K	6.46E-06	1.97E-04	62.09
	sq ft/s	**sq cm/s**	
T	6.71E-05	6.23E-02	

MW-4

	ft/s	cm/s	m/yr
K	3.36E-06	1.02E-04	32.30
	sq ft/s	**sq cm/s**	
T	4.02E-05	3.73E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
6/24/2015	630.00	624.00	41	0.1463415
9/24/2015	629.00	625.00	32	0.1250000
5/31/2016	629.00	625.00	39	0.1025641
8/30/2016	629.00	625.00	36	0.1111111
Average				0.1212542

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-2	401.79	0.1212542	0.3	162.39575
MW-3	62.09	0.1212542	0.3	25.09558
MW-4	32.3	0.1212542	0.3	13.05504



Aquifer Parameters by the Bouwer and Rice Slug Test

Hydraulic Conductivity (ft/s):	4.18e-005
Transmissivity (sq ft/s):	5.18e-004

LeMay Property MW-2 Slug Out

LeMay Property
MW-2 Slug Out

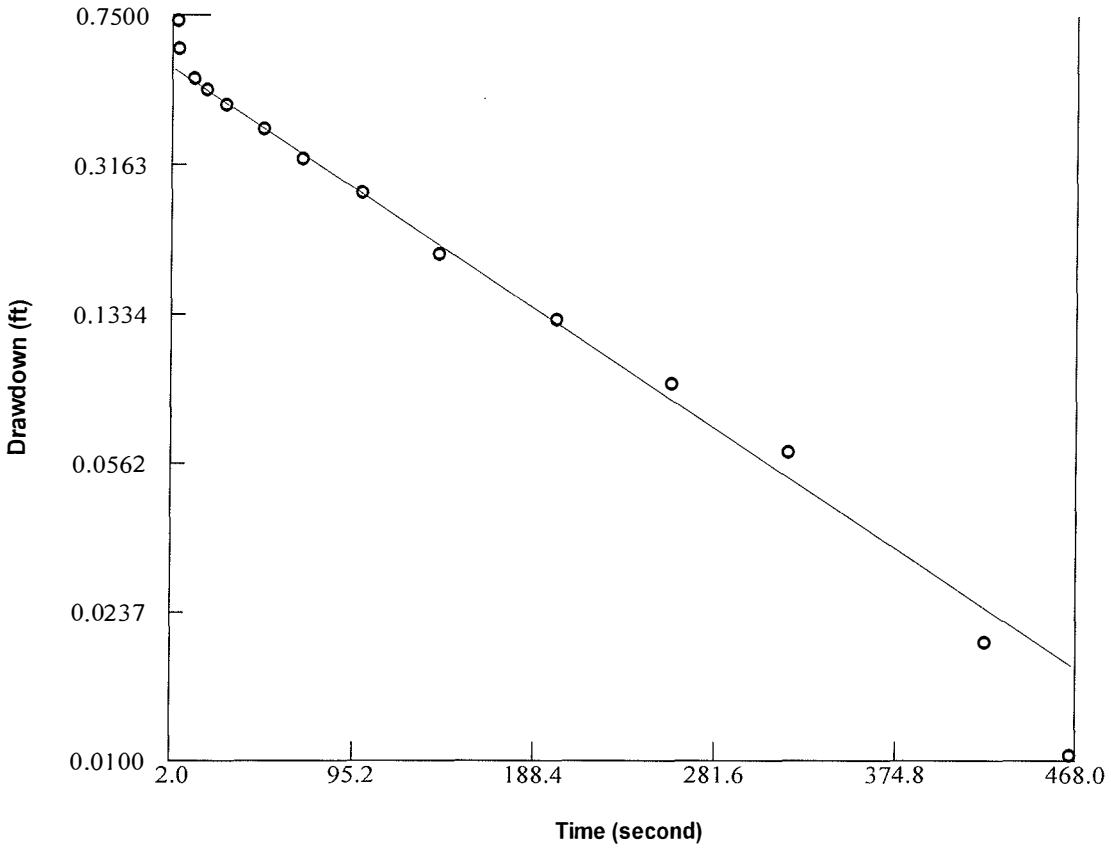
LEVEL[ft]	TEMPERATURE[°F]	Time (seconds)	Drawdown
46.12	46.84	0	1.23
45.11	46.84	2	0.22
44.88	46.84	4	0.01
44.86	46.84	6	0.04
44.84	46.84	8	0.05
44.86	46.84	10	0.04
44.86	46.84	12	0.04
44.86	46.84	14	0.04
44.86	46.83	16	0.04
44.86	46.83	18	0.04
44.87	46.83	20	0.02
44.87	46.83	22	0.02
44.86	46.83	24	0.04
44.87	46.83	26	0.02
44.87	46.83	28	0.02
44.87	46.83	30	0.02
44.87	46.83	32	0.02
44.87	46.81	34	0.02
44.88	46.83	36	0.01
44.88	46.81	38	0.01
44.88	46.83	40	0.01
44.88	46.83	42	0.01
44.87	46.81	44	0.02
44.88	46.81	46	0.01
44.88	46.81	48	0.01
44.89	46.81	50	0
44.88	46.81	52	0.01
44.88	46.81	54	0.01
44.88	46.81	56	0.01
44.88	46.81	58	0.01
44.88	46.81	60	0.01
44.88	46.81	62	0.01
44.88	46.8	64	0.01
44.88	46.8	66	0.01
44.88	46.8	68	0.01
44.88	46.8	70	0.01
44.88	46.8	72	0.01
44.88	46.8	74	0.01
44.87	46.8	76	0.02
44.88	46.8	78	0.01
44.88	46.8	80	0.01
44.89	46.81	82	0
44.88	46.8	84	0.01
44.89	46.81	86	0
44.88	46.81	88	0.01
44.89	46.81	90	0
44.89	46.81	92	0

LeMay Property
MW-2 Slug Out

44.88	46.81	94	0.01
44.88	46.81	96	0.01
44.89	46.81	98	0
44.89	46.81	100	0
44.88	46.81	102	0.01
44.88	46.81	104	0.01
44.89	46.81	106	0
44.89	46.81	108	0
44.89	46.81	110	0
44.89	46.83	112	0
44.88	46.83	114	0.01
44.89	46.83	116	0
44.89	46.83	118	0
44.88	46.83	120	0.01
44.88	46.83	122	0.01
44.89	46.83	124	0
44.89	46.83	126	0
44.88	46.83	128	0.01
44.88	46.83	130	0.01
44.88	46.83	132	0.01
44.88	46.84	134	0.01
44.88	46.84	136	0.01
44.88	46.84	138	0.01
44.88	46.84	140	0.01
44.88	46.84	142	0.01
44.88	46.84	144	0.01
44.89	46.84	146	0
44.89	46.84	148	0
44.88	46.84	150	0.01
44.88	46.84	152	0.01
44.88	46.84	154	0.01
44.88	46.84	156	0.01
44.88	46.84	158	0.01
44.88	46.84	160	0.01
44.88	46.84	162	0.01
44.87	46.85	164	0.02
44.87	46.85	166	0.02
44.89	46.85	168	0.01
44.89	46.85	170	0.01
44.89	46.85	172	0.01
44.89	46.85	174	0.01
44.87	46.85	176	0.02
44.89	46.85	178	0.01
44.89	46.85	180	0.01
44.87	46.85	182	0.02
44.87	46.85	184	0.02
44.87	46.85	186	0.02
44.89	46.86	188	0.01

LeMay Property
MW-2 Slug Out

44.87	46.86	190	0.02
44.87	46.86	192	0.02
44.87	46.86	194	0.02
44.87	46.86	196	0.02
44.87	46.86	198	0.02
44.87	46.86	200	0.02
44.89	46.86	202	0.01
44.89	46.86	204	0.01
44.89	46.86	206	0.01
44.87	46.86	208	0.02
44.89	46.86	210	0.01
44.86	46.86	212	0.03
44.87	46.86	214	0.02
44.87	46.86	216	0.02
44.87	46.86	218	0.02
44.89	46.86	220	0.01
44.89	46.86	222	0.01
44.89	46.86	224	0.01
44.89	46.86	226	0.01
44.87	46.86	228	0.02
44.89	46.86	230	0.01
44.87	46.86	232	0.02
44.89	46.86	234	0.01
44.89	46.86	236	0.01
44.89	46.86	238	0.01
44.87	46.86	240	0.02
44.89	46.86	242	0.01
44.89	46.86	244	0.01
44.87	46.86	246	0.02
44.87	46.86	248	0.02
44.87	46.86	250	0.02
44.89	46.86	252	0.01
44.89	46.86	254	0.01
44.89	46.86	256	0.01
44.89	46.87	258	0.01



Aquifer Parameters by the Bouwer and Rice Slug Test

Hydraulic Conductivity (ft/s):	6.46e-006
Transmissivity (sq ft/s):	6.71e-005

LeMay Property MW-3 Slug Out

LeMay Property
MW-3 Slug Out

LEVEL[ft]	TEMPERATURE[°F]	Time (seconds)	Drawdown
43.95	49.15	0	0.73
43.97	49.15	2	0.75
43.85	49.15	4	0.63
42.6	49.15	6	0.62
42.64	49.14	8	0.58
42.67	49.14	10	0.56
42.69	49.14	12	0.53
42.7	49.14	14	0.52
42.71	49.14	16	0.51
42.71	49.14	18	0.51
42.73	49.14	20	0.49
42.74	49.14	22	0.48
42.74	49.14	24	0.48
42.76	49.14	26	0.46
42.76	49.13	28	0.46
42.77	49.13	30	0.45
42.77	49.13	32	0.45
42.78	49.13	34	0.44
42.79	49.13	36	0.43
42.8	49.14	38	0.42
42.81	49.13	40	0.41
42.81	49.14	42	0.41
42.81	49.14	44	0.41
42.82	49.13	46	0.4
42.82	49.13	48	0.4
42.83	49.13	50	0.39
42.83	49.14	52	0.39
42.84	49.14	54	0.38
42.84	49.14	56	0.38
42.86	49.13	58	0.37
42.86	49.13	60	0.37
42.86	49.13	62	0.36
42.86	49.13	64	0.36
42.88	49.13	66	0.34
42.88	49.13	68	0.34
42.89	49.13	70	0.33
42.89	49.13	72	0.33
42.9	49.13	74	0.32
42.89	49.13	76	0.33
42.9	49.13	78	0.32
42.91	49.13	80	0.31
42.92	49.13	82	0.3
42.91	49.12	84	0.31
42.93	49.12	86	0.29
42.92	49.12	88	0.3
42.93	49.12	90	0.29
42.93	49.12	92	0.29

LeMay Property
MW-3 Slug Out

42.93	49.12	94	0.29
42.94	49.12	96	0.28
42.95	49.11	98	0.27
42.95	49.11	100	0.27
42.95	49.12	102	0.27
42.94	49.12	104	0.28
42.95	49.11	106	0.27
42.95	49.12	108	0.27
42.96	49.11	110	0.26
42.97	49.11	112	0.25
42.98	49.11	114	0.24
42.98	49.11	116	0.24
42.98	49.11	118	0.24
42.99	49.11	120	0.23
42.98	49.11	122	0.24
42.99	49.11	124	0.23
43.01	49.11	126	0.21
42.99	49.11	128	0.23
43.01	49.11	130	0.21
43.01	49.11	132	0.21
43.02	49.11	134	0.2
43.02	49.11	136	0.2
43.02	49.11	138	0.2
43.03	49.11	140	0.19
43.03	49.11	142	0.19
43.03	49.11	144	0.19
43.04	49.11	146	0.18
43.04	49.11	148	0.18
43.04	49.11	150	0.18
43.03	49.09	152	0.19
43.04	49.09	154	0.18
43.04	49.09	156	0.18
43.04	49.09	158	0.18
43.04	49.09	160	0.18
43.05	49.09	162	0.17
43.05	49.09	164	0.17
43.05	49.09	166	0.17
43.05	49.09	168	0.17
43.05	49.09	170	0.17
43.06	49.09	172	0.16
43.07	49.09	174	0.15
43.07	49.09	176	0.15
43.07	49.09	178	0.15
43.09	49.09	180	0.13
43.07	49.09	182	0.15
43.07	49.09	184	0.15
43.09	49.09	186	0.13
43.09	49.08	188	0.13

LeMay Property
MW-3 Slug Out

43.09	49.08	190	0.13
43.09	49.08	192	0.13
43.1	49.08	194	0.13
43.1	49.08	196	0.13
43.1	49.08	198	0.13
43.09	49.08	200	0.13
43.1	49.08	202	0.13
43.1	49.08	204	0.13
43.1	49.08	206	0.13
43.1	49.08	208	0.13
43.11	49.08	210	0.11
43.11	49.07	212	0.11
43.11	49.07	214	0.11
43.11	49.07	216	0.11
43.11	49.07	218	0.11
43.11	49.07	220	0.11
43.11	49.07	222	0.11
43.11	49.07	224	0.11
43.11	49.07	226	0.11
43.11	49.07	228	0.11
43.11	49.07	230	0.11
43.11	49.07	232	0.11
43.11	49.07	234	0.11
43.11	49.07	236	0.11
43.12	49.07	238	0.1
43.12	49.07	240	0.1
43.13	49.06	242	0.09
43.13	49.06	244	0.09
43.13	49.06	246	0.09
43.12	49.07	248	0.1
43.13	49.06	250	0.09
43.13	49.07	252	0.09
43.13	49.06	254	0.09
43.13	49.06	256	0.09
43.13	49.06	258	0.09
43.13	49.06	260	0.09
43.13	49.06	262	0.09
43.14	49.06	264	0.08
43.14	49.06	266	0.08
43.14	49.06	268	0.08
43.14	49.06	270	0.08
43.13	49.06	272	0.09
43.14	49.06	274	0.08
43.14	49.06	276	0.08
43.14	49.06	278	0.08
43.14	49.06	280	0.08
43.14	49.06	282	0.08
43.14	49.06	284	0.08

LeMay Property
MW-3 Slug Out

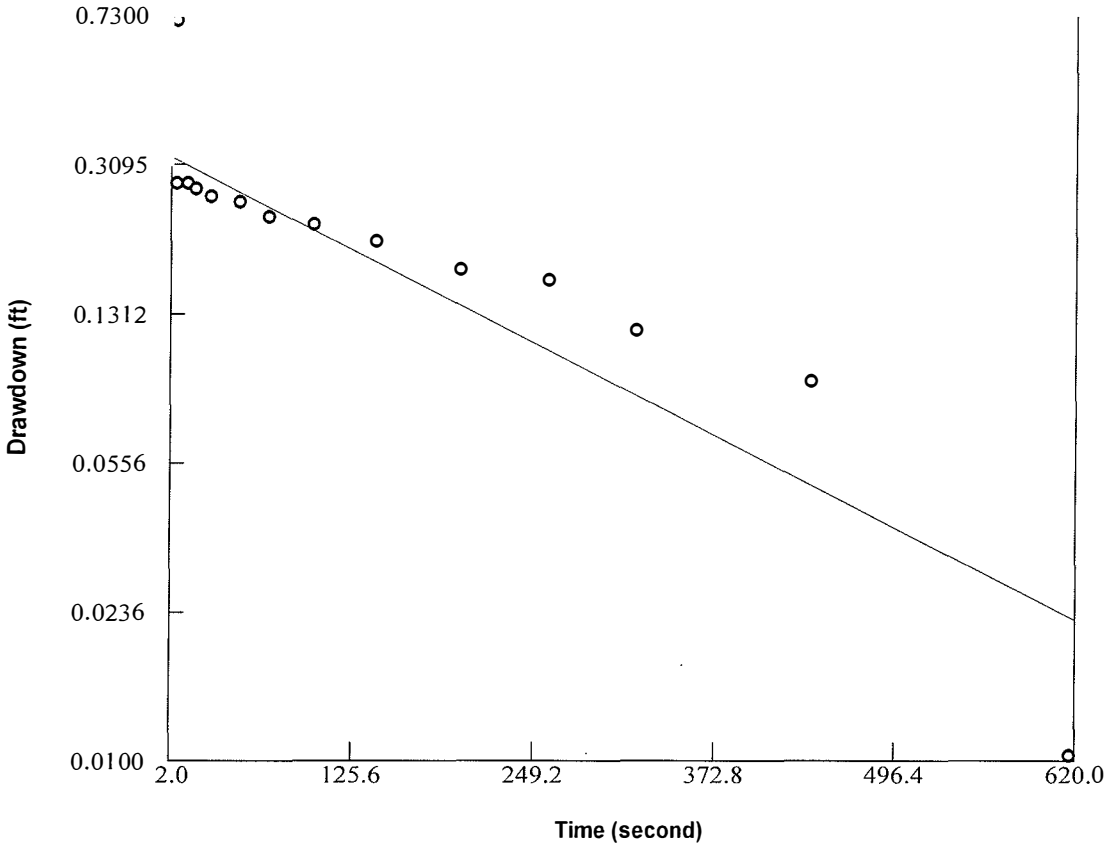
43.15	49.06	286	0.07
43.15	49.06	288	0.07
43.15	49.06	290	0.07
43.14	49.06	292	0.08
43.15	49.06	294	0.07
43.15	49.06	296	0.07
43.15	49.06	298	0.07
43.16	49.06	300	0.06
43.15	49.06	302	0.07
43.15	49.06	304	0.07
43.16	49.05	306	0.06
43.17	49.05	308	0.05
43.17	49.05	310	0.05
43.17	49.05	312	0.05
43.16	49.05	314	0.06
43.16	49.05	316	0.06
43.16	49.05	318	0.06
43.16	49.05	320	0.06
43.17	49.05	322	0.05
43.17	49.05	324	0.05
43.17	49.05	326	0.05
43.16	49.05	328	0.06
43.17	49.03	330	0.05
43.17	49.03	332	0.05
43.17	49.03	334	0.05
43.17	49.03	336	0.05
43.18	49.03	338	0.04
43.18	49.03	340	0.04
43.18	49.03	342	0.04
43.17	49.03	344	0.05
43.17	49.02	346	0.05
43.18	49.02	348	0.04
43.18	49.03	350	0.04
43.18	49.03	352	0.04
43.18	49.03	354	0.04
43.17	49.03	356	0.05
43.18	49.03	358	0.04
43.18	49.03	360	0.04
43.17	49.02	362	0.05
43.18	49.02	364	0.04
43.18	49.02	366	0.04
43.17	49.02	368	0.05
43.18	49.02	370	0.04
43.18	49.02	372	0.04
43.18	49.02	374	0.04
43.19	49.01	376	0.03
43.19	49.02	378	0.03
43.2	49.01	380	0.02

LeMay Property
MW-3 Slug Out

43.19	49.01	382	0.03
43.19	49.01	384	0.03
43.19	49.02	386	0.03
43.19	49.02	388	0.03
43.19	49.02	390	0.03
43.19	49.02	392	0.03
43.19	49.02	394	0.03
43.2	49.01	396	0.02
43.21	49.01	398	0.01
43.21	49.01	400	0.01
43.21	49.01	402	0.01
43.2	49.01	404	0.02
43.21	49.01	406	0.01
43.21	49.01	408	0.01
43.21	49.01	410	0.01
43.2	49.01	412	0.02
43.2	49.01	414	0.02
43.21	49.01	416	0.01
43.2	49.01	418	0.02
43.19	49	420	0.03
43.2	49	422	0.02
43.2	49	424	0.02
43.2	49	426	0.02
43.2	49	428	0.02
43.2	49	430	0.02
43.2	49	432	0.02
43.2	49	434	0.02
43.2	49	436	0.02
43.2	49	438	0.02
43.2	49	440	0.02
43.2	49	442	0.02
43.2	49	444	0.02
43.21	49	446	0.01
43.21	49	448	0.01
43.2	49	450	0.02
43.2	49	452	0.02
43.2	49	454	0.02
43.21	49	456	0.01
43.2	49	458	0.02
43.21	48.99	460	0.01
43.2	48.99	462	0.02
43.21	48.99	464	0.01
43.2	48.99	466	0.02
43.21	48.99	468	0.01
43.21	48.99	470	0.01
43.21	48.99	472	0.01
43.22	48.99	474	0
43.21	48.99	476	0.01

LeMay Property
MW-3 Slug Out

43.22	48.99	478	0



Aquifer Parameters by the Bouwer and Rice Slug Test

Hydraulic Conductivity (ft/s):	3.36e-006
Transmissivity (sq ft/s):	4.02e-005

LeMay Property MW-4 Slug Out

LeMay Property
MW-4 Slug Out

LEVEL[ft]	TEMPERATURE[°F]	Time (seconds)	Drawdown
45.55	45.27	0	1.12
43.7	45.27	2	0.73
44.06	45.27	4	0.37
44.15	45.27	6	0.28
44.15	45.25	8	0.28
44.15	45.27	10	0.28
44.15	45.27	12	0.28
44.15	45.27	14	0.28
44.15	45.27	16	0.28
44.16	45.27	18	0.27
44.16	45.27	20	0.27
44.16	45.27	22	0.27
44.16	45.27	24	0.27
44.16	45.27	26	0.27
44.16	45.27	28	0.27
44.17	45.27	30	0.26
44.16	45.28	32	0.27
44.17	45.28	34	0.26
44.16	45.27	36	0.27
44.17	45.27	38	0.26
44.17	45.27	40	0.26
44.17	45.27	42	0.26
44.18	45.25	44	0.25
44.18	45.25	46	0.25
44.18	45.24	48	0.25
44.18	45.23	50	0.25
44.18	45.23	52	0.25
44.18	45.22	54	0.25
44.18	45.21	56	0.25
44.17	45.21	58	0.26
44.18	45.19	60	0.25
44.18	45.19	62	0.25
44.18	45.18	64	0.25
44.18	45.18	66	0.25
44.2	45.17	68	0.23
44.2	45.17	70	0.23
44.2	45.17	72	0.23
44.2	45.16	74	0.23
44.2	45.16	76	0.23
44.2	45.16	78	0.23
44.2	45.16	80	0.23
44.2	45.15	82	0.23
44.2	45.15	84	0.23
44.2	45.15	86	0.23
44.21	45.15	88	0.22
44.21	45.15	90	0.22
44.21	45.15	92	0.22

LeMay Property
MW-4 Slug Out

44.21	45.15	94	0.22
44.21	45.13	96	0.22
44.21	45.13	98	0.22
44.21	45.13	100	0.22
44.21	45.13	102	0.22
44.2	45.12	104	0.23
44.2	45.12	106	0.23
44.2	45.12	108	0.23
44.2	45.12	110	0.23
44.2	45.11	112	0.23
44.2	45.11	114	0.23
44.21	45.11	116	0.22
44.2	45.1	118	0.23
44.2	45.1	120	0.23
44.21	45.1	122	0.22
44.21	45.1	124	0.22
44.21	45.09	126	0.22
44.21	45.09	128	0.22
44.23	45.09	130	0.2
44.21	45.09	132	0.22
44.23	45.09	134	0.2
44.23	45.09	136	0.2
44.23	45.09	138	0.2
44.21	45.09	140	0.22
44.23	45.09	142	0.2
44.23	45.09	144	0.2
44.23	45.09	146	0.2
44.23	45.09	148	0.2
44.24	45.09	150	0.2
44.23	45.09	152	0.2
44.21	45.09	154	0.22
44.23	45.09	156	0.2
44.23	45.09	158	0.2
44.23	45.09	160	0.2
44.24	45.09	162	0.2
44.24	45.09	164	0.2
44.24	45.09	166	0.2
44.24	45.09	168	0.2
44.23	45.09	170	0.2
44.24	45.09	172	0.2
44.25	45.09	174	0.18
44.25	45.09	176	0.18
44.25	45.09	178	0.18
44.25	45.09	180	0.18
44.25	45.09	182	0.18
44.26	45.09	184	0.17
44.26	45.09	186	0.17
44.25	45.09	188	0.18

LeMay Property
MW-4 Slug Out

44.26	45.09	190	0.17
44.26	45.09	192	0.17
44.25	45.09	194	0.18
44.26	45.09	196	0.17
44.26	45.09	198	0.17
44.26	45.1	200	0.17
44.26	45.1	202	0.17
44.26	45.1	204	0.17
44.26	45.1	206	0.17
44.26	45.1	208	0.17
44.26	45.11	210	0.17
44.26	45.11	212	0.17
44.26	45.11	214	0.17
44.26	45.11	216	0.17
44.26	45.11	218	0.17
44.26	45.11	220	0.17
44.26	45.11	222	0.17
44.27	45.11	224	0.16
44.26	45.11	226	0.17
44.27	45.11	228	0.16
44.27	45.11	230	0.16
44.26	45.11	232	0.17
44.26	45.11	234	0.17
44.26	45.11	236	0.17
44.27	45.11	238	0.16
44.27	45.11	240	0.16
44.27	45.11	242	0.16
44.27	45.12	244	0.16
44.26	45.12	246	0.17
44.27	45.12	248	0.16
44.27	45.12	250	0.16
44.28	45.12	252	0.15
44.27	45.12	254	0.16
44.27	45.12	256	0.16
44.27	45.12	258	0.16
44.27	45.12	260	0.16
44.27	45.12	262	0.16
44.27	45.12	264	0.16
44.27	45.12	266	0.16
44.28	45.12	268	0.15
44.28	45.12	270	0.15
44.28	45.13	272	0.15
44.29	45.13	274	0.14
44.29	45.13	276	0.14
44.29	45.13	278	0.14
44.29	45.13	280	0.14
44.29	45.15	282	0.14
44.3	45.15	284	0.13

LeMay Property
MW-4 Slug Out

44.29	45.15	286	0.14
44.29	45.15	288	0.14
44.29	45.15	290	0.14
44.3	45.15	292	0.13
44.3	45.15	294	0.13
44.3	45.15	296	0.13
44.3	45.15	298	0.13
44.3	45.15	300	0.13
44.3	45.15	302	0.13
44.3	45.15	304	0.13
44.3	45.15	306	0.13
44.3	45.15	308	0.13
44.3	45.15	310	0.13
44.3	45.15	312	0.13
44.3	45.15	314	0.13
44.3	45.15	316	0.13
44.3	45.15	318	0.13
44.31	45.15	320	0.12
44.31	45.16	322	0.12
44.31	45.16	324	0.12
44.31	45.16	326	0.12
44.31	45.16	328	0.12
44.31	45.16	330	0.12
44.32	45.16	332	0.11
44.31	45.17	334	0.12
44.32	45.17	336	0.11
44.32	45.17	338	0.11
44.32	45.17	340	0.11
44.32	45.17	342	0.11
44.32	45.17	344	0.11
44.32	45.17	346	0.11
44.32	45.17	348	0.11
44.32	45.17	350	0.11
44.32	45.17	352	0.11
44.32	45.17	354	0.11
44.33	45.17	356	0.1
44.33	45.17	358	0.1
44.33	45.17	360	0.1
44.33	45.17	362	0.1
44.33	45.17	364	0.1
44.32	45.17	366	0.11
44.32	45.17	368	0.11
44.32	45.17	370	0.11
44.33	45.17	372	0.1
44.33	45.17	374	0.1
44.34	45.17	376	0.09
44.33	45.18	378	0.1
44.33	45.18	380	0.1

LeMay Property
MW-4 Slug Out

44.33	45.18	382	0.1
44.33	45.18	384	0.1
44.33	45.18	386	0.1
44.34	45.18	388	0.09
44.33	45.18	390	0.1
44.33	45.18	392	0.1
44.33	45.18	394	0.1
44.33	45.18	396	0.1
44.34	45.18	398	0.09
44.34	45.18	400	0.09
44.33	45.19	402	0.1
44.34	45.18	404	0.09
44.34	45.18	406	0.09
44.34	45.18	408	0.09
44.34	45.18	410	0.09
44.34	45.19	412	0.09
44.34	45.19	414	0.09
44.34	45.18	416	0.09
44.34	45.19	418	0.09
44.33	45.19	420	0.1
44.33	45.19	422	0.1
44.34	45.19	424	0.09
44.34	45.19	426	0.09
44.34	45.21	428	0.09
44.34	45.21	430	0.09
44.34	45.21	432	0.09
44.34	45.21	434	0.09
44.34	45.21	436	0.09
44.34	45.21	438	0.09
44.34	45.21	440	0.09
44.35	45.21	442	0.08
44.35	45.21	444	0.08
44.35	45.21	446	0.08
44.35	45.21	448	0.08
44.34	45.21	450	0.09
44.35	45.21	452	0.08
44.35	45.21	454	0.08
44.35	45.21	456	0.08
44.36	45.21	458	0.07
44.35	45.21	460	0.08
44.35	45.21	462	0.08
44.36	45.21	464	0.07
44.35	45.21	466	0.08
44.35	45.21	468	0.08
44.35	45.21	470	0.08
44.36	45.22	472	0.07
44.36	45.22	474	0.07
44.36	45.22	476	0.07

LeMay Property
MW-4 Slug Out

44.36	45.22	478	0.07
44.36	45.22	480	0.07
44.36	45.22	482	0.07
44.36	45.22	484	0.07
44.36	45.22	486	0.07
44.36	45.22	488	0.07
44.36	45.22	490	0.07
44.37	45.22	492	0.06
44.37	45.22	494	0.06
44.37	45.22	496	0.06
44.37	45.22	498	0.06
44.37	45.22	500	0.06
44.37	45.22	502	0.06
44.37	45.22	504	0.06
44.37	45.22	506	0.06
44.38	45.22	508	0.05
44.38	45.22	510	0.05
44.38	45.22	512	0.05
44.38	45.22	514	0.05
44.38	45.22	516	0.05
44.38	45.22	518	0.05
44.38	45.22	520	0.05
44.38	45.22	522	0.05
44.39	45.23	524	0.04
44.39	45.23	526	0.04
44.39	45.23	528	0.04
44.39	45.23	530	0.04
44.39	45.23	532	0.04
44.4	45.23	534	0.03
44.4	45.23	536	0.03
44.4	45.23	538	0.03
44.4	45.23	540	0.03
44.39	45.23	542	0.04
44.39	45.23	544	0.04
44.39	45.23	546	0.04
44.4	45.23	548	0.03
44.4	45.23	550	0.03
44.4	45.23	552	0.03
44.4	45.23	554	0.03
44.4	45.23	556	0.03
44.4	45.23	558	0.03
44.4	45.23	560	0.03
44.4	45.23	562	0.03
44.4	45.23	564	0.03
44.4	45.23	566	0.03
44.4	45.23	568	0.03
44.4	45.23	570	0.03
44.4	45.23	572	0.03

LeMay Property
MW-4 Slug Out

44.4	45.23	574	0.03
44.4	45.23	576	0.03
44.41	45.23	578	0.02
44.41	45.23	580	0.02
44.4	45.23	582	0.03
44.41	45.23	584	0.02
44.41	45.24	586	0.02
44.41	45.24	588	0.02
44.4	45.24	590	0.03
44.41	45.24	592	0.02
44.4	45.24	594	0.03
44.41	45.24	596	0.02
44.4	45.24	598	0.03
44.43	45.24	600	0.01
44.41	45.24	602	0.02
44.41	45.24	604	0.02
44.41	45.24	606	0.02
44.41	45.24	608	0.02
44.41	45.24	610	0.02
44.41	45.24	612	0.02
44.43	45.24	614	0.01
44.41	45.24	616	0.02
44.41	45.24	618	0.02
44.43	45.24	620	0.01
44.43	45.24	622	0.01
44.43	45.24	624	0.01
44.43	45.24	626	0.01
44.43	45.24	628	0.01
44.43	45.24	630	0.01
44.41	45.24	632	0.02
44.43	45.24	634	0.01
44.43	45.24	636	0.01
44.43	45.25	638	0.01
44.43	45.25	640	0.01
44.43	45.25	642	0.01
44.43	45.25	644	0.01
44.43	45.25	646	0.01
44.43	45.25	648	0.01
44.43	45.25	650	0.01
44.43	45.25	652	0.01

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.

Matthew C. Michalski

Professional Title

- Hydrogeologist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1261443).
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the National Groundwater Association
- Member of the American Institute of Professional Geologist
- Member of the Geological Society of America

Education

Includes B.S. in Geology with an emphasis in Hydrogeology and Water Chemistry from the University of Wisconsin-Eau Claire, completion of Western Michigan University's Hydrogeology Field Camp, a B.S. In Geography from the University of Wisconsin-La Crosse. Applicable courses successfully completed include Hydrogeology, Contaminant Hydrogeology, Aqueous Geochemistry, Geomorphology and Aerial Photograhy interpretation, Sedimentology and Stratigraphy, Structural Geology, Mineralogy and Petrology, Hazardous Waste Operation and Emergency Response, Surface Geophysics, Principles and Practices of Groundwater Sampling and Monitoring, Principles and Practices of Aquifer Testing, Principles of Well Drilling and Installation, Remediation Design and Implementation, Water Resources, Environmental Hazards and Land Use, and Advanced Map Design.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course.

Work Experience

With METCO since May 2016 as a Hydrogeologist and from August 2012 to August 2014 as a Staff Scientist. Duties have included: soil and groundwater sampling, 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), and operation and maintenance of remedial systems, site mapping, data reduction and analysis, and reporting.

Bryce 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.

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."

Jason T. Powell
Staff Scientist

10/13/16
Date

"I Ronald J. Anderson, hereby certify that I am a hydrogeologist as that term is defined in s.NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Ronald J. Anderson PG
Senior Hydrogeologist/Project Manager

10/13/16
Date