Site Investigation Report

River Bends Bar
N7298 County Highway X
Attica (Town of Brooklyn), Wisconsin

October 31, 2017
By METCO
WDNR BRRTS #: 03-23-198810
PECFA Claim #: 53502-9519-98-A

METCO

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This document was prepared by:

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October 31, 2017

BRRTS #: 03-23-198810
PECFA Claim #: 53502-9519-98-A

Tina Klitzke
N3602 Church Road
Monticello, WI 53570

Dear Ms. Klitzke,

Enclosed is our "Site Investigation Report" concerning the former River Bends Bar site at N7298 County Highway X in Attica (Town of Brooklyn), 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 NR140 PAL) to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Due to the existing Direct Contact issue, groundwater contaminant trends, on-site and neighboring private wells, and close-proximity of the contamination to the existing structure, the WDNR may require further work prior to site closure. Per WDNR response to this report, METCO will proceed with the 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: Dan Graf – WDNR

LIST OF ACRONYMS

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

EXECUTIVE SUMMARY

Ron Miller purchased the River Bends Bar in 1980. The subject property had a small UST system for retail fuel sales that operated from approximately 1950 until 1968. The bar closed in approximately 2010 due to financial troubles. The Klitzke's recently purchased the bar, remodeled the building, and re-opened the business.

On August 31, 1998, three UST's were removed from the subject property. The UST's consisted of a 500-gallon gasoline, a 1,000-gallon gasoline, and a 1,000-gallon fuel oil. During the UST removal, four soil samples were collected from beneath the removed UST's for laboratory analysis (DRO and/or GRO). Laboratory results showed soil contamination levels as high as 840 ppm DRO and 6,200 ppm GRO. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST or ERP sites are known to exist within four miles of the subject property.

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

- Geologic material in the area of investigation generally consists of interbedded layers of sand, silty/clayey sand, sandy silt/clay, and clay with gravel present in some locations from around ground surface to at least 28 feet below ground surface (bgs). Fill material consisting of sand, gravel, and concrete was encountered in the area of the removed 500-gallon gasoline UST from ground surface to depths ranging from 2 to 6 feet bgs.

- Bedrock was not encountered as part of this site investigation; however Cambrian Sandstone is estimated to exist at approximately 25-50 feet bgs.

- According to data collected from the monitoring wells, the depth to groundwater ranges from 4.95 to 9.46 feet bgs depending on well location and time of year.

- Based on watertable measurements collected during the four groundwater sampling events, local horizontal groundwater flow in the immediate area of the subject property is generally toward the northeast to east-northeast.

- An area of unsaturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact and Groundwater RCL values, exists in the area of the former dispenser. Contamination exceeding the NR720 Non-Industrial Direct Contact RCL's is present in soil boring G-1 for Benzene, Ethylbenzene, Naphthalene, 1,2,4-Trimethylbenzene, and Xylene. This area appears to measure up to 12 feet long, 12 feet wide, and up to 4 feet thick.

- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former dispenser, removed 500-gallon gasoline UST, and removed 1,000-gallon gasoline UST and dispenser along the western side on the on-site building. Contamination exceeding the NR720 Groundwater RCL's is present in soil borings G-1, G-2, G-3, G-11, and MW-3 for Benzene, Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylene. This area appears to measure up to 74 feet long, 17 feet wide, and up to 7.5 feet thick.

- A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable in the area of the former gasoline dispenser and removed UST systems and has migrated toward the east-northeast. This plume measures approximately 185 feet long and 105 feet wide.

- Based on the most recent groundwater analytical results, two monitoring wells (MW-1 and MW-4) currently show NR140 ES exceedances for petroleum compounds (PVOC's and/or Naphthalene). Two monitoring wells (MW-2 and MW-5) showed NR140 PAL exceedances for petroleum compounds. The other monitoring well (MW-3) currently shows no detects for PVOC's or Naphthalene.

- The on-site potable well has been sampled 5 times for VOC analysis. The potable well at the café to the north of the subject property has been sampled 4 times for VOC analysis. Lab analysis of the potable wells has shown no detects for VOC's in all sampling events.

- Based on the receptor survey, groundwater contamination does pose a risk to the nearby private wells, however sampling has not shown any petroleum detects in these wells. The vapor intrusion risk may need to be further investigated due to close-proximity of the contaminant plume to the on-site building. There does not appear to be any risk to any surface waters or risk of contaminant migration along utility corridors.

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 NR140 PAL) to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Due to the existing Direct Contact issue, groundwater contaminant trends, on-site and neighboring private wells, and close-proximity of the contamination to the existing structure, the WDNR may require further work prior to site closure. Per WDNR response to this report, METCO will proceed with the 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

Tina Klitzke
N3602 Church Road
Monticello, WI 53570
(608) 938-1226

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

Geiss Soil & Samples, LLC
E4490 Pope Road
Merrill, WI 54452
(715) 539-3928

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

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

Soil Essentials
P.O. Box 959
New Glarus, WI 53574
(608) 527-2355

1.3 Site Location

Site Address:

N7298 County Highway X
Attica (Town of Brooklyn), Wisconsin

Latitude and Longitude:
42° 46' 11" N and 89° 28' 51" W

WTM Coordinates:
562467, 255388

Township/Range:
NE ¼, NW ¼, Section 6, Township 3 North, Range 9 East, Green County

1.4 Site History

Ron Miller purchased the River Bends Bar in 1980. The subject property had a small UST system for retail fuel sales that operated from approximately 1950 until 1968. The bar closed in approximately 2010 due to financial troubles. The Klitzke's recently purchased the bar, remodeled the building, and re-opened the business.

On August 31, 1998, three UST's were removed from the subject property. The UST's consisted of a 500-gallon gasoline, a 1,000-gallon gasoline, and a 1,000-gallon fuel oil. During the UST removal, four soil samples were collected from beneath the removed UST's for laboratory analysis (DRO and/or GRO). Laboratory results showed soil contamination levels as high as 840 ppm DRO and 6,200 ppm GRO. The petroleum contamination was reported to the WDNR, who then required that a site investigation be conducted.

No other LUST or ERP sites are known to exist within four miles 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, the subject is located in the eastern portion of the Pectonica-Sugar River Basin. This area is characterized by rolling hills and wide level valley floors. Continental glaciers eroded the bedrock surface and deposited large quantities of unconsolidated material in this area.

The elevation of the site is approximately 840 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.

Unconsolidated materials in the area of the investigation generally consist of interbedded layers of sand, silty/clayey sand, sandy silt/clay, and clay with gravel present in some locations from around ground surface to at least 28 feet bgs. Fill material consisting of sand, gravel, and concrete was encountered in the area of the removed 500-gallon gasoline UST from ground surface to depths ranging from 2 to 6 feet bgs.

Bedrock was not encountered as part of this site investigation; however Cambrian Sandstone is estimated to exist at approximately 25-50 feet bgs.

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 4.95 to 9.46 feet bgs depending on well location and time of year.

Based on watertable measurements collected during the two groundwater sampling events, local horizontal groundwater flow in the immediate area of the subject property is generally toward the northeast to east-northeast. Groundwater Flow Direction Maps are presented in Section 6.

2.2 Receptors

Buildings, Basements, Sumps, and Utility Corridors

A telephone line exists in the area of groundwater contamination exceeding the NR140 ES and/or PAL. Telephone lines typically exist within 30 inches of ground surface and are backfilled with native soil. Therefore, this does not appear to be a potential contaminant migration pathway.

The area of soil and groundwater contamination appears to extend up to and underneath the on-site building and may pose a vapor intrusion risk. However, it should be noted that: 1) Renovations to the building were made inside the basement and a new concrete wall has been installed in the basement along the west side of the building. 2) Free product has not been encountered in any monitoring wells. 3) Benzene concentrations in groundwater are less than 1,000 ppb.

Municipal and Private Water Supply Wells

The subject property and surrounding properties are all served by private potable wells. The potable well for the subject property is located in the basement of the building and within 12 feet of the removed UST systems. A potable well for the café at N7302 County Highway X existed approximately 135 feet to the north of the removed UST systems. This well was abandoned and replaced with a new well that is located approximately 205 feet to the north

of the removed UST systems. A potable well exists at the residence at N7301 County Highway X, approximately 200 feet to the northwest of the removed UST systems. A potable well exists at the residence at N7299 County Highway X, approximately 100 feet to the west of the removed UST systems, however this well could not be located during the investigation as the owner denied access to his property. A private well exists at the residence at N7309 County Highway X, approximately 225 feet to the northwest of the removed UST systems, but the property owner did not disclose the well location. A private well may also exist on the adjacent property to the south which consists of several barns, but no well was located during the investigation. Other wells exist in this area, but are located over 500 feet away from the removed UST systems. The on-site potable well was sampled five times for VOC analysis. The old café well was sampled two times for VOC analysis and the new café well was sampled two times for VOC analysis. No VOC compounds were detected in any of the potable well sampling events.

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

Surface Waters

The nearest surface water is the Sugar River, which exists approximately 450 feet to the east of the subject property.

3.0 SITE INVESTIGATION RESULTS AND RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

1) Collect site background information.

2) On July 31, 2012, METCO prepared a LUST Investigation Field Procedures Workplan.

3) On September 5-6, 2012, METCO supervised the completion of fifteen Geoprobe borings. Fifty-four soil and nine groundwater samples were collected for field and/or laboratory analysis. A water sample was also collected from the on-site potable well. Temporary wells (G-7-TW, G-12-TW, and G-14-TW) were installed in three of the Geoprobe borings.

4) On September 7, 2012, METCO collected groundwater samples from the temp wells for field and/or laboratory analysis. After sampling, the temp wells were abandoned.

5) On June 11, 2013, METCO supervised the completion of three hollow stem auger borings. After completion, the borings were converted into monitoring wells (MW-1, MW-2, and MW-3). Twelve soil samples were collected for field and/or laboratory analysis. Following completion, the monitoring wells were properly developed.

6) On July 11, 2013, METCO collected groundwater samples for field and/or laboratory analysis from the three monitoring wells (MW-1 thru MW-3) and two private/potable wells (N7302 PW Café and N7298 PW Source). During this round of sampling, the well network was surveyed to feet mean sea level.

7) On October 15, 2013, METCO collected groundwater samples for field and/or laboratory analysis from three monitoring wells (MW-1 thru MW-3) and two private/potable wells (N7302 PW Café and N7298 PW Source). During this round of sampling, slug tests were performed on monitoring wells MW-1, MW-2, and MW-3.

8) On October 31, 2013 DKS Transport Services, LLC picked up and properly disposed of four drums of investigative waste. (*Please note that the investigation was put on hold due to a foreclosure and sheriff's auction of the property. Once purchased the new owners completed the "Agent Status" paperwork and continued working with METCO.*)

9) On April 25, 2017, METCO supervised the completion of two hollow stem auger borings. After completion, the borings were converted into monitoring wells (MW-4 and MW-5). Eight soil samples were collected for field and/or laboratory analysis. Following completion, the monitoring wells were properly developed.

10) On May 4, 2017, METCO collected groundwater samples for field and/or laboratory analysis from five monitoring wells (MW-1 thru MW-5) and two private/potable wells (N7302 PW Café and N7298 PW Source). The two new monitoring wells were also surveyed to feet msl during the sampling event.

11) On July 7, 2017 DKS Transport Services, LLC picked up and properly disposed of two drums of investigative waste.

12) On August 3, 2017, METCO collected groundwater samples for field and/or laboratory analysis from five monitoring wells (MW-1 thru MW-5) and two private/potable wells (N7302 PW Café and N7298 PW Source).

Site Access Problems

The only site access problem encountered during the LUST investigation was the neighbor at N7299 CTH X would not allow access to his property to note the location of his private well.

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 September 5-6, 2012, during the Geoprobe project, fifteen Geoprobe borings (G-1 thru G-15) were completed with fifty-four soil samples collected for field and/or laboratory analysis (PID, Lead, and VOC or PVOC and Naphthalene).

On June 11, 2013, during a Drilling project, three hollow stem auger borings (MW-1, MW-2, and MW-3) were completed with twelve soil samples collected for field and/or laboratory analysis (PID, PVOC, Naphthalene, TCLP-Benzene, and TCLP-Lead).

On April 25, 2017, during a Drilling project, two hollow stem auger borings were completed with eight soil samples collected for field and/or laboratory analysis (PID, PVOC, and Naphthalene).

Soil analytical results are summarized in the Soil Analytical Results Tables with exceedances of the NR720 Groundwater RCL's, Non-Industrial 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 September 5-6, 2012, during the Geoprobe project, groundwater samples were collected from nine soil borings (G-1 thru G-6, G-8, G-13, and G-15) for laboratory analysis (PVOC and Naphthalene). Three temporary monitoring wells (G-7-TW, G-12-TW, and G-14-TW) were installed in three of the Geoprobe boring locations.

On September 7, 2012, METCO personnel collected groundwater samples from the three temporary wells for laboratory analysis (PVOC and Naphthalene). After sampling, the temporary wells were abandoned.

On June 11, 2013, during a Drilling Project, three hollow stem auger borings were completed and converted into monitoring wells (MW-1, MW-2, and MW-3). Following completion, the monitoring wells were properly developed.

On July 11, 2013, METCO personnel collected groundwater samples from the three monitoring wells (MW-1 thru MW-3) for laboratory analysis (VOC, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, and Sulfate). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from all sampled wells. During this round of sampling, the well network was surveyed to feet mean sea level.

On October 15, 2013, METCO personnel collected groundwater samples from the three monitoring wells (MW-1 thru MW-3) for laboratory analysis (Dissolved Lead, PVOC, and Naphthalene). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from all sampled wells. During this round of sampling, slug tests were performed on monitoring wells MW-1, MW-2, and MW-3.

On April 25, 2017, during a Drilling Project, two hollow stem auger borings were completed and converted into monitoring wells (MW-4 and MW-5). Following completion, the monitoring wells were properly developed.

On May 4, 2017, METCO personnel collected groundwater samples from five monitoring wells (MW-1 thru MW-5) for laboratory analysis (VOC, Dissolved Lead, and/or PVOC and Naphthalene). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from all sampled wells.

On August 3, 2017, METCO personnel collected groundwater samples from five monitoring wells (MW-1 thru MW-5) for laboratory analysis (Dissolved Lead, PVOC, and Naphthalene). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen, and specific conductance were collected from all sampled wells.

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

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

Potable Well Sampling Data

On September 5-6, 2012, METCO personnel collected a groundwater sample from the on-site potable well (N7298 PW Source) for laboratory analysis (VOC's).

On July 11, 2013, METCO personnel collected groundwater samples from two private/potable wells (N7302 PW Café and N7298 PW Source) for laboratory analysis (VOC's).

On October 15, 2013, METCO personnel collected groundwater samples from two private/potable wells (N7302 PW Café and N7298 PW Source) for laboratory analysis (VOC's).

On May 4, 2017, METCO personnel collected groundwater samples from two private/potable wells (N7302 PW Café and N7298 PW Source) for laboratory analysis (VOC's).

On August 3, 2017, METCO personnel collected groundwater samples from two private/potable wells (N7302 PW Café and N7298 PW Source) for laboratory analysis (VOC's).

Laboratory Certification

Synergy Environmental Lab

Wisconsin Lab Certification #445037560

3.3 Permeability and Hydraulic Conductivity

On October 15, 2013, METCO conducted slug tests on monitoring wells MW-1, MW-2, and MW-3. The slug test data was evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc.

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

Monitoring Well MW-1
Hydraulic Conductivity (K) = 3.29×10^{-5} cm/sec

Transmissivity = 6.97×10^{-3} cm^2/sec
Flow Velocity (V=KI/n) = 1.385 m/yr

Monitoring Well MW-2
Hydraulic Conductivity (K) = 1.76×10^{-3} cm/sec
Transmissivity = 3.85×10^{-1} cm^2/sec
Flow Velocity (V=KI/n) = 73.988 m/yr

Monitoring Well MW-3
Hydraulic Conductivity (K) = 3.78×10^{-5} cm/sec
Transmissivity = 1.08×10^{-2} cm^2/sec
Flow Velocity (V=KI/n) = 1.590 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells 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

Geologic material in the area of investigation generally consists of interbedded layers of sand, silty/clayey sand, sandy silt/clay, and clay with gravel present in some locations from around ground surface to at least 28 feet bgs. Fill material consisting of sand, gravel, and concrete was encountered in the area of the removed 500-gallon gasoline UST from ground surface to depths ranging from 2 to 6 feet bgs.

Bedrock was not encountered as part of this site investigation; however Cambrian Sandstone is estimated to exist at approximately 25-50 feet bgs.

According to data collected from the monitoring wells, the depth to groundwater ranges from 4.95 to 9.46 feet bgs depending on well location and time of year.

Based on watertable measurements collected during the four groundwater sampling events, local horizontal groundwater flow in the immediate area of the subject property is generally toward the northeast to east-northeast.

An area of unsaturated soil contamination, which exceeds the NR720 Non-Industrial Direct Contact and Groundwater RCL values, exists in the area of the former dispenser. Contamination exceeding the NR720 Non-Industrial Direct Contact RCL's is present in soil boring G-1 for Benzene, Ethylbenzene, Naphthalene, 1,2,4-Trimethylbenzene, and Xylene. This area appears to measure up to 12 feet long, 12 feet wide, and up to 4 feet thick.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the former dispenser, removed 500-gallon gasoline UST, and removed 1,000-gallon gasoline UST and dispenser along the western side on the on-site building. Contamination exceeding the NR720 Groundwater RCL's is present in soil borings G-1, G-2, G-3, G-11, and MW-3 for Benzene, Ethylbenzene, Naphthalene, Toluene, Trimethylbenzenes, and Xylene. This area appears to measure up to 74 feet long, 17 feet wide, and up to 7.5 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and PAL has formed at the watertable in the area of the former gasoline dispenser and removed UST systems and has migrated toward the east-northeast. This plume measures approximately 185 feet long and 105 feet wide.

Based on the most recent groundwater analytical results, two monitoring wells (MW-1 and MW-4) currently show NR140 ES exceedances for petroleum compounds (PVOC's and/or Naphthalene). Two monitoring wells (MW-2 and MW-5) showed NR140 PAL exceedances for petroleum compounds. The other monitoring well (MW-3) currently shows no detects for PVOC's or Naphthalene.

The on-site potable well has been sampled 5 times for VOC analysis. The potable well at the café to the north of the subject property has been sampled 4 times for VOC analysis. Lab analysis of the potable wells has shown no detects for VOC's in all of the sampling events.

Based on the receptor survey, groundwater contamination does pose a risk to the nearby private wells, however sampling has not shown any petroleum detects in these wells. The vapor intrusion risk may need to be further investigated due to close-proximity of the contaminant plume to the on-site building. There does not appear to be any risk to any surface waters or risk of contaminant migration along utility corridors.

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

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

3.5 Risk Assessment

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

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

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

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

Based on the NR746.03 definitions, the River Bends Bar site is currently a "high risk" site, because groundwater contamination exceeding the NR140 Enforcement Standard is present within 100 feet of potable wells used to provide water for human consumption.

4.0 CONCLUSION

4.1 Investigation Summary

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined in soil and groundwater (to NR140 PAL) to warrant a completed investigation as defined by the WDNR guidelines and regulations.

4.2 Recommendations

Due to the existing Direct Contact issue, groundwater contaminant trends, on-site and neighboring private wells, and close-proximity of the contamination to the existing structure, the WDNR may require further work prior to site closure. Per WDNR response to this report, METCO will proceed with the project.

5.0 REFERENCES

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

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

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

Hundall S. M. and Skinner E. L., 1973, Water Resources of Wisconsin – Pecatonica - Sugar River Basin, Hydrologic Investigations, Atlas HA-453, U.S. Geological Survey, Washington D.C.

Matsch, C.L. and Ojakangas, R.W., 1982, Minnesota's Geology, Minneapolis, Minnesota.

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

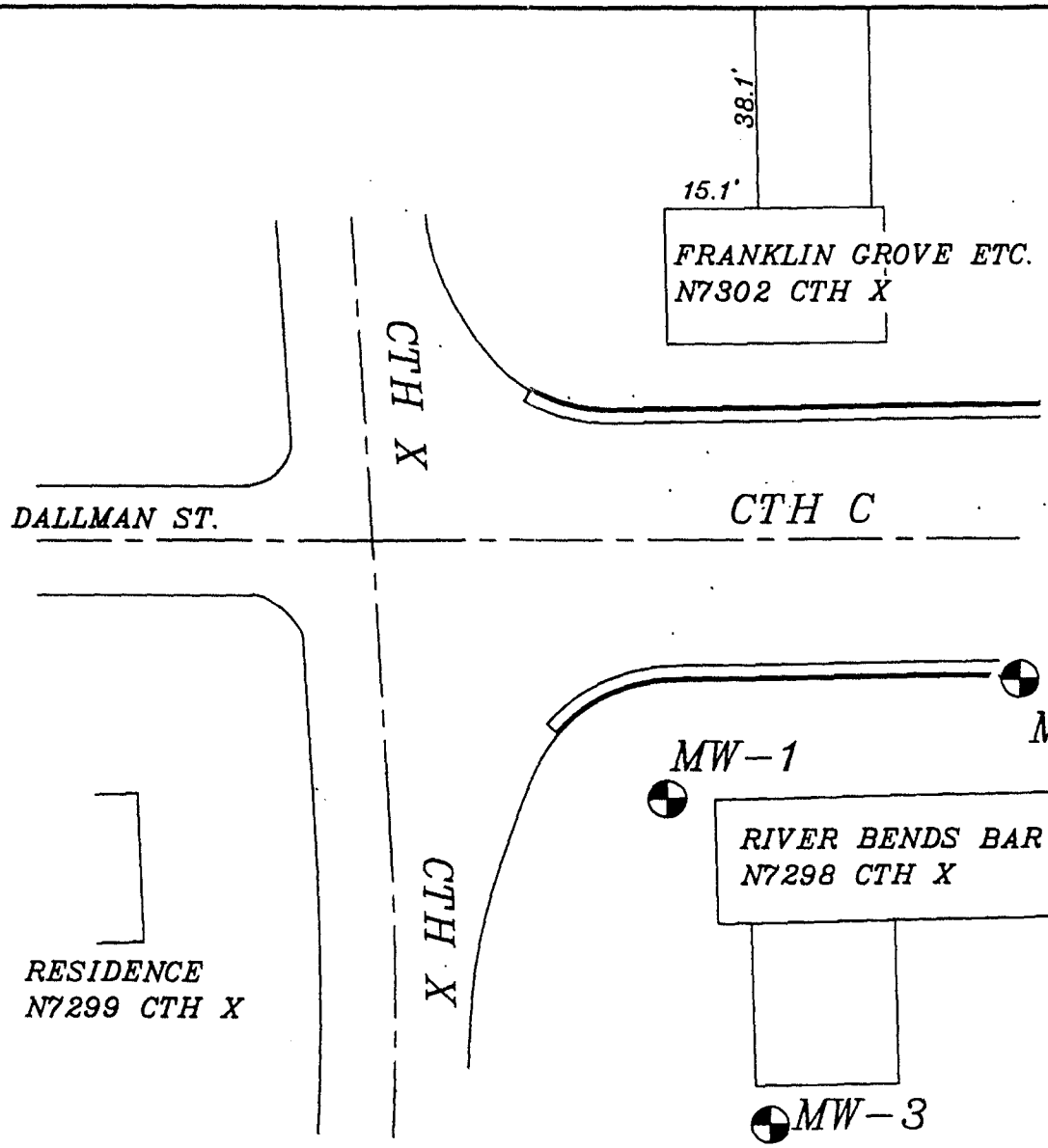
Seamless USGS Topographic Maps on CD-ROM, 2001, National Geographic Holdings, Inc., San Francisco, California.

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 Ron Miller, Tina Klitzke, Town of Brooklyn, Diggers Hotline, Geiss Soil & Samples, LLC, Fauerbach Surveying & Engineering, Range Environmental Drilling, Soil Essentials, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

6.0 FIGURES



KEY

FLUSH TYPE MONITORING WELL AS OF 7-11-13.

N

SCALE 1" = 30'

0' 30' 60'

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

MW-1	TW =	842.25'
	TC =	841.81'
MW-2	TW =	839.80'
	TC =	839.57'
MW-3	TW =	840.86'
	TC =	840.56'

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

7-13-13

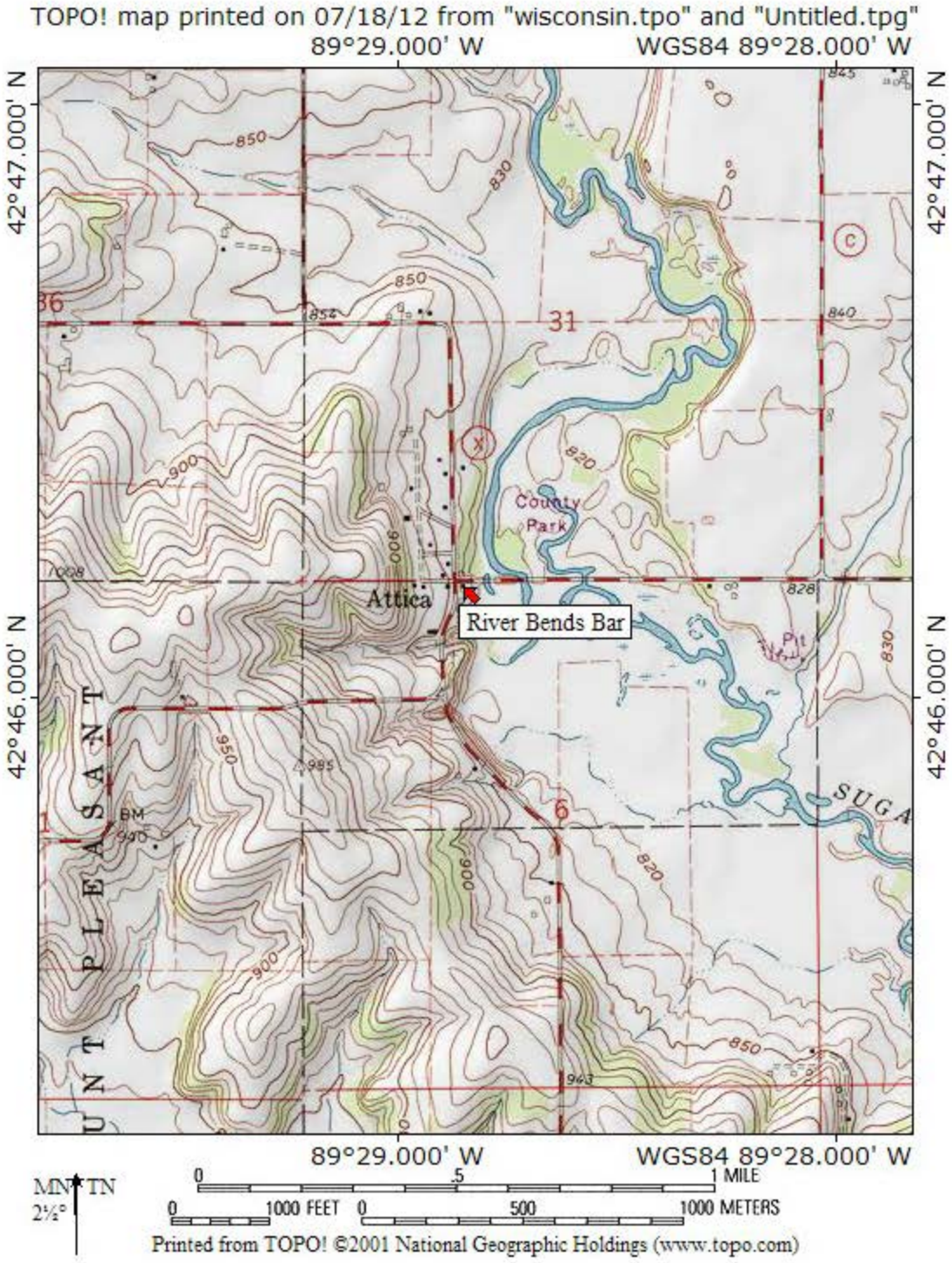
DRAWN BY: G.FAUERBACH DATE: 7-11-13 FIELD DWG. NO.: 52813	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: RIVER BENDS BAR N7298 CTH X ALBANY, WI 53502	SHEET NAME LOCATION MAP	PAGE 1 OF 1

WELL	GREEN COUNTY COORD. SYSTEM NAD83 (NSRS2007) NORTH	EAST	TOP OF WELL ELEVATION (NAVD 88)	TOP OF PVC CASING ELEVATION (NAVD 88)
MW-1	198796.42	654131.32	842.25'	841.81'
MW-2	198816.27	654188.77	839.80'	839.57'
MW-3	198742.71	654147.33	840.86'	840.56'

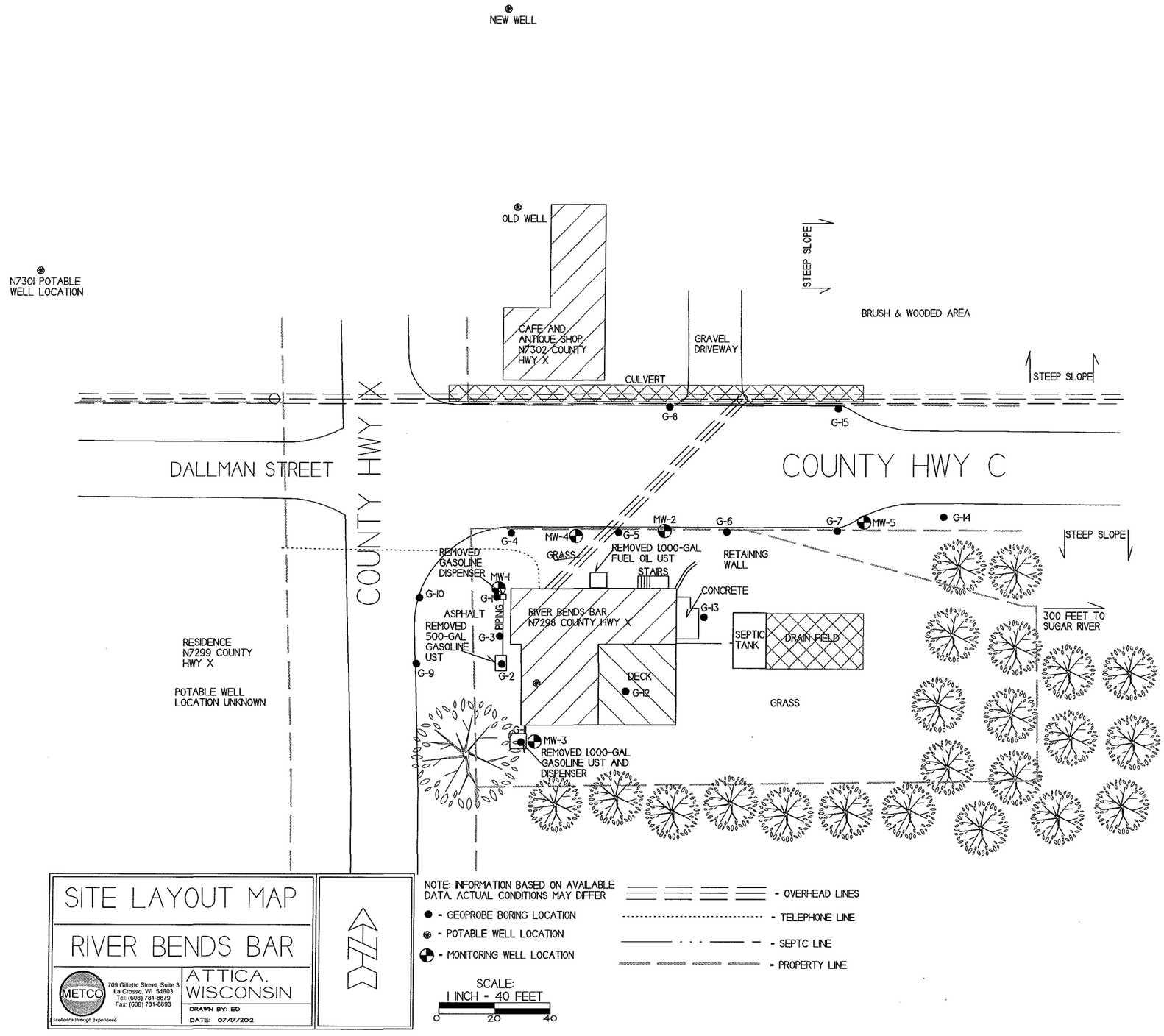
WISCONSIN
GREGORY A. FAUERBACH S-2169 HILLSBORO,
LAND SURVEYOR

7-13-13

DRAWN BY: G.FAUERBACH DATE: 7-11-13 FIELD DWG. NO.: 52813	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: RIVER BENDS BAR N7298 CTH X ALBANY, WI 53502	SHEET NAME DATA SHEET	PAGE 1 OF 1



SITE LOCATION MAP – CONTOUR INTERVAL 10 FEET
RIVER BENDS BAR – ATTICA, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM



SITE LAYOUT MAP

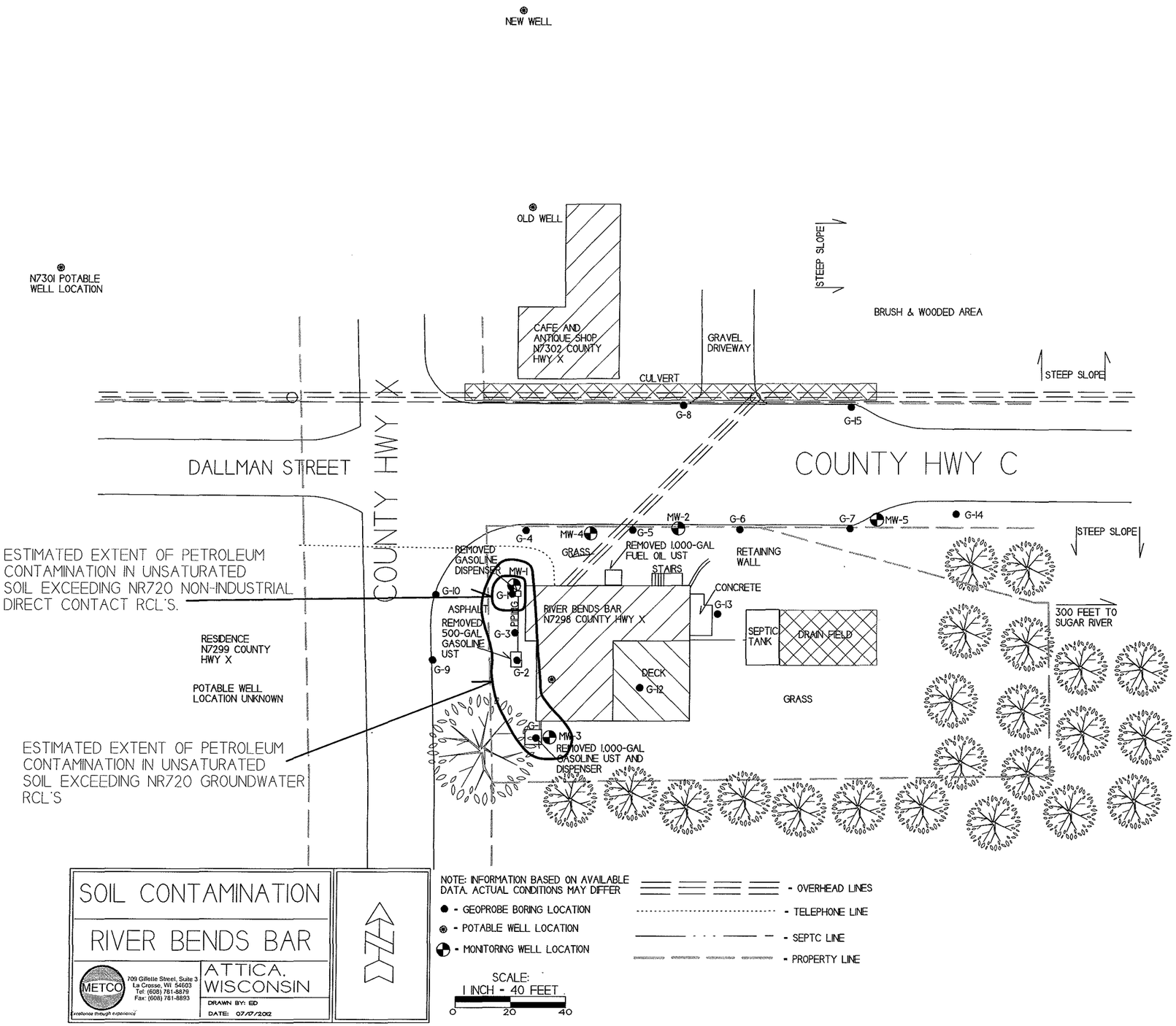
RIVER BENDS BAR

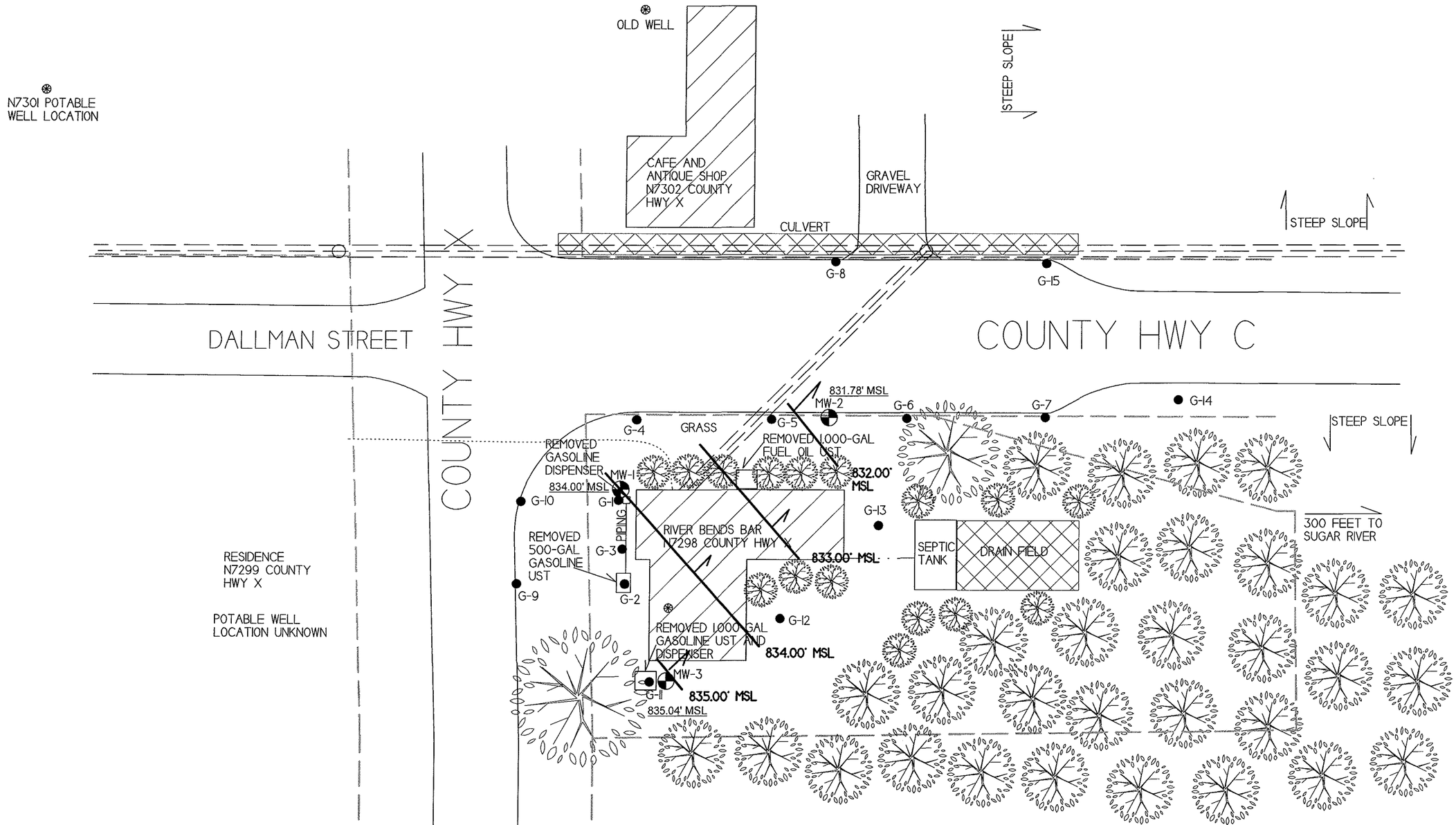
ATTICA, WISCONSIN

METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8870
Fax: (608) 781-8893
Excellence through experience

DRAWN BY: ED

DATE: 07/07/2012


NEW WELL
OLD WELL
N7301 POTABLE WELL LOCATION
CAFE AND ANTIQUE SHOP N7302 COUNTY HWY X
GRAVEL DRIVEWAY
CULVERT
STEEP SLOPE
BRUSH & WOODED AREA
STEEP SLOPE
G-8
G-15
DALLMAN STREET
HWY X
COUNTY HWY C
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S.
RESIDENCE N7299 COUNTY HWY X
POTABLE WELL LOCATION UNKNOWN
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S
REMOVED GASOLINE DISPENSER
MW-1
G-10
G-1
G-3
G-2
G-9
ASPHALT
REMOVED 500-GAL GASOLINE UST
PIPING
RIVER BENDS BAR N7298 COUNTY HWY X
G-4
MW-4
G-5
GRASS
REMOVED 1,000-GAL FUEL OIL UST
STAIRS
MW-2
G-6
RETAINING WALL
CONCRETE
G-13
G-7
MW-5
G-14
STEEP SLOPE
300 FEET TO SUGAR RIVER
SEPTIC TANK
DRAIN FIELD
DECK
G-12
GRASS
G-11
MW-3
REMOVED 1,000-GAL GASOLINE UST AND DISPENSER
SOIL CONTAMINATION
RIVER BENDS BAR
ATTICA, WISCONSIN
DRAWN BY: ED
DATE: 07/17/2012
METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
excellence through experience
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- GEOPROBE BORING LOCATION
- POTABLE WELL LOCATION
- MONITORING WELL LOCATION
- OVERHEAD LINES
- TELEPHONE LINE
- SEPTC LINE
- PROPERTY LINE
SCALE:
1 INCH = 40 FEET
0
20
40



GROUNDWATER FLOW MAP (7/11/2013)

RIVER BENDS BAR

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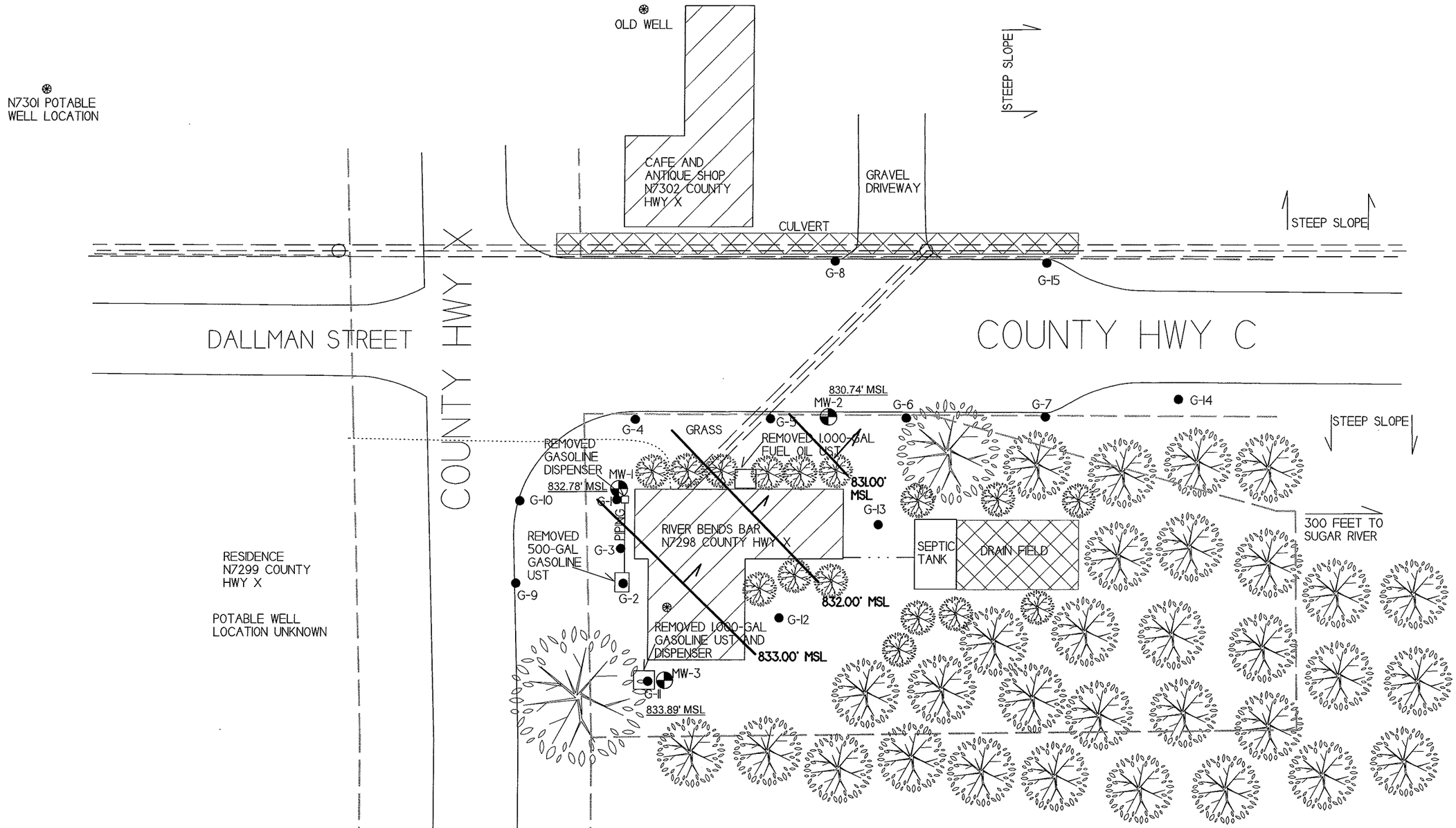
DRAWN BY: ED
DATE: 07/17/2012

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

- ● - GEOPROBE BORING LOCATION
- ⊛ - POTABLE WELL LOCATION
- ◓ - MONITORING WELL LOCATION

SCALE:
1 INCH = 30 FEET
0 15 30

- OVERHEAD LINES
- TELEPHONE LINE
- SEPTC LINE
- PROPERTY LINE
- FLOW DIRECTION ARROW



GROUNDWATER FLOW MAP (10/14/2013)

RIVER BENDS BAR

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ATTICA, WISCONSIN

DRAWN BY: ED

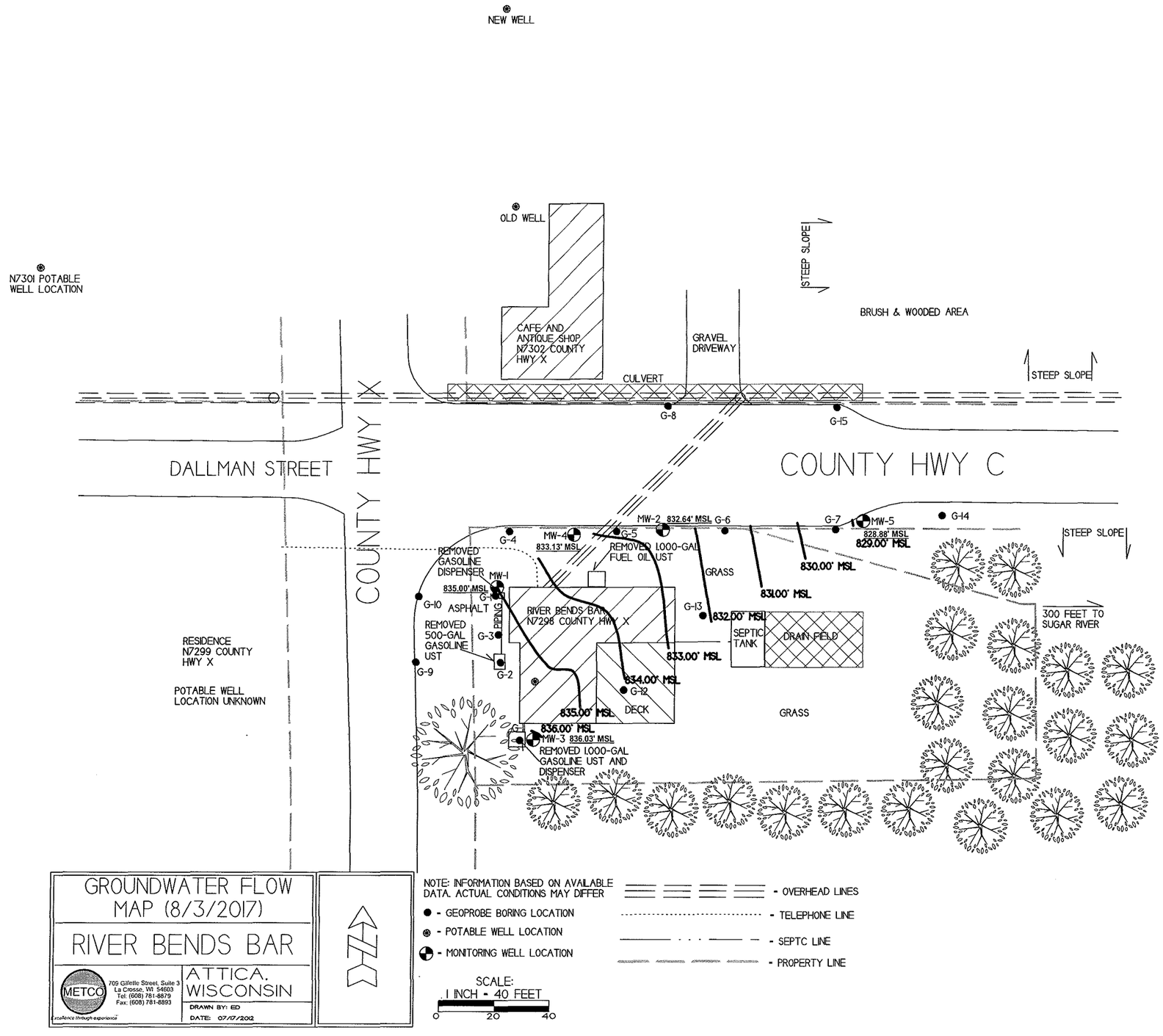
DATE: 07/17/2012

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

- ● - GEOPROBE BORING LOCATION
- ⊛ - POTABLE WELL LOCATION
- ◓ - MONITORING WELL LOCATION

SCALE:
1 INCH = 30 FEET
0 15 30

- OVERHEAD LINES
- TELEPHONE LINE
- SEPTC LINE
- PROPERTY LINE
- FLOW DIRECTION ARROW



GROUNDWATER FLOW MAP (8/3/2017)

RIVER BENDS BAR

ATTICA, WISCONSIN

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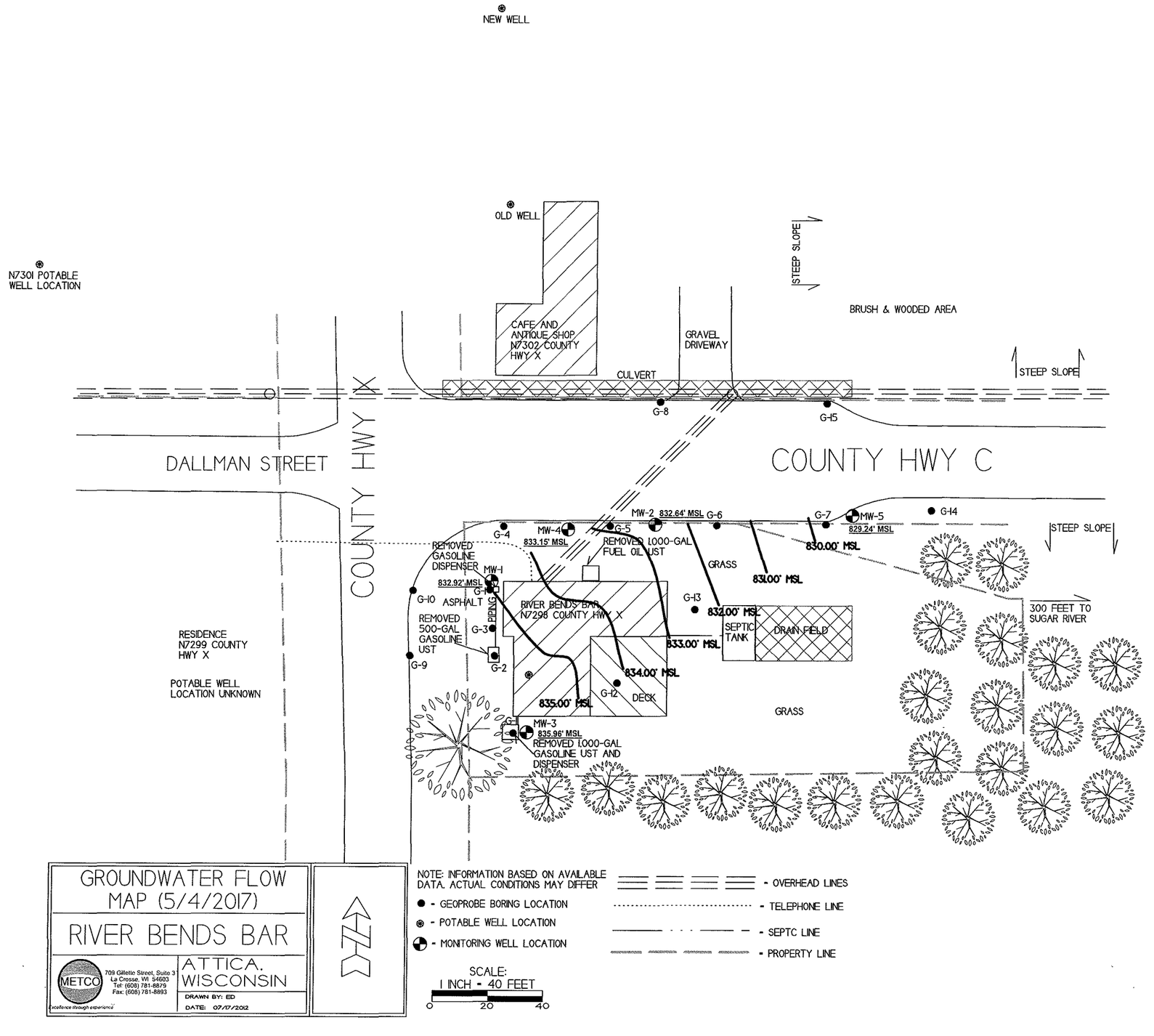
DRAWN BY: ED

DATE: 07/07/2012

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

- ● - GEOPROBE BORING LOCATION
- ⊛ - POTABLE WELL LOCATION
- ◔ - MONITORING WELL LOCATION
- - OVERHEAD LINES
- - TELEPHONE LINE
- - SEPTC LINE
- - PROPERTY LINE

SCALE:
1 INCH = 40 FEET
0 20 40



GROUNDWATER FLOW MAP (5/4/2017)

RIVER BENDS BAR

ATTICA, WISCONSIN

DRAWN BY: ED

DATE: 07/17/2012

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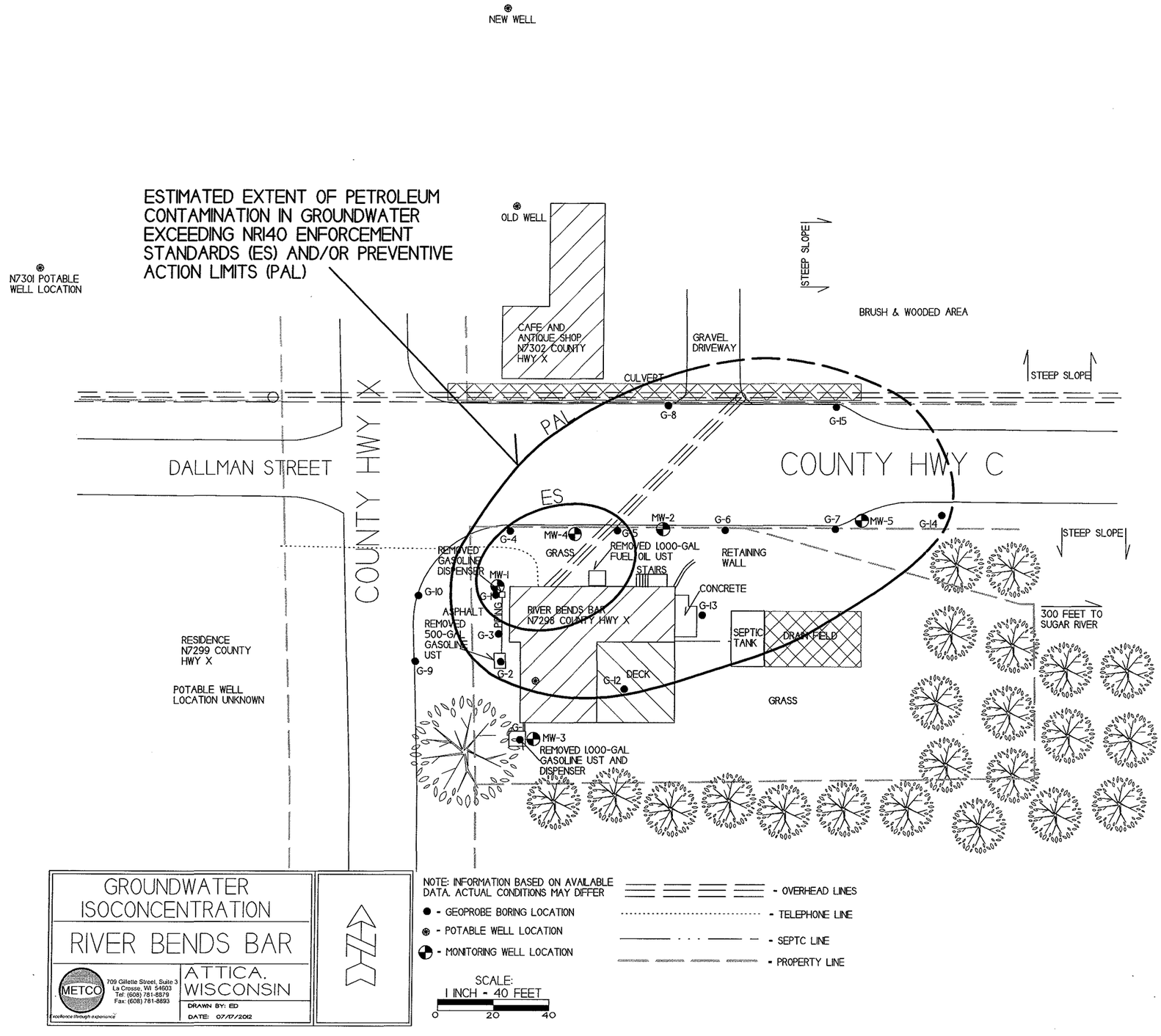

GROUNDWATER ISOCONCENTRATION

RIVER BENDS BAR

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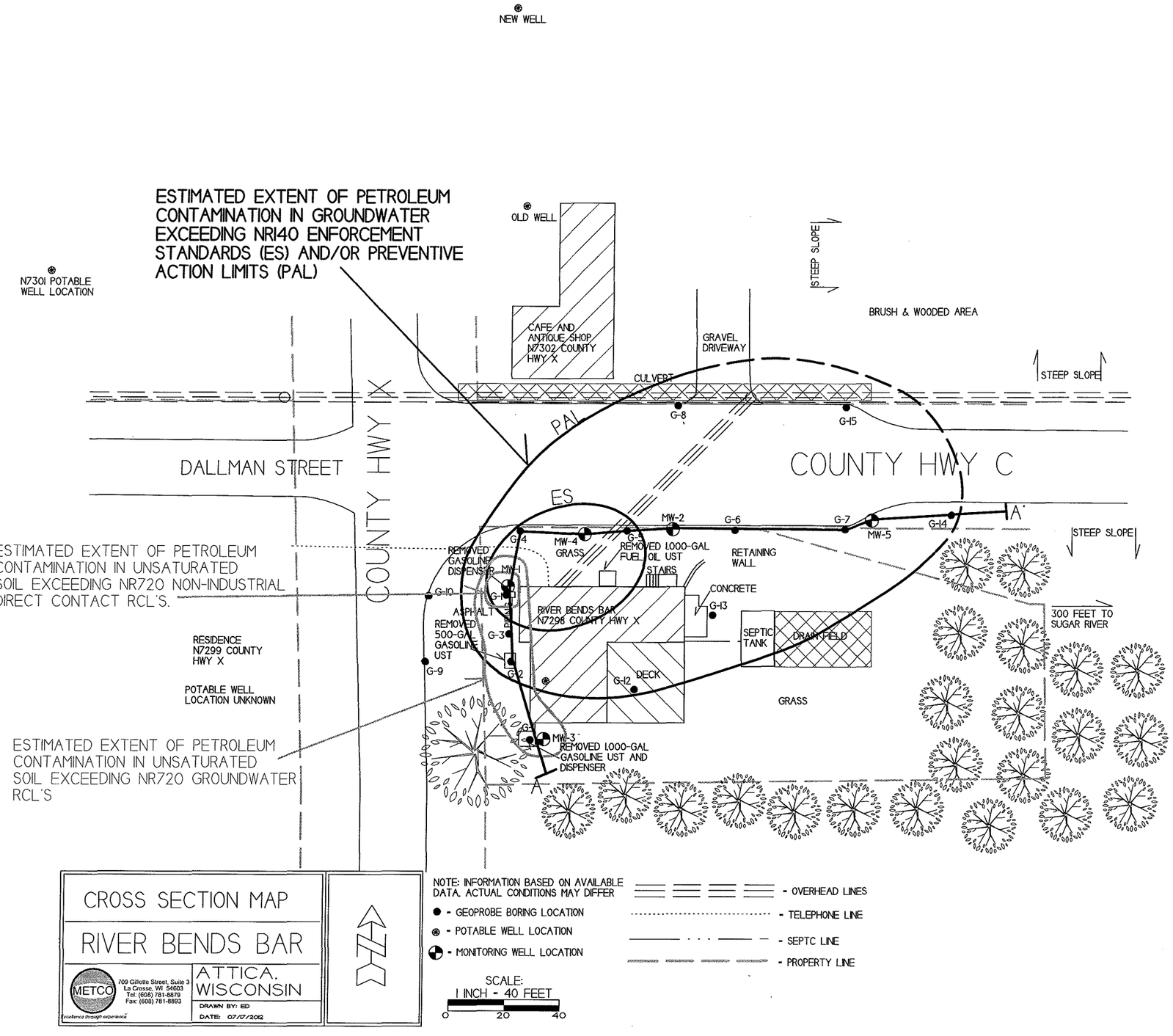
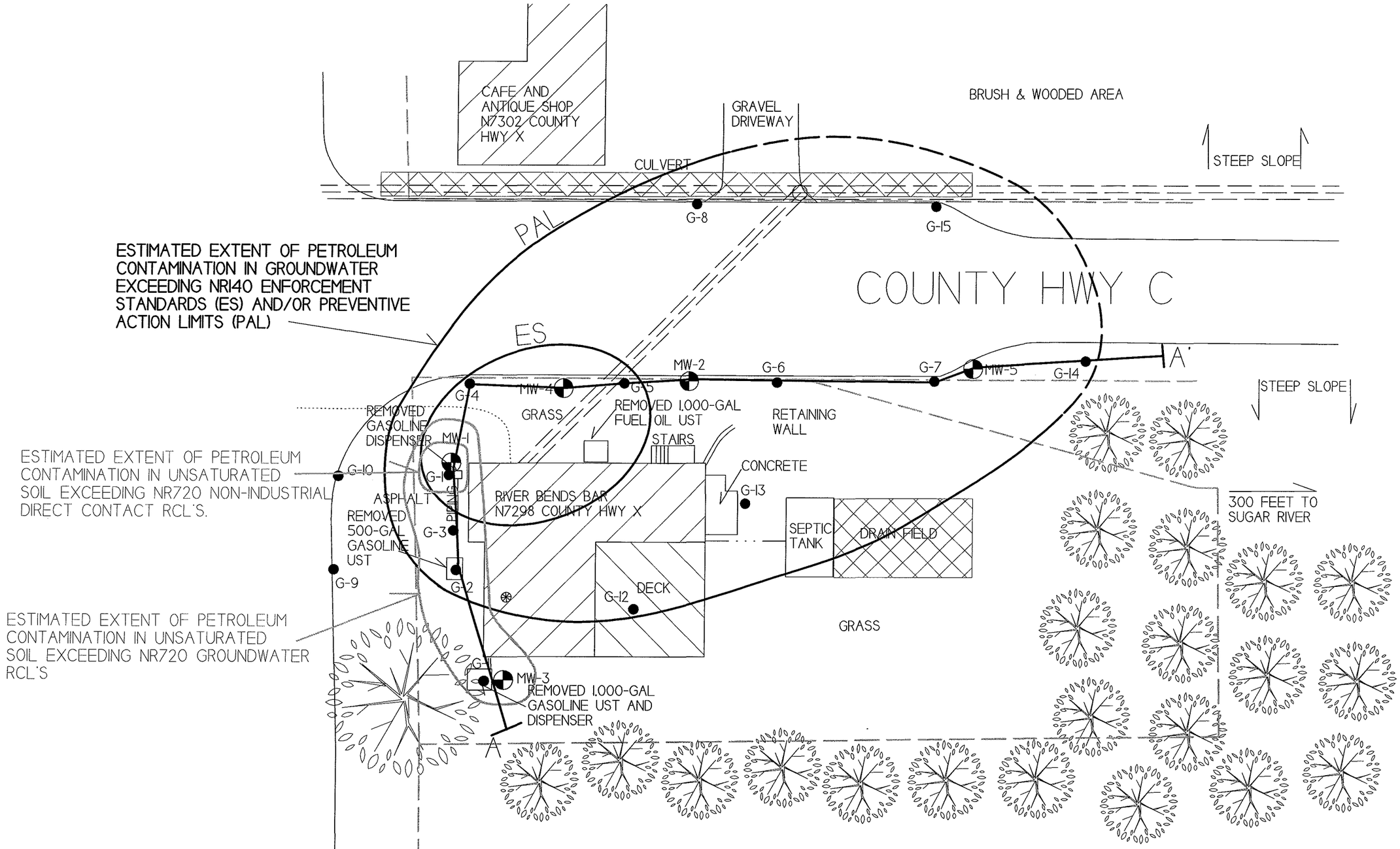
excellence through experience

DRAWN BY: ED

DATE: 07/17/2012


NEW WELL
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING NR140 ENFORCEMENT STANDARDS (ES) AND/OR PREVENTIVE ACTION LIMITS (PAL)
OLD WELL
N7301 POTABLE WELL LOCATION
CAFE AND ANTIQUE SHOP N7302 COUNTY HWY X
GRAVEL DRIVEWAY
STEEP SLOPE
BRUSH & WOODED AREA
CULVERT
STEEP SLOPE
G-8
G-15
PAL
DALLMAN STREET
COUNTY HWY X
COUNTY HWY C
ES
MW-2
G-6
G-7
MW-5
G-14
A'
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S.
G-4
MW-4
GRASS
G-5
REMOVED 1,000-GAL FUEL OIL UST
RETAINING WALL
STAIRS
CONCRETE
REMOVED GASOLINE DISPENSER
MW-1
G-10
G-1
ASPHALT
RIVER BENDS BAR N7298 COUNTY HWY X
G-13
300 FEET TO SUGAR RIVER
REMOVED 500-GAL GASOLINE UST
G-3
SEPTIC TANK
DRAIN FIELD
RESIDENCE N7299 COUNTY HWY X
G-9
G-2
G-12
DECK
GRASS
POTABLE WELL LOCATION UNKNOWN
G-11
MW-3
REMOVED 1,000-GAL GASOLINE UST AND DISPENSER
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN UNSATURATED SOIL EXCEEDING NR720 GROUNDWATER RCL'S
A
CROSS SECTION MAP
RIVER BENDS BAR
ATTICA, WISCONSIN
METCO
709 Gillette Street, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893
Excellence through experience
DRAWN BY: ED
DATE: 07/07/2012
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
- GEOPROBE BORING LOCATION
- POTABLE WELL LOCATION
- MONITORING WELL LOCATION
- OVERHEAD LINES
- TELEPHONE LINE
- SEPTC LINE
- PROPERTY LINE
SCALE:
1 INCH = 40 FEET
0
20
40



CROSS SECTION MAP (CLOSE-UP)

RIVER BENDS BAR

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La Crosse, WI 54603
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Fax: (608) 781-8893
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ATTICA, WISCONSIN

DRAWN BY: ED

DATE: 07/17/2012

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

- ● = GEOPROBE BORING LOCATION
- ⊛ = POTABLE WELL LOCATION
- ◓ = MONITORING WELL LOCATION

SCALE:
1 INCH = 25 FEET
0 25

- = OVERHEAD LINES
- = TELEPHONE LINE
- = SEPTC LINE
- = PROPERTY LINE

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

RIVER BENDS BAR

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ATTICA, WISCONSIN

DRAWN BY: BK 9/5/2017

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

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

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 TO EAST-NORTHEAST.

PID - PHOTO IONIZATION DETECTOR
GRO - GASOLINE RANGE ORGANICS
VOC - VOLATILE ORGANIC COMPOUNDS
L - LEAD
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:
- GEOPROBE PROJECT (4/9-10/13)
- DRILLING PROJECT (4/16-17/14)
- DRILLING PROJECT (5/18/15)
- ROUND 4 GROUNDWATER SAMPLING (8/31/15)

HORIZONTAL SCALE: 1 INCH - 25 FEET
0 25

VERTICAL SCALE: 1 INCH - 5 FEET
5 0

A SOUTH — A' EAST

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL AND GROUNDWATER (NR720 DIRECT CONTACT RCL's)

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL AND GROUNDWATER (NR720 GROUNDWATER RCL's AND/OR NR140 ES AND/OR PAL)

840.00' MSL
835.00' MSL
830.00' MSL
825.00' MSL
820.00' MSL
815.00' MSL

REMOVED 500-GAL GASOLINE UST
REMOVED GASOLINE DISPENSER

300 FEET TO SUGAR RIVER

(ALL-TIME LOW)

FILL MATERIAL

BROWN TO TAN TO ORANGE FINE TO MEDIUM GRAINED SAND

TAN TO GRAY SANDY CLAY

TAN TO BROWN TO GRAY VERY FINE TO MEDIUM GRAINED SAND

TAN TO GRAY TO BROWN SANDY CLAY WITH GRAVEL

BROWN VERY FINE TO MEDIUM GRAINED SAND

MW-3 (8/3/17)	G-2-W (9/6/12)	G-3-W (9/6/12)	G-1-W (9/6/12)	MW-1 (8/3/17)	G-4-W (9/6/12)	MW-4 (8/3/17)	G-5-W (9/6/12)	MW-2 (8/3/17)	G-6-W (9/6/12)	G-7-TW (9/7/12)	MW-5 (8/3/17)	G-14-TW (9/7/12)
<0.9 L	<4.6 B	3.2 B	<4.6 B	15.2 L	<0.46 B	2.8 L	5.0 B	1.2 L	<4.6 B	<4.6 B	<0.9 L	<4.6 B
<0.17 B	38 E	2.11 E	30.5 E	260 B	<0.46 E	340 B	1290 E	0.97 B	145 E	98 E	0.73 B	430 E
<0.2 E	<5.7 MTBE	<0.57 MTBE	<5.7 MTBE	4400 E	<0.57 MTBE	110 E	<5.7 MTBE	10.6 E	<5.7 MTBE	<5.7 MTBE	6.4 E	<5.7 MTBE
<0.82 MTBE	<23 N	8 N	<23 N	<41 MTBE	<2.3 N	46.4 MTBE	340 N	<0.43 MTBE	145 N	51 N	<0.82 MTBE	181 N
<2.17 N	38 T	2.75 T	64 T	850 N	<0.48 T	169 N	79 T	13.1 N	10.4 T	111 T	5.8 N	218 T
<0.67 T	79 TMB	101.5 TMB	9.4-17.3 TMB	6900 T	0.57 TMB	390 T	1950 TMB	1.03 T	1324 TMB	476 TMB	0.69 T	1084 TMB
<2.05 TMB	156 X	28.5 X	81.5 X	4640 TMB	0.45 X	2530 TMB	6130 X	142.9 TMB	963 X	418 X	42.7 TMB	1525 X
<0.95 X				17500 X		310 X		46.8 X			28.04 X	

7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.1 Groundwater Analytical Table
(Geoprobe)
River Bends Bar LUST Site BRRT's# 03-23-198810

Sample ID	Date	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)	Other VOC's (ppb)
G-1-W	09/05/12	NS	NS	NS	<4.6	30.5	<5.7	<23	64	9.4-17.30	81.5	NS
G-2-W	09/05/12	NS	NS	NS	<4.6	38	<5.7	<23	38	79	156	NS
G-3-W	09/06/12	NS	NS	NS	*3.2*	2.11	<0.57	8.0	2.75	*101.5*	28.5	NS
G-4-W	09/06/12	NS	NS	NS	<0.46	<0.46	<0.57	<2.3	<0.48	<1.57	<1.45	NS
G-5-W	09/06/12	NS	NS	NS	**5.0**	**1290**	<5.7	**340**	79	**1950**	**6130**	NS
G-6-W	09/06/12	NS	NS	NS	<4.6	*145*	<5.7	**145**	10.4	**1324**	*963*	NS
G-8-W	09/06/12	NS	NS	NS	*1.55*	14.2	<0.57	*10.9*	6.1	*104.7*	63.7	NS
G-13-W	09/06/12	NS	NS	NS	<0.46	<0.46	<0.57	<2.3	0.99	<1.57	<1.45	NS
G-15-W	09/06/12	NS	NS	NS	**30.4**	**1310**	<5.7	**192**	*274*	**786**	**5480**	NS
G-7-TW	09/07/12	NS	NS	NS	<4.6	98	<5.7	*51*	11.1	*476*	*418*	NS
G-12-TW	09/07/12	NS	NS	NS	*0.64*	0.50	<0.57	<2.3	1.16	<1.57	<1.45	NS
G-14-TW	09/07/12	NS	NS	NS	<4.6	*430*	<5.7	**181**	21.8	**1084**	*1525*	NS
												NS
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	

NS = Not Sampled

A.1 Groundwater Analytical Table
River Bends Bar LUST Site BRRT's# 03-23-198810

Well Sampling Conducted on:

VOC's	9/6/2012	07/11/13	07/11/13	07/11/13	07/11/13	07/11/13	10/14/13	10/14/13	05/04/17	05/04/17	05/04/17	05/04/17	08/03/17	08/03/17	ENFORCE MENT	*PREVENTIVE ACTION*
	N7298				N7298	N7302 Café	N7298	N7302 Café			N7298	N7302 Café	N7298	N7302 Café	STANDARD = ES – Bold	*LIMIT = PAL - Italics*
Well Name	**Source**	**MW-1**	**MW-2**	**MW-3**	**Source**	**(old)**	**Source**	**(old)**	**MW-4**	**MW-5**	**Source**	**(new)**	**Source**	**(new)**		
Lead, dissolved/ppb	NS	**33.4**	*5.8*	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	**15.7**	< 0.9	NS	NS	NS	NS	**15**	*1.5*
Benzene/ppb	< 0.24	**620**	< 12	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	**85**	*0.99*	< 0.17	< 0.17	< 0.17	< 0.17	**5**	*0.5*
Bromobenzene/ppb	< 0.31	< 16	< 16	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 4.3	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	==	==
Bromodichloromethane/ppb	< 0.33	< 18.5	< 18.5	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 3.1	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	==	==
Bromoform/ppb	< 0.33	< 17.5	< 17.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 4.9	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	==	==
tert-Butylbenzene/ppb	< 0.61	< 18	< 18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	6.3 "J"	0.73 "J"	< 0.39	< 0.39	< 0.39	< 0.39	==	==
sec-Butylbenzene/ppb	< 0.47	45 "J"	< 16.5	4.5	< 0.33	< 0.33	< 0.33	< 0.33	18.4	1.3	< 0.24	< 0.24	< 0.24	< 0.24	==	==
n-Butylbenzene/ppb	< 0.25	238	94	16.2	< 0.35	< 0.35	< 0.35	< 0.35	74	2.96	< 0.34	< 0.34	< 0.34	< 0.34	==	==
Carbon Tetrachloride/ppb	< 1.1	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	**5**	*0.5*
Chlorobenzene/ppb	< 0.39	< 12	< 12	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 2.7	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	==	==
Chloroethane/ppb	< 0.32	< 31.5	< 31.5	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	==	==
Chloroform/ppb	< 0.3	< 14	< 14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 9.6	< 0.96	< 0.96	< 0.96	< 0.96	< 0.96	**6**	*0.6*
Chloromethane/ppb	< 0.25	< 40.5	< 40.5	< 0.81	< 0.81	< 0.81	< 0.81	< 0.81	< 13	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	==	==
2-Chlorotoluene/ppb	< 0.39	< 10.5	< 10.5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 3.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	==	==
4-Chlorotoluene/ppb	< 0.21	< 10.5	< 10.5	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,2-Dibromo-3-chloropropane/ppb	< 0.33	< 44	< 44	< 0.88	< 0.88	< 0.88	< 0.88	< 0.88	< 18.8	< 1.88	< 1.88	< 1.88	< 1.88	< 1.88	==	==
Dibromochloromethane/ppb	< 0.12	< 11	< 11	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	==	==
1,4-Dichlorobenzene/ppb	< 0.22	< 15	< 15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
1,3-Dichlorobenzene/ppb	< 0.34	< 14	< 14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	==	==
1,2-Dichlorobenzene/ppb	< 0.3	< 18	< 18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 3.4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	==	==
Dichlorodifluoromethane/ppb	< 0.38	< 22	< 22	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 3.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	**1000**	*200*
1,2-Dichloroethane/ppb	< 0.37	< 20.5	< 20.5	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**5**	*0.5*
1,1-Dichloroethane/ppb	< 0.42	< 15	< 15	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
1,1-Dichloroethene/ppb	< 0.38	< 20	< 20	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 4.6	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	==	==
cis-1,2-Dichloroethene/ppb	< 0.35	< 19	< 19	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 4.1	< 0.41	< 0.41	< 0.41	< 0.41	< 0.41	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 1.9	< 17.5	< 17.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,2-Dichloropropane/ppb	< 0.21	< 16	< 16	< 0.32	< 0.32	< 0.32	< 0.32	< 0.32	< 3.9	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	==	==
2,2-Dichloropropane/ppb	< 0.37	< 18	< 18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NS	NS	NS	NS	NS	NS	==	==
1,3-Dichloropropane/ppb	< 0.25	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 4.9	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	==	==
trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	NS	NS	< 4.2	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	NS	NS	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	==	==
Di-isopropyl ether/ppb	< 0.2	< 11.5	< 11.5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 2.6	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	==	==
EDB (1,2-Dibromoethane)/ppb	< 0.27	< 22	< 22	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 3.4	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	**0.05**	*0.005*
Ethylbenzene/ppb	< 0.31	**5000**	122	81	< 0.55	< 0.55	< 0.55	< 0.55	*480*	6.3	< 0.2	< 0.2	< 0.2	< 0.2	**700**	*140*
Hexachlorobutadiene/ppb	< 0.26	< 75	< 75	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 14.7	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	==	==
Isopropylbenzene/ppb	< 0.39	248	76	17	< 0.3	< 0.3	< 0.3	< 0.3	112	8.2	< 0.29	< 0.29	< 0.29	< 0.29	==	==
p-Isopropyltoluene/ppb	< 0.33	23 "J"	30 "J"	2.77	< 0.31	< 0.31	< 0.31	< 0.31	11.2	2.77	< 0.28	< 0.28	< 0.28	< 0.28	==	==
Methylene chloride/ppb	< 0.38	< 25	< 25	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 9.4	< 0.94	< 0.94	< 0.94	< 0.94	< 0.94	==	==
Methyl tert-butyl ether (MTBE)/ppb	< 0.34	< 11.5	< 11.5	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	< 8.2	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	**60**	*12*
Naphthalene/ppb	< 0.16	**1050**	**900**	*79*	< 1.7	< 1.7	< 1.7	< 1.7	*90*	*12*	< 2.17	< 2.17	< 2.17	< 2.17	**100**	*10*
n-Propylbenzene/ppb	< 0.24	670	203	49	< 0.25	< 0.25	< 0.25	< 0.25	340	6.5	< 0.19	< 0.19	< 0.19	< 0.19	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.39	< 22.5	< 22.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 6.9	< 0.69	< 0.69	< 0.69	< 0.69	< 0.69	==	==
1,1,1,2-Tetrachloroethane/ppb	< 0.4	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 4.7	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	==	==
Tetrachloroethene (PCE)/ppb	< 0.39	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 4.8	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
Toluene/ppb	< 0.14	**10000**	< 34.5	17.2	< 0.69	< 0.69	< 0.69	< 0.69	*209*	1.31 "J"	< 0.67	< 0.67	< 0.67	< 0.67	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 0.4	< 49	< 49	< 0.98	< 0.98	< 0.98	< 0.98	< 0.98	< 12.9	< 1.29	< 1.29	< 1.29	< 1.29	< 1.29	==	==
1,2,3-Trichlorobenzene/ppb	< 0.39	< 90	< 90	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 8.3	< 0.83	< 0.83	< 0.83	< 0.83	< 0.83	==	==
1,1,1-Trichloroethane/ppb	< 0.4	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 3.5	< 0.35	< 0.35	< 0.35	< 0.35	< 0.35	==	==
1,1,2-Trichloroethane/ppb	< 0.38	< 17	< 17	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 6.5	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	==	==
Trichloroethene (TCE)/ppb	< 0.57	< 16.5	< 16.5	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	< 4.5	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**5**	*0.5*
Trichlorofluoromethane/ppb	< 0.3	< 35.5	< 35.5	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	< 6.4	< 0.64	< 0.64	< 0.64	< 0.64	< 0.64	==	==
1,2,4-Trimethylbenzene/ppb	< 0.15	**4700**	**1610**	*340*	< 2.2	< 2.2	< 2.2	< 2.2	**1870**	*50*	< 1.14	< 1.14	< 1.14	< 1.14		
1,3,5-Trimethylbenzene/ppb	< 0.092	**1240**	**420**	*112*	< 1.4	< 1.4	< 1.4	< 1.4	**590**	*52*	< 0.91	< 0.91	< 0.91	< 0.91	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 0.18	< 9	< 9	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 1.9	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	==	==
m&p-Xylene/ppb	< 0.65	**14200**	*550*	*510*	< 0.69	< 0.69	< 0.69	< 0.69	*1470*	92	< 1.56	< 1.56	< 1.56	< 1.56		
o-Xylene/ppb	< 0.32	**5500**	*163*	*224*	< 0.63	< 0.63	< 0.63	< 0.63	*500*	16.3	< 0.39	< 0.39	< 0.39	< 0.39	**Total Xylenes 2000**	*Total Xylenes 400*

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
(ppb) = parts per billion
(ppm) = parts per million

A.1 Groundwater Analytical Table
River Bends Bar LUST Site BRRT's# 03-23-198810

Well MW-1
PVC Elevation = 841.81 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	834.00	7.81	**33.4**	**620**	**5000**	<11.5	**1050**	**10000**	**5940**	**19700**
10/15/13	832.78	9.03	**20.2**	**890**	**3600**	<18.5	**680**	**7200**	**3120**	**13200**
05/04/17	834.92	6.89	**17.9**	**330**	**3050**	<8.6	**600**	**4900**	**3110**	**12700**
08/03/17	835.00	6.81	**15.2**	**260**	**4400**	<41	**850**	**6900**	**4640**	**17500**
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 = 839.57 (feet) (MSL)
Re-surveyed PVC top: 839.23 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	831.78	7.79	*5.8*	<12	122	<11.5	**900**	<34.5	**2030**	*710*
10/15/13	830.74	8.83	**17.7**	<13.5	*380*	<18.5	**700**	60	**2110**	*1760*
05/04/17	832.64	6.59	<0.9	*1.75*	22.6	<0.43	*38*	2.3	*387*	143
08/03/17	832.64	6.59	1.2	*0.97*	10.6	<0.43	*13.1*	1.03	*142.9*	46.8
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 = 840.56 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	835.04	5.52	<0.7	<0.24	81	<0.23	*79*	17.2	*452*	*734*
10/15/13	833.89	6.67	<0.7	<2.7	114	<3.7	**137**	12.8	**1120**	*929*
05/04/17	835.96	4.60	*3.4*	*0.87*	2.57	<0.43	7.6	<0.33	4.2-4.78	3.5-4.11
08/03/17	836.03	4.53	<0.9	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
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
River Bends Bar LUST Site BRRT's# 03-23-198810

Well MW-4
PVC Elevation = 840.54 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	833.15	7.39	**15.7**	**85**	*480*	<8.2	*90*	*209*	**2460**	*1970*
08/03/17	833.13	7.41	*2.8*	**340**	**1110**	<16.4	**169**	*390*	**2530**	**3110**
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 = 835.62 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	829.24	6.38	<0.9	*0.99*	6.3	<0.82	*12*	1.31	*102*	108.3
08/03/17	828.88	6.74	<0.9	*0.73*	6.4	<0.82	5.8	0.69	42.7	28.04
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).

Private Well – N7298 Source

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
09/06/12	NM	NM	NS	< 0.24	< 0.31	< 0.34	< 0.16	< 0.14	< 0.242	<0.97
07/11/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
10/15/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
05/04/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
08/03/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
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
River Bends Bar LUST Site BRRT's# 03-23-198810

Private Well – N7302 Café (old)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
07/11/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
10/15/13	NM	NM	<0.7	<0.24	<0.55	<0.23	<1.7	<0.69	<3.6	<1.32
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).

Private Well – N7302 Café (new)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
05/04/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
08/03/17	NM	NM	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
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.2. Soil Analytical Table
River Bends Bar LUST Site BRRT's# 03-23-198810

																PVOC		
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 (ppm)	Individual Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	09/05/12	400	34	NS	6400	6	320	<1.250	63	410	490*	163	1400*	NS	5	4.073E+00	5.5E-05
G-1-2	7.5	U	09/05/12	400	NS	NS	6900	4.7	330	<1.250	69	240	540*	182*	1380*	NS			
G-1-3	12.0	S	09/05/12	300	NS	NS	2990	2.84	125	<0.500	21.6	120	180	65	446*	NS			
G-1-4	16.0	S	09/05/12	300	NS	NS	1150	1.92	34	<0.250	9.5	68	57	21.7	128	NS			
G-1-5	20.0	S	09/05/12	400	NS	NS	<10	<0.025	0.061	<0.025	<0.025	0.041	0.130	0.064	0.189	NS			
G-1-6	24.0	S	09/05/12	100	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-7	28.0	S	09/05/12	50	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-1	3.5	U	09/05/12	50	35	NS	<10	<0.025	<0.025	<0.025	<0.025	0.0256	<0.025	<0.025	<0.075	NS	0	0.00E+000	0.0E+00
G-2-2	8.0	U	09/05/12	550	12	NS	1340	<0.089	3.16	<0.120	2.64	<0.500	50	18	13.5	SEE VOC SPREAD-SHEET			
G-2-3	12.0	S	09/05/12	350	NS	NS	175	0.302	0.131	<0.025	<0.025	<0.025	0.320	1.03	0.910	NS			
G-3-1	3.5	U	09/06/12	NS	7.6	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.00E+000	0.0E+00
G-3-2	8.0	U	09/06/12	NS	NS	NS	930	0.400	1.27	<0.250	1.92	0.640	10.5	17.7	9.97	NS			
G-3-3	12.0	S	09/06/12	NS	NS	NS	530	<0.250	0.295	<0.250	<0.250	0.350	5	4.1	2.88	NS			
G-4-1	3.5	U	09/06/12	NS	2.9	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.00E+000	0.0E+00
G-4-2	8.0	U	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-3	12.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-4	20.0	S	09/06/12	NS	NOT SAMPLED											NS			
G-4-5	24.0	S	09/06/12	0	NOT SAMPLED											NS			
G-4-6	28.0	S	09/06/12	0	NOT SAMPLED											NS			
G-5-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-5-2	8.0	U	09/06/12	NS	NOT SAMPLED											NS			
G-5-3	12.0	S	09/06/12	NS	NS	NS	1540	0.430	32	<0.250	9.1	4.2	85	23.7	118.9	NS			
G-6-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-6-2	--		09/06/12	NO RECOVERY												NS			
G-6-3	12.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-7-2	--		09/06/12	NO RECOVERY												NS			
G-7-3	12.0	S	09/06/12	NS	NS	NS	17	<0.025	0.380	<0.025	0.085	0.048	0.830	0.320	1.21	NS			
G-7-4	20.0	S	09/06/12	NS	NOT SAMPLED											NS			
G-8-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-8-2	8.0	U	09/06/12	NS	NOT SAMPLED											NS			
G-8-3	10-15	S	09/06/12	NS	NOT SAMPLED											NS			
G-9-1	3.5	U	09/06/12	NS	10	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.00E+000	0.0E+00
G-9-2	9.0	U	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-9-3	15.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-1	3.5	U	09/06/12	NS	10	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.00E+000	0.0E+00
G-10-2	9.0	U	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-10-3	12.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-1	3.5	U	09/06/12	NS	72	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	1.80E-01	0.0E+00
G-11-2	8.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-11-3	12.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-12-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-12-2	8.0	U	09/06/12	NS	NOT SAMPLED											NS			
G-12-3	12.0	S	09/06/12	NS	NS	NS	<10	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-13-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-13-2	8.0	S	09/06/12	NS	NOT SAMPLED											NS			
G-13-3	12.0	S	09/06/12	NS	NOT SAMPLED											NS			
G-14-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-14-2	8.0	U	09/06/12	NS	NOT SAMPLED											NS			
G14-3	12.0	S	09/06/12	NS	NOT SAMPLED											NS			
G-14-4	15.0	S	09/06/12	NS	NS	NS	32	0.044	0.870	<0.025	1.11	0.042	3.8	1.21	3.044	NS			
G-14-5	16-20	S	09/06/12	NS	NOT SAMPLED											NS			
G-15-1	3.5	U	09/06/12	NS	NOT SAMPLED											NS			
G-15-2	8.0	U	09/06/12	NS	NOT SAMPLED											NS			
G-15-3	12.0	S	09/06/12	NS	NS	NS	34	0.304	2.88	<0.025	0.780	0.133	1.83	0.650	12	NS			
G-15-4	12-16	S	09/06/12	NS	NOT SAMPLED											NS			
MW-1-1	3.5	U	06/11/13	2160	NOT SAMPLED											NS			
MW-1-2	8.0	U	06/11/13	2430	NOT SAMPLED											NS			
MW-1-3	12.0	S	06/11/13	760	NOT SAMPLED											NS			
MW-1-4	12-16	S	06/11/13	710	NOT SAMPLED											NS			
MW-2-1	3.5	U	06/11/13	0	NOT SAMPLED											NS			
MW-2-2	8.0	U	06/11/13	920	NOT SAMPLED											NS			
MW-2-3	12.0	S	06/11/13	750	NOT SAMPLED											NS			
MW-2-4	16.0	S	06/11/13	20	NOT SAMPLED											NS			
MW-3-1	3.5	U	06/11/13	0	NOT SAMPLED											NS			
MW-3-2	7.0	U	06/11/13	15	NS	NS	3500	4	4.3	<1.250	60	2.44	350*	164	283*	NS			
MW-3-3	10.0	S	06/11/13	1100	NS	NS	229	0.510	4.5	<0.250	5.5	0.720	23.2	9	344*	NS			
MW-3-4	16.0	S	06/11/13	980	NOT SAMPLED											NS			
MW-4-1	2.5	U	04/25/17	4.1	NOT SAMPLED											NS			
MW-4-2	8.0	S	04/25/17	13	NOT SAMPLED											NS			
MW-4-3	10.0	S	04/25/17	1497	NS	NS	NS	0.253	32	<0.25	12.1	7.4	90	35	101.5	NS			
MW-4-4	14.0	S	04/25/17	1568	NOT SAMPLED											NS			
MW-5-1	3.5	U	04/25/17	3.6	NOT SAMPLED											NS			
MW-5-2	8.0	S	04/25/17	8.9	NOT SAMPLED											NS			
MW-5-3	12.0	S	04/25/17	36	NOT SAMPLED											NS			
MW-5-4	16.0	S	04/25/17	94.1	NS	NS	NS	<0.025	0.313	<0.025	0.39	0.070	2.81	0.96	0.964	NS			
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL
NS = Not Sampled
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
PID = Photoionization Detector
PVOC's = Petroleum Volatile Organic Compounds
VOC's = Volatile Organic Compounds
Note: Non-Industrial RCLs apply to this site.

NM = Not Measured
ND = No Detects

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

A.2. Pre-remedial Soil Analytical Table
River Bends Bar LUST Site BRRT's# 03-23-198810

Sampling Conducted on September 5, 2012

VOC's		Bold = Groundwater RCL	Underline & Bold = Non-Industrial Direct Contact RCL	(Parenthesis & Bold) = Industrial Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
Sample ID#	G-2-2				
Sample Depth/ft.	8				
Solids Percent	95				
Lead/ppm	12	27	400	(800)	= =
GRO/ppm	1340	= =	= =	= =	= =
Benzene/ppm	<0.89	0.00512	1.6	(7.07)	1820*
Bromobenzene/ppm	< 0.140	= =	342	(679)	= =
Bromodichloromethane/ppm	< 0.120	0.000326	0.418	(1.83)	= =
Bromoform/ppm	< 0.200	0.00233	25.4	(113)	= =
tert-Butylbenzene/ppm	< 0.540	= =	183	(183)	183*
sec-Butylbenzene/ppm	3.7	= =	145	(145)	145*
n-Butylbenzene/ppm	31.3	= =	108	(108)	108*
Carbon Tetrachloride/ppm	< 0.120	0.00388	0.916	(4.03)	= =
Chlorobenzene/ppm	< 0.094	= =	370	(761)	761*
Chloroethane/ppm	< 1.420	0.227	= =	= =	= =
Chloroform/ppm	< 0.460	0.0033	0.454	(1.98)	= =
Chloromethane/ppm	< 2.070	0.0155	159	(669)	= =
2-Chlorotoluene/ppm	< 0.840	= =	= =	= =	= =
4-Chlorotoluene/ppm	< 0.760	= =	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 0.770	0.000173	0.008	(0.092)	= =
Dibromochloromethane/ppm	< 0.095	0.032	8.28	(38.9)	= =
1,4-Dichlorobenzene/ppm	< 0.520	0.144	3.74	(16.4)	= =
1,3-Dichlorobenzene/ppm	< 0.530	1.1528	297	(193)	297*
1,2-Dichlorobenzene/ppm	< 0.510	1.168	376	(376)	376*
Dichlorodifluoromethane/ppm	< 0.120	3.0863	126	(530)	= =
1,2-Dichloroethane/ppm	< 0.130	0.00284	0.652	(2.87)	540*
1,1-Dichloroethane/ppm	< 0.110	0.4834	5.06	(22.2)	= =
1,1-Dichloroethene/ppm	< 0.220	0.00502	320	(1190)	1190*
cis-1,2-Dichloroethene/ppm	<0.140	0.0412	156	(2340)	= =
trans-1,2-Dichloroethene/ppm	<0.220	0.626	1560	(1850)	= =
1,2-Dichloropropane/ppm	< 0.110	0.00332	0.406	(1.78)	= =
2,2-Dichloropropane/ppm	< 0.330	= =	527	(527)	527*
1,3-Dichloropropane/ppm	< 0.110	= =	1490	(1490)	1490*
Di-isopropyl ether/ppm	< 0.470	= =	2260	(2260)	2260*
EDB (1,2-Dibromoethane)/ppm	< 0.170	0.0000282	0.05	(0.221)	= =
Ethylbenzene/ppm	3.16	1.57	8.02	(35.4)	480*
Hexachlorobutadiene/ppm	< 0.950	= =	1.63	(7.19)	= =
Isopropylbenzene/ppm	1.300 "J"	= =	= =	= =	= =
p-Isopropyltoluene/ppm	2.3	= =	162	(162)	162*
Methylene chloride/ppm	< 1.190	0.00256	61.8	(1150)	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.120	0.027	63.8	(282)	8870*
Naphthalene/ppm	2.640 "J"	0.6582	5.52	(24.1)	= =
n-Propylbenzene/ppm	7.3	= =	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	<0.200	0.000156	0.81	(3.6)	= =
1,1,1,2-Tetrachloroethane/ppm	<0.410	0.0534	2.78	(12.3)	= =
Tetrachloroethene (PCE)/ppm	< 0.240	0.00454	33	(145)	= =
Toluene/ppm	< 0.500	1.11	818	(818)	818*
1,2,4-Trichlorobenzene/ppm	< 0.740	0.408	24	(113)	= =
1,2,3-Trichlorobenzene/ppm	< 1.290	= =	62.6	(934)	= =
1,1,1-Trichloroethane/ppm	< 0.110	0.1402	= =	= =	= =
1,1,2-Trichloroethane/ppm	< 0.160	0.00324	1.59	(7.01)	= =
Trichloroethene (TCE)/ppm	< 0.170	0.00358	1.3	(8.41)	= =
Trichlorofluoromethane/ppm	< 0.430	2.2387	1230	(1230)	1230*
1,2,4-Trimethylbenzene/ppm	50	1.38	219	(219)	219*
1,3,5-Trimethylbenzene/ppm	18		182	(182)	182*
Vinyl Chloride/ppm	< 0.160	0.000138	0.07	(2.08)	= =
m&p-Xylene/ppm	9.6	3.96	260	(260)	258*
o-Xylene/ppm	3.9				

NS = not sampled, NM = Not Measured
(ppm) = parts per million
= = No Exceedences
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Note: Non-Industrial RCLs apply to this site.

A.6 Water Level Elevations
River Bends Bar LUST Site BRRT's# 03-23-198810
Albany, Wisconsin

	MW-1	MW-2	MW-3	MW-4	MW-5
Ground Surface (feet msl)	842.24	839.60	840.98	840.93	836.04
PVC top (feet msl)	841.81	839.57	840.56	840.54	835.62
Re-surveyed 5-4-17 PVC top (feet msl)		839.23			
Well Depth (feet)	16.00	16.00	16.00	15.00	14.00
Top of screen (feet msl)	836.24	833.60	834.98	835.93	832.04
Bottom of screen (feet msl)	826.24	823.60	824.98	825.93	822.04
Depth to Water From Top of PVC (feet)					
07/11/13	7.81	7.79	5.52	NI	NI
10/15/13	9.03	8.83	6.67	NI	NI
05/04/17	6.89	6.59	4.60	7.39	6.38
08/03/17	6.81	6.59	4.53	7.41	6.74
Depth to Water From Ground Surface (feet)					
07/11/13	8.24	7.82	5.94	NI	NI
10/15/13	9.46	8.86	7.09	NI	NI
05/04/17	7.32	6.62	5.02	7.78	6.80
08/03/17	7.24	6.62	4.95	7.80	7.16
Groundwater Elevation (feet msl)					
07/11/13	834.00	831.78	835.04	NI	NI
10/15/13	832.78	830.74	833.89	NI	NI
05/04/17	834.92	832.64	835.96	833.15	829.24
08/03/17	835.00	832.64	836.03	833.13	828.88

Note: Elevations are presented in feet mean sea level (msl).

A.7 Other
Groundwater NA Indicator Results
River Bends Bar LUST Site BRRT's# 03-23-198810

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)
07/11/13	0.08	6.95	-53	13.4	1664	<0.1	7.75	0.97	**1120**
10/15/13	0.15	6.9	-77	14.6	1372	NS	NS	NS	NS
05/04/17	1.03	6.97	171	10.6	1529	NS	NS	NS	NS
08/03/17	0.95	6.88	-64	16.6	1433	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
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)
07/11/13	0.14	6.79	-42	14.8	688	0.57	12.2	0.74	**678**
10/15/13	0.21	6.8	-87	14.5	1592	NS	NS	NS	NS
05/04/17	1.46	7.12	211	10.4	633	NS	NS	NS	NS
08/03/17	1.92	6.74	69	16.3	1389	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
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)
07/11/13	3.27	7.00	82	12.7	634	*5.45*	19.8	<0.06	**394**
10/15/13	0.44	6.91	-13	13.8	746	NS	NS	NS	NS
05/04/17	1.87	6.86	269	10.9	1426	NS	NS	NS	NS
08/03/17	2.60	6.56	97	16.0	479	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
Note: Elevations are presented in feet mean sea level (msl).

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
05/04/17	1.63	7.05	313	10.2	838	NS	NS	NS	NS
08/03/17	3.68	7.59	103	15.9	416	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
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)
05/04/17	2.63	6.5	369	10.6	1707	NS	NS	NS	NS
08/03/17	5.72	7.36	259	15.6	827	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
Note: Elevations are presented in feet mean sea level (msl).

8.0 PHOTOS

Photos

Photo #1: Looking west at the on-site building (pre-renovation).

Photo #2: Looking northeast at the on-site building (pre-renovation).

Photo #3: Looking east at County Highway C and north portion of property (pre-renovation).

Photo #4: Looking northeast at the west facing side of the on-site building (pre-renovation).

Photo #5: Looking southeast at the on-site building (post-renovation).

Photo #6: Looking west at the back of the on-site building (post-renovation).

Photo #7: Looking south at the asphalt parking lot on the western side of the building (post-renovation).

Photo #8: Looking north west at the on-site building and onto County Highway C (post-renovation).

APPENDIX A/ METHODS OF INVESTIGATION

Geoprobe Project

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

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

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

Geoprobe Soil Sampling

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

Geoprobe Groundwater Sampling

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

Drilling Project

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

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

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

Each well was alternately surged and purged by METCO personnel with a bottom loading, disposable, polyethylene bailer for 15-20 minutes to remove fines from the well screen. Approximately 10-80 gallons of groundwater was then removed with a small electrical submersible pump. Well Development Forms are presented in Appendix C.

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

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

Sample Preparation

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

Field Sampling and Transportation Quality Control

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

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

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

Laboratory Quality Control

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

Investigative Wastes

On October 31, 2014, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of three drums of soil cuttings and one drum of purge water at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.

On July 7, 2016, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of two drums of soil cuttings at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

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

RIVER BENDS BAR
RON MILLER
N7298 COUNTY ROAD X
ALBANY, WI 53502

Report Date *19-Sep-12*

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246A
Sample ID MEOH BLK
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246B
Sample ID TB
Sample Matrix Water
Sample Date 9/5/2012

	Result	Units	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		9/11/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/11/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/11/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/11/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/11/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246C
Sample ID G-1-1
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	34	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	6400	mg/kg	80	260	50	GRO95/8021		9/13/2012	CJR	1
Benzene	6000	ug/kg	145	465	50	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	320000	ug/kg	130	410	50	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		9/13/2012	CJR	1
Naphthalene	63000	ug/kg	420	1350	50	GRO95/8021		9/13/2012	CJR	1
Toluene	410000	ug/kg	180	550	50	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	490000	ug/kg	135	430	50	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	163000	ug/kg	150	480	50	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	1010000	ug/kg	260	850	50	GRO95/8021		9/13/2012	CJR	1
o-Xylene	390000	ug/kg	315	1000	50	GRO95/8021		9/13/2012	CJR	1

Lab Code 5024246D
Sample ID G-1-2
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	6900	mg/kg	80	260	50	GRO95/8021		9/13/2012	CJR	1
Benzene	4700	ug/kg	145	465	50	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	330000	ug/kg	130	410	50	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		9/13/2012	CJR	1
Naphthalene	69000	ug/kg	420	1350	50	GRO95/8021		9/13/2012	CJR	1
Toluene	240000	ug/kg	180	550	50	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	540000	ug/kg	135	430	50	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	182000	ug/kg	150	480	50	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	990000	ug/kg	260	850	50	GRO95/8021		9/13/2012	CJR	1
o-Xylene	390000	ug/kg	315	1000	50	GRO95/8021		9/13/2012	CJR	1

Lab Code 5024246E
Sample ID G-1-3
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		9/10/2012	MDK	1
Organic										

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246E
Sample ID G-1-3
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	2990	mg/kg	32	104	20	GRO95/8021		9/14/2012	CJR	1
Benzene	2840	ug/kg	58	186	20	GRO95/8021		9/14/2012	CJR	1
Ethylbenzene	125000	ug/kg	52	164	20	GRO95/8021		9/14/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 500	ug/kg	162	520	20	GRO95/8021		9/14/2012	CJR	1
Naphthalene	21600	ug/kg	168	540	20	GRO95/8021		9/14/2012	CJR	1
Toluene	120000	ug/kg	72	220	20	GRO95/8021		9/14/2012	CJR	1
1,2,4-Trimethylbenzene	180000	ug/kg	54	172	20	GRO95/8021		9/14/2012	CJR	1
1,3,5-Trimethylbenzene	65000	ug/kg	60	192	20	GRO95/8021		9/14/2012	CJR	1
m&p-Xylene	330000	ug/kg	104	340	20	GRO95/8021		9/14/2012	CJR	1
o-Xylene	116000	ug/kg	126	400	20	GRO95/8021		9/14/2012	CJR	1

Lab Code 5024246F
Sample ID G-1-4
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1150	mg/kg	16	52	10	GRO95/8021		9/10/2012	CJR	1
Benzene	1920	ug/kg	29	93	10	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	34000	ug/kg	26	82	10	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/10/2012	CJR	1
Naphthalene	9500	ug/kg	84	270	10	GRO95/8021		9/10/2012	CJR	1
Toluene	68000	ug/kg	36	110	10	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	57000	ug/kg	27	86	10	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	21700	ug/kg	30	96	10	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	92000	ug/kg	52	170	10	GRO95/8021		9/10/2012	CJR	1
o-Xylene	36000	ug/kg	63	200	10	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246G
Sample ID G-1-5
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	61	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	41	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	130	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246G
Sample ID G-1-5
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	64	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	137	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	52	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246H
Sample ID G-1-6
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.4	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246I
Sample ID G-1-7
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.5	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246J
Sample ID G-1-W
Sample Matrix Water
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 4.6	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	30.5	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	< 23	ug/l	23	72	10	GRO95/8021		9/11/2012	CJR	1
Toluene	64	ug/l	4.8	15	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	9.4 "J"	ug/l	7.8	25	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	< 7.9	ug/l	7.9	25	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	52	ug/l	7.1	23	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	29.5	ug/l	7.4	23	10	GRO95/8021		9/11/2012	CJR	1

Lab Code 5024246K
Sample ID G-2-1
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.9	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	35	mg/kg	0.45	1.25	5	6010B		9/17/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	25.6	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246L
Sample ID G-2-2
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	95.0	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	12	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
General										

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246L
Sample ID G-2-2
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Gasoline Range Organics	1340	mg/kg	16	52	10	GRO95/8021		9/10/2012	CJR	1
VOC's										
Benzene	< 89	ug/kg	89	280	10	8260B		9/13/2012	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		9/13/2012	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		9/13/2012	CJR	1
Bromoform	< 200	ug/kg	200	620	10	8260B		9/13/2012	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		9/13/2012	CJR	1
sec-Butylbenzene	3700	ug/kg	510	1620	10	8260B		9/13/2012	CJR	1
n-Butylbenzene	31300	ug/kg	480	1520	10	8260B		9/13/2012	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		9/13/2012	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		9/13/2012	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		9/13/2012	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		9/13/2012	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		9/13/2012	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		9/13/2012	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		9/13/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		9/13/2012	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		9/13/2012	CJR	1
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		9/13/2012	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		9/13/2012	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		9/13/2012	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		9/13/2012	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		9/13/2012	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		9/13/2012	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		9/13/2012	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		9/13/2012	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		9/13/2012	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		9/13/2012	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		9/13/2012	CJR	30
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		9/13/2012	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		9/13/2012	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		9/13/2012	CJR	1
Ethylbenzene	3160	ug/kg	550	1750	10	8260B		9/13/2012	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		9/13/2012	CJR	1
Isopropylbenzene	1300 "J"	ug/kg	530	1680	10	8260B		9/13/2012	CJR	1
p-Isopropyltoluene	2300	ug/kg	450	1430	10	8260B		9/13/2012	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		9/13/2012	CJR	1
Naphthalene	2640 "J"	ug/kg	1070	3400	10	8260B		9/13/2012	CJR	1
n-Propylbenzene	7300	ug/kg	530	1690	10	8260B		9/13/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		9/13/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		9/13/2012	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		9/13/2012	CJR	1
Toluene	< 500	ug/kg	500	1590	10	8260B		9/13/2012	CJR	1
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		9/13/2012	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		9/13/2012	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		9/13/2012	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		9/13/2012	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		9/13/2012	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	50000	ug/kg	800	2530	10	8260B		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	18000	ug/kg	480	1510	10	8260B		9/13/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246L
Sample ID G-2-2
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		9/13/2012	CJR	1
m&p-Xylene	9600	ug/kg	860	2740	10	8260B		9/13/2012	CJR	1
o-Xylene	3900	ug/kg	500	1590	10	8260B		9/13/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			10	8260B		9/13/2012	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			10	8260B		9/13/2012	CJR	1
SUR - Dibromofluoromethane	97	Rec %			10	8260B		9/13/2012	CJR	1
SUR - Toluene-d8	98	Rec %			10	8260B		9/13/2012	CJR	1

Lab Code 5024246M
Sample ID G-2-3
Sample Matrix Soil
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.3	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	175	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	302	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	131	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	320	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	1030	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	350	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	560	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 5024246N
Sample ID G-2-W
Sample Matrix Water
Sample Date 9/5/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 4.6	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	38	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	< 23	ug/l	23	72	10	GRO95/8021		9/11/2012	CJR	1
Toluene	38	ug/l	4.8	15	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	58	ug/l	7.8	25	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	21 "J"	ug/l	7.9	25	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	104	ug/l	7.1	23	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	52	ug/l	7.4	23	10	GRO95/8021		9/11/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246O
Sample ID G-3-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	7.6	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246P
Sample ID G-3-2
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.9	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	930	mg/kg	16	52	10	GRO95/8021		9/11/2012	CJR	1
Benzene	400	ug/kg	29	93	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	1270	ug/kg	26	82	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	1920	ug/kg	84	270	10	GRO95/8021		9/11/2012	CJR	1
Toluene	640	ug/kg	36	110	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	10500	ug/kg	27	86	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	17700	ug/kg	30	96	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	8600	ug/kg	52	170	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	1370	ug/kg	63	200	10	GRO95/8021		9/11/2012	CJR	1

Lab Code 5024246Q
Sample ID G-3-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		9/10/2012	MDK	1
Organic										

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246Q
Sample ID G-3-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	530	mg/kg	16	52	10	GRO95/8021		9/11/2012	CJR	1
Benzene	< 250	ug/kg	29	93	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	295	ug/kg	26	82	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	< 250	ug/kg	84	270	10	GRO95/8021		9/11/2012	CJR	1
Toluene	350	ug/kg	36	110	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	5000	ug/kg	27	86	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	4100	ug/kg	30	96	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	1660	ug/kg	52	170	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	1220	ug/kg	63	200	10	GRO95/8021		9/11/2012	CJR	1

Lab Code 5024246R
Sample ID G-3-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	3.2	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Ethylbenzene	2.11	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/12/2012	CJR	1
Naphthalene	8.0	ug/l	2.3	7.2	1	GRO95/8021		9/12/2012	CJR	1
Toluene	2.75	ug/l	0.48	1.5	1	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	74	ug/l	0.78	2.5	1	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	27.5	ug/l	0.79	2.5	1	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	24.8	ug/l	0.71	2.3	1	GRO95/8021		9/12/2012	CJR	1
o-Xylene	3.7	ug/l	0.74	2.3	1	GRO95/8021		9/12/2012	CJR	1

Lab Code 5024246S
Sample ID G-4-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.4	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	2.9	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246S
Sample ID G-4-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246T
Sample ID G-4-2
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.8	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246U
Sample ID G-4-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.2	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246V
Sample ID G-4-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	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		9/12/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/12/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/12/2012	CJR	1
Toluene	< 0.48	ug/l	0.48	1.5	1	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/12/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/12/2012	CJR	1

Lab Code 5024246W
Sample ID G-5-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.3	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	1540	mg/kg	16	52	10	GRO95/8021		9/11/2012	CJR	1
Benzene	430	ug/kg	29	93	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	32000	ug/kg	26	82	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	9100	ug/kg	84	270	10	GRO95/8021		9/11/2012	CJR	1
Toluene	4200	ug/kg	36	110	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	85000	ug/kg	27	86	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	23700	ug/kg	30	96	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	95000	ug/kg	52	170	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	23900	ug/kg	63	200	10	GRO95/8021		9/11/2012	CJR	1

Lab Code 5024246X
Sample ID G-5-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5.0 "J"	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	1290	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	340	ug/l	23	72	10	GRO95/8021		9/11/2012	CJR	1
Toluene	79	ug/l	4.8	15	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	1500	ug/l	7.8	25	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	450	ug/l	7.9	25	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	4800	ug/l	7.1	23	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	1330	ug/l	7.4	23	10	GRO95/8021		9/11/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 5024246Y
Sample ID G-6-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 5024246Z
Sample ID G-6-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 4.6	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Ethylbenzene	145	ug/l	4.6	15	10	GRO95/8021		9/11/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/11/2012	CJR	1
Naphthalene	145	ug/l	23	72	10	GRO95/8021		9/11/2012	CJR	1
Toluene	10.4 "J"	ug/l	4.8	15	10	GRO95/8021		9/11/2012	CJR	1
1,2,4-Trimethylbenzene	1120	ug/l	7.8	25	10	GRO95/8021		9/11/2012	CJR	1
1,3,5-Trimethylbenzene	204	ug/l	7.9	25	10	GRO95/8021		9/11/2012	CJR	1
m&p-Xylene	800	ug/l	7.1	23	10	GRO95/8021		9/11/2012	CJR	1
o-Xylene	163	ug/l	7.4	23	10	GRO95/8021		9/11/2012	CJR	1

Lab Code 524246AA
Sample ID G-7-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	17	mg/kg	1.6	5.2	1	GRO95/8021		9/10/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/10/2012	CJR	1
Ethylbenzene	380	ug/kg	2.6	8.2	1	GRO95/8021		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/10/2012	CJR	1
Naphthalene	85	ug/kg	8.4	27	1	GRO95/8021		9/10/2012	CJR	1
Toluene	48	ug/kg	3.6	11	1	GRO95/8021		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	830	ug/kg	2.7	8.6	1	GRO95/8021		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246AA
Sample ID G-7-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	320	ug/kg	3	9.6	1	GRO95/8021		9/10/2012	CJR	1
m&p-Xylene	800	ug/kg	5.2	17	1	GRO95/8021		9/10/2012	CJR	1
o-Xylene	410	ug/kg	6.3	20	1	GRO95/8021		9/10/2012	CJR	1

Lab Code 524246BB
Sample ID G-8-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	1.55	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Ethylbenzene	14.2	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/12/2012	CJR	1
Naphthalene	10.9	ug/l	2.3	7.2	1	GRO95/8021		9/12/2012	CJR	1
Toluene	6.1	ug/l	0.48	1.5	1	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	82	ug/l	0.78	2.5	1	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	22.7	ug/l	0.79	2.5	1	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	50	ug/l	0.71	2.3	1	GRO95/8021		9/12/2012	CJR	1
o-Xylene	13.7	ug/l	0.74	2.3	1	GRO95/8021		9/12/2012	CJR	1

Lab Code 524246CC
Sample ID G-9-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.1	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	10	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246DD
Sample ID G-9-2
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.8	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246EE
Sample ID G-9-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.1	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246FF
Sample ID G-10-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.1	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	10	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246FF
Sample ID G-10-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246GG
Sample ID G-10-2
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.8	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246HH
Sample ID G-10-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.8	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246HH
Sample ID G-10-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246II
Sample ID G-11-1
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.3	%			1	5021		9/10/2012	MDK	1
Inorganic										
Metals										
Lead, Total	72	mg/kg	0.09	0.25	1	6010B		9/15/2012	ESC	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246JJ
Sample ID G-11-2
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.9	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246KK
Sample ID G-11-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.0	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246LL
Sample ID G-12-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.0	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	< 25	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	< 25	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	< 25	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	< 25	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	< 50	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	< 25	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246MM
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	524.2		9/10/2012	CJR	1
Bromobenzene	< 0.31	ug/l	0.31	0.99	1	524.2		9/10/2012	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.1	1	524.2		9/10/2012	CJR	1
Bromoform	< 0.33	ug/l	0.33	1.1	1	524.2		9/10/2012	CJR	1
Bromomethane	< 0.61	ug/l	0.61	1.9	1	524.2		9/10/2012	CJR	1
Carbon Tetrachloride	< 0.47	ug/l	0.47	1.5	1	524.2		9/10/2012	CJR	1

Project Name RIVER BENDS BAR
Project #

Invoice # E24246

Lab Code 524246MM
Sample ID POTABLE WELL
Sample Matrix Drinking Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chlorobenzene	< 0.25	ug/l	0.25	0.78	1	524.2		9/10/2012	CJR	1
Chloroethane	< 1.1	ug/l	1.1	3.4	1	524.2		9/10/2012	CJR	1
Chloroform	< 0.39	ug/l	0.39	1.2	1	524.2		9/10/2012	CJR	1
Chloromethane	< 0.32	ug/l	0.32	1	1	524.2		9/10/2012	CJR	1
2-Chlorotoluene	< 0.3	ug/l	0.3	0.94	1	524.2		9/10/2012	CJR	1
4-Chlorotoluene	< 0.25	ug/l	0.25	0.78	1	524.2		9/10/2012	CJR	1
Dibromochloromethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/10/2012	CJR	1
Dibromomethane	< 0.21	ug/l	0.21	0.66	1	524.2		9/10/2012	CJR	1
1,4-Dichlorobenzene	< 0.33	ug/l	0.33	1	1	524.2		9/10/2012	CJR	1
1,3-Dichlorobenzene	< 0.12	ug/l	0.12	0.38	1	524.2		9/10/2012	CJR	1
1,2-Dichlorobenzene	< 0.22	ug/l	0.22	0.7	1	524.2		9/10/2012	CJR	1
Dichlorodifluoromethane	< 0.34	ug/l	0.34	1.1	1	524.2		9/10/2012	CJR	1
1,2-Dichloroethane	< 0.3	ug/l	0.3	0.96	1	524.2		9/10/2012	CJR	1
1,1-Dichloroethane	< 0.38	ug/l	0.38	1.2	1	524.2		9/10/2012	CJR	1
1,1-Dichloroethene	< 0.37	ug/l	0.37	1.2	1	524.2		9/10/2012	CJR	1
cis-1,2-Dichloroethene	< 0.42	ug/l	0.42	1.3	1	524.2		9/10/2012	CJR	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	524.2		9/10/2012	CJR	1
1,2-Dichloropropane	< 0.35	ug/l	0.35	1.1	1	524.2		9/10/2012	CJR	1
2,2-Dichloropropane	< 1.9	ug/l	1.9	5.9	1	524.2		9/10/2012	CJR	1
1,3-Dichloropropane	< 0.21	ug/l	0.21	0.66	1	524.2		9/10/2012	CJR	1
trans-1,3-Dichloropropene	< 0.37	ug/l	0.37	1.2	1	524.2		9/10/2012	CJR	1
cis-1,3-Dichloropropene	< 0.25	ug/l	0.25	0.78	1	524.2		9/10/2012	CJR	1
1,1-Dichloropropene	< 0.2	ug/l	0.2	0.64	1	524.2		9/10/2012	CJR	1
Ethylbenzene	< 0.27	ug/l	0.27	0.85	1	524.2		9/10/2012	CJR	1
Hexachlorobutadiene	< 0.31	ug/l	0.31	0.98	1	524.2		9/10/2012	CJR	1
Isopropylbenzene	< 0.26	ug/l	0.26	0.82	1	524.2		9/10/2012	CJR	1
p-Isopropyltoluene	< 0.39	ug/l	0.39	1.3	1	524.2		9/10/2012	CJR	1
Methylene chloride	< 0.33	ug/l	0.33	1.1	1	524.2		9/10/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.38	ug/l	0.38	1.2	1	524.2		9/10/2012	CJR	1
Naphthalene	< 0.34	ug/l	0.34	1.1	1	524.2		9/10/2012	CJR	1
Styrene	< 0.16	ug/l	0.16	0.5	1	524.2		9/10/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 0.24	ug/l	0.24	0.76	1	524.2		9/10/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/10/2012	CJR	1
Tetrachloroethene	< 0.4	ug/l	0.4	1.3	1	524.2		9/10/2012	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	524.2		9/10/2012	CJR	1
1,2,4-Trichlorobenzene	< 0.14	ug/l	0.14	0.45	1	524.2		9/10/2012	CJR	1
1,1,1-Trichloroethane	< 0.4	ug/l	0.4	1.3	1	524.2		9/10/2012	CJR	1
1,1,2-Trichloroethane	< 0.39	ug/l	0.39	1.3	1	524.2		9/10/2012	CJR	1
Trichloroethene (TCE)	< 0.4	ug/l	0.4	1.3	1	524.2		9/10/2012	CJR	1
Trichlorofluoromethane	< 0.38	ug/l	0.38	1.2	1	524.2		9/10/2012	CJR	1
1,2,3-Trichloropropane	< 0.57	ug/l	0.57	1.8	1	524.2		9/10/2012	CJR	1
Trichlorotrifluoroethane	< 0.3	ug/l	0.3	0.96	1	524.2		9/10/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.15	ug/l	0.15	0.47	1	524.2		9/10/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.092	ug/l	0.092	0.29	1	524.2		9/10/2012	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.56	1	524.2		9/10/2012	CJR	1
m&p-Xylene	< 0.65	ug/l	0.65	2.1	1	524.2		9/10/2012	CJR	1
o-Xylene	< 0.32	ug/l	0.32	1	1	524.2		9/10/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246NN
Sample ID G-13-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	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		9/12/2012	CJR	1
Ethylbenzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/12/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/12/2012	CJR	1
Toluene	0.99 "J"	ug/l	0.48	1.5	1	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/12/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/12/2012	CJR	1

Lab Code 524246OO
Sample ID G-14-4
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.4	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	32	mg/kg	1.6	5.2	1	GRO95/8021		9/18/2012	CJR	1
Benzene	44	ug/kg	2.9	9.3	1	GRO95/8021		9/18/2012	CJR	1
Ethylbenzene	870	ug/kg	2.6	8.2	1	GRO95/8021		9/18/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/18/2012	CJR	1
Naphthalene	1110	ug/kg	8.4	27	1	GRO95/8021		9/18/2012	CJR	1
Toluene	42	ug/kg	3.6	11	1	GRO95/8021		9/18/2012	CJR	1
1,2,4-Trimethylbenzene	3800	ug/kg	2.7	8.6	1	GRO95/8021		9/18/2012	CJR	1
1,3,5-Trimethylbenzene	1210	ug/kg	3	9.6	1	GRO95/8021		9/18/2012	CJR	1
m&p-Xylene	2920	ug/kg	5.2	17	1	GRO95/8021		9/18/2012	CJR	1
o-Xylene	124	ug/kg	6.3	20	1	GRO95/8021		9/18/2012	CJR	1

Lab Code 524246PP
Sample ID G-15-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.4	%			1	5021		9/10/2012	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	34	mg/kg	1.6	5.2	1	GRO95/8021		9/13/2012	CJR	1
Benzene	304	ug/kg	2.9	9.3	1	GRO95/8021		9/13/2012	CJR	1
Ethylbenzene	2880	ug/kg	2.6	8.2	1	GRO95/8021		9/13/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		9/13/2012	CJR	1
Naphthalene	780	ug/kg	8.4	27	1	GRO95/8021		9/13/2012	CJR	1
Toluene	133	ug/kg	3.6	11	1	GRO95/8021		9/13/2012	CJR	1
1,2,4-Trimethylbenzene	1830	ug/kg	2.7	8.6	1	GRO95/8021		9/13/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246PP
Sample ID G-15-3
Sample Matrix Soil
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	650	ug/kg	3	9.6	1	GRO95/8021		9/13/2012	CJR	1
m&p-Xylene	8400	ug/kg	5.2	17	1	GRO95/8021		9/13/2012	CJR	1
o-Xylene	3600	ug/kg	6.3	20	1	GRO95/8021		9/13/2012	CJR	1

Lab Code 524246QQ
Sample ID G-15-W
Sample Matrix Water
Sample Date 9/6/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	30.4	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Ethylbenzene	1310	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/12/2012	CJR	1
Naphthalene	192	ug/l	23	72	10	GRO95/8021		9/12/2012	CJR	1
Toluene	274	ug/l	4.8	15	10	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	600	ug/l	7.8	25	10	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	186	ug/l	7.9	25	10	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	3700	ug/l	7.1	23	10	GRO95/8021		9/12/2012	CJR	1
o-Xylene	1780	ug/l	7.4	23	10	GRO95/8021		9/12/2012	CJR	1

Lab Code 524246RR
Sample ID G-12-TW
Sample Matrix Water
Sample Date 9/7/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.64 "J"	ug/l	0.46	1.5	1	GRO95/8021		9/14/2012	CJR	1
Ethylbenzene	0.50 "J"	ug/l	0.46	1.5	1	GRO95/8021		9/14/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.57	ug/l	0.57	1.8	1	GRO95/8021		9/14/2012	CJR	1
Naphthalene	< 2.3	ug/l	2.3	7.2	1	GRO95/8021		9/14/2012	CJR	1
Toluene	1.16 "J"	ug/l	0.48	1.5	1	GRO95/8021		9/14/2012	CJR	1
1,2,4-Trimethylbenzene	< 0.78	ug/l	0.78	2.5	1	GRO95/8021		9/14/2012	CJR	1
1,3,5-Trimethylbenzene	< 0.79	ug/l	0.79	2.5	1	GRO95/8021		9/14/2012	CJR	1
m&p-Xylene	< 0.71	ug/l	0.71	2.3	1	GRO95/8021		9/14/2012	CJR	1
o-Xylene	< 0.74	ug/l	0.74	2.3	1	GRO95/8021		9/14/2012	CJR	1

Lab Code 524246SS
Sample ID G-14-TW
Sample Matrix Water
Sample Date 9/7/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 4.6	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Ethylbenzene	430	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/12/2012	CJR	1
Naphthalene	181	ug/l	23	72	10	GRO95/8021		9/12/2012	CJR	1
Toluene	21.8	ug/l	4.8	15	10	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	850	ug/l	7.8	25	10	GRO95/8021		9/12/2012	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E24246
Project #

Lab Code 524246SS
Sample ID G-14-TW
Sample Matrix Water
Sample Date 9/7/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	234	ug/l	7.9	25	10	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	1430	ug/l	7.1	23	10	GRO95/8021		9/12/2012	CJR	1
o-Xylene	95	ug/l	7.4	23	10	GRO95/8021		9/12/2012	CJR	1

Lab Code 524246TT
Sample ID G-7-TW
Sample Matrix Water
Sample Date 9/7/2012

	Result	Units	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 4.6	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Ethylbenzene	98	ug/l	4.6	15	10	GRO95/8021		9/12/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.7	ug/l	5.7	18	10	GRO95/8021		9/12/2012	CJR	1
Naphthalene	51 "J"	ug/l	23	72	10	GRO95/8021		9/12/2012	CJR	1
Toluene	11.1 "J"	ug/l	4.8	15	10	GRO95/8021		9/12/2012	CJR	1
1,2,4-Trimethylbenzene	370	ug/l	7.8	25	10	GRO95/8021		9/12/2012	CJR	1
1,3,5-Trimethylbenzene	106	ug/l	7.9	25	10	GRO95/8021		9/12/2012	CJR	1
m&p-Xylene	289	ug/l	7.1	23	10	GRO95/8021		9/12/2012	CJR	1
o-Xylene	129	ug/l	7.4	23	10	GRO95/8021		9/12/2012	CJR	1

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

Code	*Comment*
1	Laboratory QC within limits.
30	Area percent recovery below 50% for closing calibration standard.

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 J. Ricker

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 0542
Page 1 of 5

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 Vine

Project (Name / Location): River Bends Bar

Reports To: Ron Miller	Invoice To: Ron Miller c/o Jason Powell
Company	Company METCO
Address N 7298 County Rd X	Address 709 Gillette St, #3
City State Zip Albany, WI 53502	City State Zip La Crosse, WI 54603
Phone (608) 558-4592	Phone (608) 781-8879
FAX	FAX 8893

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)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502426A	Meth Blank	9/5/12					1		MEOH		X						X					
B	Trip Blank						1		HCl								X					
C	G-1-1		3:45		X		3	S	MEOH/None		X		X				X					
D	G-1-2		3:50				2	S			X						X					
E	G-1-3		3:55				2	S			X						X					
F	G-1-4		4:00				2	S			X						X					
G	G-1-5		4:05				2	S			X						X					
H	G-1-6		4:10				2	S			X						X					
I	G-1-7		4:15				2	S			X						X					
J	G-1-W		4:25			N	3	GW	HCl								X					

Analysis Requested / Other Analysis

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
U&C Rules, 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
E Vine	3:00PM	9/7/12			

Received in Laboratory By: [signature] Time: 10:00 Date: 9/8/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 51543
Page 2 of 5

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): River Bends Bar

Reports To: See Page 1	Invoice To:
Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
502496 K	G-2-1	9/5/12	4:45		X		3	S	MEOH/None		X		X				X					
L	G-2-2	↓	4:50		↓		3	S	↓		X		X							X		
M	G-2-3	↓	4:55				2	S	↓		X						X					
N	G-2-W	9/5/12	5:10			N	3	GW	HCl								X					
O	G-3-1	9/6/12	7:50				3	S	MEOH/None		X		X				X					
P	G-3-2		7:55				2	S	↓		X						X					
Q	G-3-3		8:00				2	S	↓		X						X					
R	G-3-W		8:10			N	3	GW	HCl								X					
S	G-4-1		8:25				3	S	MEOH/None		X		X				X					
T	G-4-2	↓	8:30		↓		2	S	MEOH		X						X					

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

See Page 1

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	3:00 PM	9/7/12			

Received in Laboratory By: Time: 10:00 Date: 9/8/12

CHAIN OF CUSTODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # No 0544
Page 3 of 5

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):	River Bends Bar
Reports To:	See Page 1
Company	
Address	
City State Zip	
Phone	
FAX	

Invoice To:	
Company	
Address	
City State Zip	
Phone	
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)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
524246 U	G-4-3	9/6/12	8:35		X		2	S	MEOH		X						X					
V	G-4-W		9:25			N	3	GW	HCl								X					
W	G-5-3		9:55				2	S	MEOH		X						X					
X	G-5-W		10:00			N	3	GW	HCl								X					
Y	G-6-3		10:40				2	S	MEOH		X						X					
Z	G-6-W		10:45			N	3	GW	HCl								X					
524246 AA	G-7-3		11:30				2	S	MEOH		X						X					
BB	G-8-W		12:00			N	3	GW	HCl								X					
CC	G-9-1		12:55				3	S	MEOH/None		X		X				X					
DD	G-9-2	↓	1:00		↓		2	S	MEOH		X						X					

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

See Page 1

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	3:00PM	9/7/12			

Received in Laboratory By: Time: 10:00 Date: 9/8/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 197
Page 4 of 5

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 Lee
Project (Name / Location): River Bends Bar

Reports To: See Page 1 → Invoice To:

Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
S24216EE	G-9-3	9/6/12	1:05		X		2	S	MeOH		X						X					
FF	G-10-1		1:40				3	S	None		X		X				X					
GG	G-10-2		1:46				2	S			X						X					
HH	G-10-3		1:50				2	S			X						X					
II	G-11-1		2:10				3	S	None		X		X				X					
JJ	G-11-2		2:15				2	S			X						X					
KK	G-11-3		2:20				2	S			X						X					
LL	G-12-3		2:50				2	S			X						X					
MM	Potable well		3:40			N	3	DW	HCl										X			
NN	G-13-W		9:10			N	3	GW	HCl								X					

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

See Page 1

Sample Integrity - To be completed by receiving lab
Method of Shipment: Driven
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
E Lee	3:00PM	9/7/12			

Received in Laboratory By: [signature] Time: 10:00 Date: 9/8/12

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 198
Page 5 of 5

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): River Bend's Bar

Reports To: See Page 1	Invoice To: →
Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO / (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
52424600	G-14-4	9/6/12	4:45		X		2	S	MEOH		X						X					
PP	G-15-3	9/6/12	5:15		X		2	S	MEOH		X						X					
QQ	G-15-W	9/6/12	5:30		X	N	3	GW	HCl								X					
RR	G-12-TW	9/7/12	9:40		X	N	3	GW	HCl								X					
SS	G-14-TW	9/7/12	9:55		X	N	3	GW	HCl								X					
TT	G-7-TW	9/7/12	10:10		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.)

See Page 1

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

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	3:00pm	9/7/12			

Received in Laboratory By: Time: 10:00 Date: 9/8/12

Synergy Environmental Lab,

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

RON MILLER
RON MILLER
N7298 COUNTY ROAD X
ALBANY, WI 53502

Report Date *25-Jun-13*

Project Name RIVER BENDS BAR **Invoice #** E25301
Project #

Lab Code 5025301A
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 6/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	< 10	mg/kg	2.3	7.3	1	GRO95/8021		6/18/2013	CJR	1
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		6/18/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		6/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		6/18/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		6/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		6/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		6/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		6/18/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		6/18/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		6/18/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25301
Project #

Lab Code 5025301B
Sample ID MW-3-2
Sample Matrix Soil
Sample Date 6/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.2	%			1	5021		6/18/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	3500	mg/kg	115	365	50	GRO95/8021		6/20/2013	CJR	1
Benzene	4000	ug/kg	395	1250	50	GRO95/8021		6/20/2013	CJR	1
Ethylbenzene	4300	ug/kg	385	1250	50	GRO95/8021		6/20/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 1250	ug/kg	405	1300	50	GRO95/8021		6/20/2013	CJR	1
Naphthalene	60000	ug/kg	1100	3500	50	GRO95/8021		6/20/2013	CJR	1
Toluene	2440	ug/kg	420	1350	50	GRO95/8021		6/20/2013	CJR	1
1,2,4-Trimethylbenzene	350000	ug/kg	500	1650	50	GRO95/8021		6/20/2013	CJR	1
1,3,5-Trimethylbenzene	164000	ug/kg	465	1500	50	GRO95/8021		6/20/2013	CJR	1
m&p-Xylene	196000	ug/kg	800	2500	50	GRO95/8021		6/20/2013	CJR	1
o-Xylene	87000	ug/kg	500	1600	50	GRO95/8021		6/20/2013	CJR	1

Lab Code 5025301C
Sample ID MW-3-3
Sample Matrix Soil
Sample Date 6/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.8	%			1	5021		6/18/2013	MDK	1
Organic										
GRO/PVOC + Naphthalene										
Gasoline Range Organics	229	mg/kg	23	73	10	GRO95/8021		6/21/2013	CJR	1
Benzene	510	ug/kg	79	250	10	GRO95/8021		6/21/2013	CJR	1
Ethylbenzene	4500	ug/kg	77	250	10	GRO95/8021		6/21/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		6/21/2013	CJR	1
Naphthalene	5500	ug/kg	220	700	10	GRO95/8021		6/21/2013	CJR	1
Toluene	720	ug/kg	84	270	10	GRO95/8021		6/21/2013	CJR	1
1,2,4-Trimethylbenzene	23200	ug/kg	100	330	10	GRO95/8021		6/21/2013	CJR	1
1,3,5-Trimethylbenzene	9000	ug/kg	93	300	10	GRO95/8021		6/21/2013	CJR	1
m&p-Xylene	29000	ug/kg	160	500	10	GRO95/8021		6/21/2013	CJR	1
o-Xylene	5400	ug/kg	100	320	10	GRO95/8021		6/21/2013	CJR	1

Lab Code 5025301D
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 6/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
TCLP Lead	< 0.05	mg/l	0.05		1	6010B		6/20/2013	ESC	1
Organic										
TCLP										
TCLP Benzene	< 0.05	mg/l	0.05		1	8260B		6/21/2013	ESC	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 3602
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 Powell

Project (Name / Location): River Bends Bar

Reports To: Ron Miller	Invoice To: Jason Powell c/o Ron Miller
Company	Company METCO
Address N7298 County Rd X	Address 709 Gillette St, Suite 3
City State Zip Albany, WI 53502	City State Zip La Crosse, WI 54603
Phone (608) 558-4592	Phone (608) 781-8879
FAX	FAX 8893

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
305301	Meth Blank	6/11/13					1		MeOH
B	MW-3-2		9:10		X		2	S	
C	MW-3-3		9:20				2		
D	MW-1-2		3:25				4		None

Analysis Requested — Other Analysis

Lab I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	TCLP - Lead	TCLP - Benzene	PID/ FID
305301		X						X							
B		X						X					X	X	
C		X						X							
D															

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.
UCC 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: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
E Powell	12:30pm	6/12/13			

Received in Laboratory By: [signature] Time: 8:00 Date: 6/14/13

Synergy Environmental Lab,

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

RON MILLER
RON MILLER
N7298 COUNTY ROAD X
ALBANY, WI 53502

Report Date *26-Jul-13*

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446A
Sample ID N7302 CAFÉ
Sample Matrix Water
Sample Date 7/11/2013

	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		7/19/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/16/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/16/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/16/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/16/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/16/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/16/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/16/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/16/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/16/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/16/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/16/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/16/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/16/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/16/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/16/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/16/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/16/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/16/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/16/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/16/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446A
Sample ID N7302 CAFÉ
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/16/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/16/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/16/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/16/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/16/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/16/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/16/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/16/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/16/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/16/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/16/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/16/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/16/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/16/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/16/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/16/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/16/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/16/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/16/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/16/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		7/16/2013	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/16/2013	CJR	1
SUR - 4-Bromofluorobenzene	108	REC %			1	8260B		7/16/2013	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		7/16/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 7/11/2013

	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		7/22/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/16/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/16/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/16/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/16/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/16/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/16/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/16/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/16/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/16/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/16/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/16/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/16/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/16/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/16/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/16/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/16/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/16/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/16/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/16/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/16/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/16/2013	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/16/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/16/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/16/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/16/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/16/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/16/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/16/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/16/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/16/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/16/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/16/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/16/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/16/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/16/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/16/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/16/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/16/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/16/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/16/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/16/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/16/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/16/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/16/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		7/16/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		7/16/2013	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		7/16/2013	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/16/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446C
Sample ID MW-3
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	< 0.06	mg/l	0.06	0.21	1	200.7		7/18/2013	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/22/2013	CWT	1
Manganese, Dissolved	394	ug/L	4.8	15.4	1	200.7		7/18/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/17/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/17/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/17/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	1
sec-Butylbenzene	4.5	ug/l	0.33	1	1	8260B		7/17/2013	CJR	1
n-Butylbenzene	16.2	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/17/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/17/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/17/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/17/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/17/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/17/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/17/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/17/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/17/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/17/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/17/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/17/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/17/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/17/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/17/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/17/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/17/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/17/2013	CJR	1
Ethylbenzene	81	ug/l	0.55	1.7	1	8260B		7/17/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/17/2013	CJR	1
Isopropylbenzene	17	ug/l	0.3	0.96	1	8260B		7/17/2013	CJR	1
p-Isopropyltoluene	2.77	ug/l	0.31	0.98	1	8260B		7/17/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/17/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/17/2013	CJR	1
Naphthalene	79	ug/l	1.7	5.5	1	8260B		7/17/2013	CJR	1
n-Propylbenzene	49	ug/l	0.25	0.81	1	8260B		7/17/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/17/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	1
Toluene	17.2	ug/l	0.69	2.2	1	8260B		7/17/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/17/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/17/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/17/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/17/2013	CJR	1
1,2,4-Trimethylbenzene	340	ug/l	22	69	10	8260B		7/17/2013	CJR	1
1,3,5-Trimethylbenzene	112	ug/l	1.4	4.5	1	8260B		7/17/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/17/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446C
Sample ID MW-3
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	510	ug/l	6.9	22	10	8260B		7/17/2013	CJR	1
o-Xylene	224	ug/l	6.3	20	10	8260B		7/17/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		7/17/2013	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		7/17/2013	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		7/17/2013	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		7/17/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	5.45	mg/l	0.1	0.31	1	4500B/F		7/16/2013	CWT	1
Sulfate	19.8	mg/l	3.4	10.6	2	300.0		7/16/2013	CWT	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446D
Sample ID MW-2
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.74	mg/l	0.06	0.21	1	200.7		7/18/2013	CWT	1
Lead, Dissolved	5.8	ug/L	0.7	2.5	1	7421		7/22/2013	CWT	1
Manganese, Dissolved	678	ug/L	4.8	15.4	1	200.7		7/18/2013	CWT	1
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		7/17/2013	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		7/17/2013	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		7/17/2013	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
n-Butylbenzene	94	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		7/17/2013	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		7/17/2013	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		7/17/2013	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		7/17/2013	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		7/17/2013	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		7/17/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		7/17/2013	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		7/17/2013	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		7/17/2013	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		7/17/2013	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		7/17/2013	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		7/17/2013	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		7/17/2013	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		7/17/2013	CJR	1
cis-1,2-Dichloroethene	< 19	ug/l	19	60	50	8260B		7/17/2013	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		7/17/2013	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		7/17/2013	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		7/17/2013	CJR	1
Ethylbenzene	122	ug/l	27.5	85	50	8260B		7/17/2013	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		7/17/2013	CJR	1
Isopropylbenzene	76	ug/l	15	48	50	8260B		7/17/2013	CJR	1
p-Isopropyltoluene	30 "J"	ug/l	15.5	49	50	8260B		7/17/2013	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		7/17/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		7/17/2013	CJR	1
Naphthalene	900	ug/l	85	275	50	8260B		7/17/2013	CJR	1
n-Propylbenzene	203	ug/l	12.5	40.5	50	8260B		7/17/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		7/17/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		7/17/2013	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		7/17/2013	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		7/17/2013	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		7/17/2013	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		7/17/2013	CJR	1
1,2,4-Trimethylbenzene	1610	ug/l	110	345	50	8260B		7/17/2013	CJR	1
1,3,5-Trimethylbenzene	420	ug/l	70	225	50	8260B		7/17/2013	CJR	1
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		7/17/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446D
Sample ID MW-2
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	550	ug/l	34.5	110	50	8260B		7/17/2013	CJR	1
o-Xylene	163	ug/l	31.5	100	50	8260B		7/17/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			50	8260B		7/17/2013	CJR	1
SUR - 4-Bromofluorobenzene	106	REC %			50	8260B		7/17/2013	CJR	1
SUR - Dibromofluoromethane	98	REC %			50	8260B		7/17/2013	CJR	1
SUR - Toluene-d8	103	REC %			50	8260B		7/17/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	0.57	mg/l	0.1	0.31	1	4500B/F		7/16/2013	CWT	1
Sulfate	12.2	mg/l	3.4	10.6	2	300.0		7/16/2013	CWT	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446E
Sample ID MW-1
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.97	mg/l	0.06	0.21	1	200.7		7/18/2013	CWT	1
Lead, Dissolved	33.4	ug/L	1.4	5	2	7421		7/22/2013	CWT	1
Manganese, Dissolved	1120	ug/L	4.8	15.4	1	200.7		7/18/2013	CWT	1
Organic										
VOC's										
Benzene	620	ug/l	12	38.5	50	8260B		7/17/2013	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		7/17/2013	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		7/17/2013	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	1
sec-Butylbenzene	45 "J"	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
n-Butylbenzene	238	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		7/17/2013	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		7/17/2013	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		7/17/2013	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		7/17/2013	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		7/17/2013	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		7/17/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		7/17/2013	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		7/17/2013	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		7/17/2013	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		7/17/2013	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		7/17/2013	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		7/17/2013	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		7/17/2013	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		7/17/2013	CJR	1
cis-1,2-Dichloroethene	< 19	ug/l	19	60	50	8260B		7/17/2013	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		7/17/2013	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		7/17/2013	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		7/17/2013	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		7/17/2013	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		7/17/2013	CJR	1
Ethylbenzene	5000	ug/l	27.5	85	50	8260B		7/17/2013	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		7/17/2013	CJR	1
Isopropylbenzene	248	ug/l	15	48	50	8260B		7/17/2013	CJR	1
p-Isopropyltoluene	23 "J"	ug/l	15.5	49	50	8260B		7/17/2013	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		7/17/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		7/17/2013	CJR	1
Naphthalene	1050	ug/l	85	275	50	8260B		7/17/2013	CJR	1
n-Propylbenzene	670	ug/l	12.5	40.5	50	8260B		7/17/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		7/17/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		7/17/2013	CJR	1
Toluene	10000	ug/l	34.5	110	50	8260B		7/17/2013	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		7/17/2013	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		7/17/2013	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		7/17/2013	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		7/17/2013	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		7/17/2013	CJR	1
1,2,4-Trimethylbenzene	4700	ug/l	110	345	50	8260B		7/17/2013	CJR	1
1,3,5-Trimethylbenzene	1240	ug/l	70	225	50	8260B		7/17/2013	CJR	1
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		7/17/2013	CJR	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446E
Sample ID MW-1
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	14200	ug/l	34.5	110	50	8260B		7/17/2013	CJR	1
o-Xylene	5500	ug/l	31.5	100	50	8260B		7/17/2013	CJR	1
SUR - Dibromofluoromethane	103	REC %			50	8260B		7/17/2013	CJR	1
SUR - Toluene-d8	104	REC %			50	8260B		7/17/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			50	8260B		7/17/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			50	8260B		7/17/2013	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.1	mg/l	0.1	0.31	1	4500B/F		7/16/2013	CWT	1
Sulfate	7.75 "J"	mg/l	3.4	10.6	2	300.0		7/16/2013	CWT	1

Project Name RIVER BENDS BAR **Invoice #** E25446
Project #

Lab Code 5025446F
Sample ID TB
Sample Matrix Water
Sample Date 7/11/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/17/2013	CJR	
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/17/2013	CJR	
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/17/2013	CJR	
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/17/2013	CJR	
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/17/2013	CJR	
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/17/2013	CJR	
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/17/2013	CJR	
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/17/2013	CJR	
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/17/2013	CJR	
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/17/2013	CJR	
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/17/2013	CJR	
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/17/2013	CJR	
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/17/2013	CJR	
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/17/2013	CJR	
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/17/2013	CJR	
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/17/2013	CJR	
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/17/2013	CJR	
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/17/2013	CJR	
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/17/2013	CJR	
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/17/2013	CJR	
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/17/2013	CJR	
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/17/2013	CJR	
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/17/2013	CJR	
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/17/2013	CJR	
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/17/2013	CJR	
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/17/2013	CJR	
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/17/2013	CJR	
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/17/2013	CJR	
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/17/2013	CJR	
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/17/2013	CJR	
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/17/2013	CJR	
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/17/2013	CJR	
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/17/2013	CJR	
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/17/2013	CJR	
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/17/2013	CJR	
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/17/2013	CJR	
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/17/2013	CJR	
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/17/2013	CJR	
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/17/2013	CJR	
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/17/2013	CJR	
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/17/2013	CJR	
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/17/2013	CJR	
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/17/2013	CJR	
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/17/2013	CJR	
SUR - Toluene-d8	96	REC %			1	8260B		7/17/2013	CJR	
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		7/17/2013	CJR	
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		7/17/2013	CJR	
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/17/2013	CJR	

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

Code	*Comment*
1	Laboratory QC within 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 C USTODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No (668

Page 1 of 1

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

Lab I.D. #:
Account No.: Quote No.:
Project #:
Sampler: (signature)
Project (Name / Location): River Bends Bar - Albany

Reports To: Ron Miller	Invoice To: Ron Miller c/o METCO
Company	Company METCO
Address N7298 County Rd X	Address 709 Gillette St Ste 3
City State Zip Albany, WI 53502	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)	IRON (Dissolved)	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Dissolved Manganese	PID/FID
S025446 A	N7302 GW	7-11	240			Y	4	GW					X							X			
B	N7298 PW		1145				4						X							X			
C	MW-3		115				6					X	X	X				X		X		X	
D	MW-2		150				6					X	X	X				X		X		X	
E	MW-1		225				6					X	X	X				X		X		X	
F	TB						1													X			

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

Lab to send copy of report to METCO/Jason P. (invoice to METCO)
U+C Rates Apply * Agent Status

Sample Integrity - To be completed by receiving lab
Method of Shipment: 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
	9:00	7-12-13			

Received in Laboratory By: [signature] Time: 10:00 Date: 7-13-13

Synergy Environmental Lab,

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

RON MILLER
RON MILLER
N7298 COUNTY ROAD X
ALBANY, WI 53502

Report Date *24-Oct-13*

Project Name RIVER BEND BAR **Invoice #** E25949
Project #
Lab Code 5025949A
Sample ID N7302
Sample Matrix Water
Sample Date 10/15/2013

	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		10/18/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/18/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		10/18/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		10/18/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/18/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		10/18/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		10/18/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		10/18/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		10/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		10/18/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		10/18/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		10/18/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		10/18/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		10/18/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		10/18/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		10/18/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		10/18/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		10/18/2013	CJR	1

Project Name RIVER BEND BAR **Invoice #** E25949
Project #

Lab Code 5025949A
Sample ID N7302
Sample Matrix Water
Sample Date 10/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		10/18/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/18/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		10/18/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		10/18/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		10/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/18/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/18/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		10/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		10/18/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		10/18/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		10/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/18/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		10/18/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		10/18/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2013	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		10/18/2013	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		10/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		10/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/18/2013	CJR	1

Project Name RIVER BEND BAR **Invoice #** E25949
Project #

Lab Code 5025949B
Sample ID N7298
Sample Matrix Water
Sample Date 10/15/2013

	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		10/18/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/18/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		10/18/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		10/18/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		10/18/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		10/18/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		10/18/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		10/18/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		10/18/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		10/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		10/18/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		10/18/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		10/18/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		10/18/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		10/18/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		10/18/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/18/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		10/18/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		10/18/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		10/18/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		10/18/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		10/18/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		10/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		10/18/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		10/18/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		10/18/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		10/18/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		10/18/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		10/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		10/18/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		10/18/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		10/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		10/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		10/18/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		10/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		10/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		10/18/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		10/18/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		10/18/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		10/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		10/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		10/18/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		10/18/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		10/18/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		10/18/2013	CJR	1

Project Name RIVER BEND BAR **Invoice #** E25949
Project #

Lab Code 5025949B
Sample ID N7298
Sample Matrix Water
Sample Date 10/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	98	REC %			1	8260B		10/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			1	8260B		10/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/18/2013	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		10/18/2013	CJR	1

Lab Code 5025949C
Sample ID MW-3
Sample Matrix Water
Sample Date 10/15/2013

	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		10/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 2.7	ug/l	2.7	8.5	10	GRO95/8021		10/23/2013	CJR	1
Ethylbenzene	114	ug/l	8.2	26	10	GRO95/8021		10/23/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 3.7	ug/l	3.7	12	10	GRO95/8021		10/23/2013	CJR	1
Naphthalene	137	ug/l	12	38	10	GRO95/8021		10/23/2013	CJR	1
Toluene	12.8 "J"	ug/l	8	26	10	GRO95/8021		10/23/2013	CJR	1
1,2,4-Trimethylbenzene	790	ug/l	8.3	26	10	GRO95/8021		10/23/2013	CJR	1
1,3,5-Trimethylbenzene	330	ug/l	8.6	27	10	GRO95/8021		10/23/2013	CJR	1
m&p-Xylene	730	ug/l	16	52	10	GRO95/8021		10/23/2013	CJR	1
o-Xylene	199	ug/l	8.1	26	10	GRO95/8021		10/23/2013	CJR	1

Lab Code 5025949D
Sample ID MW-2
Sample Matrix Water
Sample Date 10/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	17.7	ug/L	0.7	2.5	1	7421		10/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 13.5	ug/l	13.5	42.5	50	GRO95/8021		10/23/2013	CJR	1
Ethylbenzene	380	ug/l	41	130	50	GRO95/8021		10/23/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		10/23/2013	CJR	1
Naphthalene	700	ug/l	60	190	50	GRO95/8021		10/23/2013	CJR	1
Toluene	60 "J"	ug/l	40	130	50	GRO95/8021		10/23/2013	CJR	1
1,2,4-Trimethylbenzene	1640	ug/l	41.5	130	50	GRO95/8021		10/23/2013	CJR	1
1,3,5-Trimethylbenzene	470	ug/l	43	135	50	GRO95/8021		10/23/2013	CJR	1
m&p-Xylene	1310	ug/l	80	260	50	GRO95/8021		10/23/2013	CJR	1
o-Xylene	450	ug/l	40.5	130	50	GRO95/8021		10/23/2013	CJR	1

Project Name RIVER BEND BAR **Invoice #** E25949
Project #

Lab Code 5025949E
Sample ID MW-1
Sample Matrix Water
Sample Date 10/15/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	20.2	ug/L	0.7	2.5	1	7421		10/18/2013	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	890	ug/l	13.5	42.5	50	GRO95/8021		10/23/2013	CJR	1
Ethylbenzene	3600	ug/l	41	130	50	GRO95/8021		10/23/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 18.5	ug/l	18.5	60	50	GRO95/8021		10/23/2013	CJR	1
Naphthalene	680	ug/l	60	190	50	GRO95/8021		10/23/2013	CJR	1
Toluene	7200	ug/l	40	130	50	GRO95/8021		10/23/2013	CJR	1
1,2,4-Trimethylbenzene	2350	ug/l	41.5	130	50	GRO95/8021		10/23/2013	CJR	1
1,3,5-Trimethylbenzene	770	ug/l	43	135	50	GRO95/8021		10/23/2013	CJR	1
m&p-Xylene	9500	ug/l	80	260	50	GRO95/8021		10/23/2013	CJR	1
o-Xylene	3700	ug/l	40.5	130	50	GRO95/8021		10/23/2013	CJR	1

Lab Code 5025949F
Sample ID TB
Sample Matrix Water
Sample Date 10/15/2013

	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		10/22/2013	CJR	1
Ethylbenzene	< 0.82	ug/l	0.82	2.6	1	GRO95/8021		10/22/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.37	ug/l	0.37	1.2	1	GRO95/8021		10/22/2013	CJR	1
Naphthalene	< 1.2	ug/l	1.2	3.8	1	GRO95/8021		10/22/2013	CJR	1
Toluene	< 0.8	ug/l	0.8	2.6	1	GRO95/8021		10/22/2013	CJR	1
1,2,4-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		10/22/2013	CJR	1
1,3,5-Trimethylbenzene	< 0.86	ug/l	0.86	2.7	1	GRO95/8021		10/22/2013	CJR	1
m&p-Xylene	< 1.6	ug/l	1.6	5.2	1	GRO95/8021		10/22/2013	CJR	1
o-Xylene	< 0.81	ug/l	0.81	2.6	1	GRO95/8021		10/22/2013	CJR	1

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

Code	*Comment*
1	Laboratory QC within limits.
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 C TODY RECORD

Synergy
Environmental Lab, Inc.

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

Chain # Nº 2681

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) Matthew C Miller

Project (Name / Location): River Bend Bar / Albany, WI

Reports To: Ron Miller	Invoice To: R. Miller c/o METCO
Company	Company METCO
Address N 7298 Cty Rd. X	Address 707 Gillette St., Ste 3
City State Zip Albany, WI 53502	City State Zip LaCrosse, WI 54603
Phone	Phone (608) 781-8809
FAX (608) 558-4592	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
502591991	N 7302	10/15	13:40		X	Y	4	GW	HCL/HNO3			X									X		
B	N 7298		13:05									X									X		
C	MW-3		12:45									X					X						
D	MW-2		2:30									X					X						
E	MW-1		3:30									X					X						
F	TB																						

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

Note: UtC Rates Apply (trip blanks to be charged at PVOC + Naphthalene rate)

"Agent Status"

Lab to send copy of Report to METCO / Jason R. (Invoice to METCO)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Driven
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
Matthew C Miller	7:00	10/16/13			

Received in Laboratory By: [signature] Time: 8:00 Date: 10/17/13

Synergy Environmental Lab,

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

TINA KLITZKE
TINA KLITZKE
N3602 CHURCH ROAD
MONTICELLO, WI 53570

Report Date *28-Apr-17*

Project Name RIVER BENDS BAR **Invoice #** E32822
Project #

Lab Code 5032822A
Sample ID MW-4-3
Sample Matrix Soil
Sample Date 4/25/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.6	%			1	5021		4/27/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	0.253 "J"	mg/kg	0.19	0.6	10	GRO95/8021		4/28/2017	TCC	1
Ethylbenzene	32	mg/kg	0.1	0.32	10	GRO95/8021		4/28/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.079	0.25	10	GRO95/8021		4/28/2017	TCC	1
Naphthalene	12.1	mg/kg	0.22	0.7	10	GRO95/8021		4/28/2017	TCC	1
Toluene	7.4	mg/kg	0.14	0.46	10	GRO95/8021		4/28/2017	TCC	1
1,2,4-Trimethylbenzene	90	mg/kg	0.1	0.32	10	GRO95/8021		4/28/2017	TCC	1
1,3,5-Trimethylbenzene	35	mg/kg	0.11	0.36	10	GRO95/8021		4/28/2017	TCC	1
m&p-Xylene	72	mg/kg	0.12	0.37	10	GRO95/8021		4/28/2017	TCC	1
o-Xylene	29.5	mg/kg	0.15	0.47	10	GRO95/8021		4/28/2017	TCC	1

Project Name RIVER BENDS BAR **Invoice #** E32822
Project #

Lab Code 5032822B
Sample ID MW-5-4
Sample Matrix Soil
Sample Date 4/25/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.7	%			1	5021		4/27/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		4/28/2017	TCC	1
Ethylbenzene	0.313	mg/kg	0.01	0.032	1	GRO95/8021		4/28/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		4/28/2017	TCC	1
Naphthalene	0.39	mg/kg	0.022	0.07	1	GRO95/8021		4/28/2017	TCC	1
Toluene	0.070	mg/kg	0.014	0.046	1	GRO95/8021		4/28/2017	TCC	1
1,2,4-Trimethylbenzene	2.81	mg/kg	0.01	0.032	1	GRO95/8021		4/28/2017	TCC	1
1,3,5-Trimethylbenzene	0.96	mg/kg	0.011	0.036	1	GRO95/8021		4/28/2017	TCC	1
m&p-Xylene	0.71	mg/kg	0.012	0.037	1	GRO95/8021		4/28/2017	TCC	1
o-Xylene	0.254	mg/kg	0.015	0.047	1	GRO95/8021		4/28/2017	TCC	1

Lab Code 5032822C
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 4/25/2017

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

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

Code	*Comment*
1	Laboratory QC within limits.

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 # NP 3116

Page 1 of 1

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

Lab I.D. #	
Account No. :	**Quote No.:**
Project #:	
Sampler: (signature)	Matt C. Mitchell
Project (Name / Location):	River Bends Bar / Albany, WI
Reports To:	Tina Klitzke
Invoice To:	Tina Klitzke
Company	
Company	c/o METCO
Address	N3602 Church Rd
Address	709 Gillette St Ste 3
City State Zip	Monticello, WI 53570
City State Zip	La Crosse, WI 54603
Phone	(608) 938-1226
Phone	(608) 781-8979
FAX	
FAX	

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS							PID/ FID
503752-A	MW-4-3	4/25	10:55		X	N	1	S	MeOH									X												
B	MW-5-4	4/25	11:15		X	N	1	S	MeOH									X												
C	MeOH Blank						1		MeOH									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 Nora K. (Invoice to METCO)

UnC Rules Apply

Agent Status

Sample Integrity - To be completed by receiving lab	Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Method of Shipment: SM	Matt C. Mitchell	10:00am	4/27/17			
Temp. of Temp. Blank: ____ °C On Ice: X						
Cooler seal intact upon receipt: X Yes ____ No	Received in Laboratory By:		Time: 8:00		Date: 4/27/17	

Synergy Environmental Lab,

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

TINA KLITZKE
TINA KLITZKE
N3602 CHURCH ROAD
MONTICELLO, WI 53570

Report Date *11-May-17*

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870A
Sample ID N7302 PW
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/9/2017	CJR	
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/9/2017	CJR	
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		5/9/2017	CJR	
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/9/2017	CJR	
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		5/9/2017	CJR	
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		5/9/2017	CJR	
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		5/9/2017	CJR	
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/9/2017	CJR	
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/9/2017	CJR	
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/9/2017	CJR	
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/9/2017	CJR	
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/9/2017	CJR	
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/9/2017	CJR	
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/9/2017	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/9/2017	CJR	
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/9/2017	CJR	
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/9/2017	CJR	
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/9/2017	CJR	
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/9/2017	CJR	
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/9/2017	CJR	
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/9/2017	CJR	
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/9/2017	CJR	
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/9/2017	CJR	

Project Name RIVER BEND BAR
Project #

Invoice # E32870

Lab Code 5032870A
Sample ID N7302 PW
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/9/2017	CJR	
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/9/2017	CJR	
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/9/2017	CJR	
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		5/9/2017	CJR	
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		5/9/2017	CJR	
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/9/2017	CJR	
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/9/2017	CJR	
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		5/9/2017	CJR	
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/9/2017	CJR	
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/9/2017	CJR	
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/9/2017	CJR	
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		5/9/2017	CJR	
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/9/2017	CJR	
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/9/2017	CJR	
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/9/2017	CJR	
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/9/2017	CJR	
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		5/9/2017	CJR	
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/9/2017	CJR	
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/9/2017	CJR	
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/9/2017	CJR	
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		5/9/2017	CJR	
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		5/9/2017	CJR	
SUR - Dibromofluoromethane	97	REC %			1	8260B		5/9/2017	CJR	
SUR - Toluene-d8	94	REC %			1	8260B		5/9/2017	CJR	

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/9/2017	CJR	
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/9/2017	CJR	
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		5/9/2017	CJR	
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/9/2017	CJR	
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		5/9/2017	CJR	
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		5/9/2017	CJR	
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		5/9/2017	CJR	
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/9/2017	CJR	
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/9/2017	CJR	
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/9/2017	CJR	
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/9/2017	CJR	
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/9/2017	CJR	
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/9/2017	CJR	
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/9/2017	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/9/2017	CJR	
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/9/2017	CJR	
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/9/2017	CJR	
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/9/2017	CJR	
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/9/2017	CJR	
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/9/2017	CJR	
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/9/2017	CJR	
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/9/2017	CJR	
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/9/2017	CJR	
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/9/2017	CJR	
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/9/2017	CJR	
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/9/2017	CJR	
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		5/9/2017	CJR	
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		5/9/2017	CJR	
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/9/2017	CJR	
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/9/2017	CJR	
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		5/9/2017	CJR	
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/9/2017	CJR	
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/9/2017	CJR	
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/9/2017	CJR	
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		5/9/2017	CJR	
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/9/2017	CJR	
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/9/2017	CJR	
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/9/2017	CJR	
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/9/2017	CJR	
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		5/9/2017	CJR	

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/9/2017	CJR	I
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	I
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/9/2017	CJR	I
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/9/2017	CJR	I
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		5/9/2017	CJR	I
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		5/9/2017	CJR	I
SUR - Dibromofluoromethane	98	REC %			1	8260B		5/9/2017	CJR	I
SUR - Toluene-d8	93	REC %			1	8260B		5/9/2017	CJR	I

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870C
Sample ID MW-5
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		5/9/2017	CWT	1
Organic										
VOC's										
Benzene	0.99	ug/l	0.17	0.55	1	8260B		5/9/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/9/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		5/9/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/9/2017	CJR	1
tert-Butylbenzene	0.73 "J"	ug/l	0.39	1.23	1	8260B		5/9/2017	CJR	1
sec-Butylbenzene	1.3	ug/l	0.24	0.76	1	8260B		5/9/2017	CJR	1
n-Butylbenzene	2.96	ug/l	0.34	1.08	1	8260B		5/9/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/9/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/9/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/9/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/9/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/9/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/9/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/9/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/9/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/9/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/9/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/9/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/9/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/9/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/9/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/9/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/9/2017	CJR	1
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/9/2017	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	1
Ethylbenzene	6.3	ug/l	0.2	0.63	1	8260B		5/9/2017	CJR	1
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/9/2017	CJR	1
Isopropylbenzene	8.2	ug/l	0.29	0.93	1	8260B		5/9/2017	CJR	1
p-Isopropyltoluene	2.77	ug/l	0.28	0.91	1	8260B		5/9/2017	CJR	1
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/9/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/9/2017	CJR	1
Naphthalene	12	ug/l	2.17	6.9	1	8260B		5/9/2017	CJR	1
n-Propylbenzene	6.5	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/9/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/9/2017	CJR	1
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/9/2017	CJR	1
Toluene	1.31 "J"	ug/l	0.67	2.13	1	8260B		5/9/2017	CJR	1
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/9/2017	CJR	1
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/9/2017	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870C
Sample ID MW-5
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/9/2017	CJR	1
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	1
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/9/2017	CJR	1
1,2,4-Trimethylbenzene	50	ug/l	1.14	3.63	1	8260B		5/9/2017	CJR	1
1,3,5-Trimethylbenzene	52	ug/l	0.91	2.9	1	8260B		5/9/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	1
m&p-Xylene	92	ug/l	1.56	4.95	1	8260B		5/9/2017	CJR	1
o-Xylene	16.3	ug/l	0.39	1.25	1	8260B		5/9/2017	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		5/9/2017	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		5/9/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		5/9/2017	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		5/9/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870D
Sample ID MW-4
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	15.7	ug/L	0.9	3	1	7421		5/9/2017	CWT	1
Organic										
VOC's										
Benzene	85	ug/l	1.7	5.5	10	8260B		5/10/2017	CJR	1
Bromobenzene	< 4.3	ug/l	4.3	13.7	10	8260B		5/10/2017	CJR	1
Bromodichloromethane	< 3.1	ug/l	3.1	10	10	8260B		5/10/2017	CJR	1
Bromoform	< 4.9	ug/l	4.9	15.6	10	8260B		5/10/2017	CJR	1
tert-Butylbenzene	6.3 "J"	ug/l	3.9	12.3	10	8260B		5/10/2017	CJR	1
sec-Butylbenzene	18.4	ug/l	2.4	7.6	10	8260B		5/10/2017	CJR	1
n-Butylbenzene	74	ug/l	3.4	10.8	10	8260B		5/10/2017	CJR	1
Carbon Tetrachloride	< 2.1	ug/l	2.1	6.8	10	8260B		5/10/2017	CJR	1
Chlorobenzene	< 2.7	ug/l	2.7	8.6	10	8260B		5/10/2017	CJR	1
Chloroethane	< 5	ug/l	5	16	10	8260B		5/10/2017	CJR	1
Chloroform	< 9.6	ug/l	9.6	30.4	10	8260B		5/10/2017	CJR	1
Chloromethane	< 13	ug/l	13	41.5	10	8260B		5/10/2017	CJR	1
2-Chlorotoluene	< 3.6	ug/l	3.6	11.5	10	8260B		5/10/2017	CJR	1
4-Chlorotoluene	< 3.5	ug/l	3.5	11.1	10	8260B		5/10/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 18.8	ug/l	18.8	59.8	10	8260B		5/10/2017	CJR	1
Dibromochloromethane	< 4.5	ug/l	4.5	14.4	10	8260B		5/10/2017	CJR	1
1,4-Dichlorobenzene	< 4.2	ug/l	4.2	13.4	10	8260B		5/10/2017	CJR	1
1,3-Dichlorobenzene	< 4.5	ug/l	4.5	14.3	10	8260B		5/10/2017	CJR	1
1,2-Dichlorobenzene	< 3.4	ug/l	3.4	10.9	10	8260B		5/10/2017	CJR	1
Dichlorodifluoromethane	< 3.8	ug/l	3.8	12	10	8260B		5/10/2017	CJR	1
1,2-Dichloroethane	< 4.5	ug/l	4.5	14.3	10	8260B		5/10/2017	CJR	1
1,1-Dichloroethane	< 4.2	ug/l	4.2	13.4	10	8260B		5/10/2017	CJR	1
1,1-Dichloroethene	< 4.6	ug/l	4.6	14.7	10	8260B		5/10/2017	CJR	1
cis-1,2-Dichloroethene	< 4.1	ug/l	4.1	12.9	10	8260B		5/10/2017	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11.2	10	8260B		5/10/2017	CJR	1
1,2-Dichloropropane	< 3.9	ug/l	3.9	12.4	10	8260B		5/10/2017	CJR	1
1,3-Dichloropropane	< 4.9	ug/l	4.9	15.5	10	8260B		5/10/2017	CJR	1
trans-1,3-Dichloropropene	< 4.2	ug/l	4.2	13.3	10	8260B		5/10/2017	CJR	1
cis-1,3-Dichloropropene	< 2.1	ug/l	2.1	6.5	10	8260B		5/10/2017	CJR	1
Di-isopropyl ether	< 2.6	ug/l	2.6	8.3	10	8260B		5/10/2017	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		5/10/2017	CJR	1
Ethylbenzene	480	ug/l	2	6.3	10	8260B		5/10/2017	CJR	1
Hexachlorobutadiene	< 14.7	ug/l	14.7	46.8	10	8260B		5/10/2017	CJR	1
Isopropylbenzene	112	ug/l	2.9	9.3	10	8260B		5/10/2017	CJR	1
p-Isopropyltoluene	11.2	ug/l	2.8	9.1	10	8260B		5/10/2017	CJR	1
Methylene chloride	< 9.4	ug/l	9.4	29.8	10	8260B		5/10/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 8.2	ug/l	8.2	26	10	8260B		5/10/2017	CJR	1
Naphthalene	90	ug/l	21.7	69	10	8260B		5/10/2017	CJR	1
n-Propylbenzene	340	ug/l	1.9	6.2	10	8260B		5/10/2017	CJR	1
1,1,2,2-Tetrachloroethane	< 6.9	ug/l	6.9	22.1	10	8260B		5/10/2017	CJR	1
1,1,1,2-Tetrachloroethane	< 4.7	ug/l	4.7	14.8	10	8260B		5/10/2017	CJR	1
Tetrachloroethene	< 4.8	ug/l	4.8	15.2	10	8260B		5/10/2017	CJR	1
Toluene	209	ug/l	6.7	21.3	10	8260B		5/10/2017	CJR	1
1,2,4-Trichlorobenzene	< 12.9	ug/l	12.9	41	10	8260B		5/10/2017	CJR	1
1,2,3-Trichlorobenzene	< 8.3	ug/l	8.3	26.3	10	8260B		5/10/2017	CJR	1
1,1,1-Trichloroethane	< 3.5	ug/l	3.5	11.1	10	8260B		5/10/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870D
Sample ID MW-4
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2-Trichloroethane	< 6.5	ug/l	6.5	20.6	10	8260B		5/10/2017	CJR	1
Trichloroethene (TCE)	< 4.5	ug/l	4.5	14.3	10	8260B		5/10/2017	CJR	1
Trichlorofluoromethane	< 6.4	ug/l	6.4	20.4	10	8260B		5/10/2017	CJR	1
1,2,4-Trimethylbenzene	1870	ug/l	11.4	36.3	10	8260B		5/10/2017	CJR	1
1,3,5-Trimethylbenzene	590	ug/l	9.1	29	10	8260B		5/10/2017	CJR	1
Vinyl Chloride	< 1.9	ug/l	1.9	6.2	10	8260B		5/10/2017	CJR	1
m&p-Xylene	1470	ug/l	15.6	49.5	10	8260B		5/10/2017	CJR	1
o-Xylene	500	ug/l	3.9	12.5	10	8260B		5/10/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			10	8260B		5/10/2017	CJR	1
SUR - Toluene-d8	96	REC %			10	8260B		5/10/2017	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			10	8260B		5/10/2017	CJR	1
SUR - Dibromofluoromethane	96	REC %			10	8260B		5/10/2017	CJR	1

Lab Code 5032870E
Sample ID MW-3
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	3.4	ug/L	0.9	3	1	7421		5/9/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.87 "J"	ug/l	0.27	0.87	1	GRO95/8021		5/10/2017	TCC	1
Ethylbenzene	2.57	ug/l	0.56	1.77	1	GRO95/8021		5/10/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/10/2017	TCC	1
Naphthalene	7.6	ug/l	1.7	5.27	1	GRO95/8021		5/10/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		5/10/2017	TCC	1
1,2,4-Trimethylbenzene	4.2	ug/l	0.56	1.78	1	GRO95/8021		5/10/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		5/10/2017	TCC	1
m&p-Xylene	3.5	ug/l	1.1	3.49	1	GRO95/8021		5/10/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		5/10/2017	TCC	1

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870F
Sample ID MW-2
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		5/9/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	1.75	ug/l	0.27	0.87	1	GRO95/8021		5/10/2017	TCC	1
Ethylbenzene	22.6	ug/l	0.56	1.77	1	GRO95/8021		5/10/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		5/10/2017	TCC	1
Naphthalene	38	ug/l	1.7	5.27	1	GRO95/8021		5/10/2017	TCC	1
Toluene	2.3	ug/l	0.33	1.06	1	GRO95/8021		5/10/2017	TCC	1
1,2,4-Trimethylbenzene	340	ug/l	0.56	1.78	1	GRO95/8021		5/10/2017	TCC	1
1,3,5-Trimethylbenzene	47	ug/l	0.58	1.84	1	GRO95/8021		5/10/2017	TCC	1
m&p-Xylene	109	ug/l	1.1	3.49	1	GRO95/8021		5/10/2017	TCC	1
o-Xylene	34	ug/l	0.61	1.92	1	GRO95/8021		5/10/2017	TCC	1

Lab Code 5032870G
Sample ID MW-1
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	17.9	ug/L	0.9	3	1	7421		5/9/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	330	ug/l	5.4	17.4	20	GRO95/8021		5/11/2017	TCC	1
Ethylbenzene	3050	ug/l	11.2	35.4	20	GRO95/8021		5/11/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 8.6	ug/l	8.6	27.2	20	GRO95/8021		5/11/2017	TCC	1
Naphthalene	600	ug/l	34	105.4	20	GRO95/8021		5/11/2017	TCC	1
Toluene	4900	ug/l	6.6	21.2	20	GRO95/8021		5/11/2017	TCC	1
1,2,4-Trimethylbenzene	2460	ug/l	11.2	35.6	20	GRO95/8021		5/11/2017	TCC	1
1,3,5-Trimethylbenzene	650	ug/l	11.6	36.8	20	GRO95/8021		5/11/2017	TCC	1
m&p-Xylene	9000	ug/l	22	69.8	20	GRO95/8021		5/11/2017	TCC	1
o-Xylene	3700	ug/l	12.2	38.4	20	GRO95/8021		5/11/2017	TCC	1

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870H
Sample ID TB
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		5/9/2017	CJR	
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		5/9/2017	CJR	
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		5/9/2017	CJR	
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		5/9/2017	CJR	
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		5/9/2017	CJR	
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		5/9/2017	CJR	
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		5/9/2017	CJR	
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		5/9/2017	CJR	
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		5/9/2017	CJR	
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		5/9/2017	CJR	
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		5/9/2017	CJR	
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		5/9/2017	CJR	
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		5/9/2017	CJR	
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		5/9/2017	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		5/9/2017	CJR	
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		5/9/2017	CJR	
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		5/9/2017	CJR	
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		5/9/2017	CJR	
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		5/9/2017	CJR	
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		5/9/2017	CJR	
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		5/9/2017	CJR	
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		5/9/2017	CJR	
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		5/9/2017	CJR	
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		5/9/2017	CJR	
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		5/9/2017	CJR	
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/9/2017	CJR	
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		5/9/2017	CJR	
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		5/9/2017	CJR	
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		5/9/2017	CJR	
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		5/9/2017	CJR	
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		5/9/2017	CJR	
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		5/9/2017	CJR	
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		5/9/2017	CJR	
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		5/9/2017	CJR	
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		5/9/2017	CJR	
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		5/9/2017	CJR	
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		5/9/2017	CJR	
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		5/9/2017	CJR	
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		5/9/2017	CJR	
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		5/9/2017	CJR	
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		5/9/2017	CJR	
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		5/9/2017	CJR	
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		5/9/2017	CJR	
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		5/9/2017	CJR	

Project Name RIVER BEND BAR **Invoice #** E32870
Project #

Lab Code 5032870H
Sample ID TB
Sample Matrix Water
Sample Date 5/4/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		5/9/2017	CJR	1
Vinyl Chloride	< 0.19	ug/l	0.19	0.62	1	8260B		5/9/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		5/9/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		5/9/2017	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		5/9/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		5/9/2017	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		5/9/2017	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		5/9/2017	CJR	1

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

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature *Michael Ricker*

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # No 311

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 Jamison

Project (Name / Location): River Bend Bar / Albany

Reports To: Tina Klitzke	Invoice To: Tina Klitzke
Company	Company c/o METCO
Address N3602 Church Rd	Address 709 Gillette St, Ste. 3
City State Zip Monticello, WI 53570	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	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
503287-01	A MW302 PW	5-4	1000			N	3	GW	HCL													X		
	B MW298 PW		1030			N	3		HCL													X		
	C MW-5		1050			Y	4		HCL, HNO3			X										X		
	D MW-4		1115			Y	4					X										X		
	E MW-3		1145			Y	4					X						X						
	F MW-2		1210			Y	4					X						X						
	G MW-1		1230			Y	4					X						X						
	H TB						1		HCL													X		

Analysis Requested | Other Analysis

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)

* Utc rates apply (trip blank to be charged at VOC rate)

* Agent status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Spec
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
Jason Jamison	5:00 PM	5-4-17			

Received in Laboratory By: [signature] Time: 10:00 Date: 5/6/17

Synergy Environmental Lab,

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

TINA KLITZKE
TINA KLITZKE
N3602 CHURCH ROAD
MONTICELLO, WI 53570

Report Date *17-Aug-17*

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361A
Sample ID N7302 PW
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		8/11/2017	CJR	1
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		8/11/2017	CJR	1
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		8/11/2017	CJR	1
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		8/11/2017	CJR	1
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		8/11/2017	CJR	1
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		8/11/2017	CJR	1
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		8/11/2017	CJR	1
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		8/11/2017	CJR	1
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		8/11/2017	CJR	1
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		8/11/2017	CJR	1
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		8/11/2017	CJR	1
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		8/11/2017	CJR	1
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		8/11/2017	CJR	1
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		8/11/2017	CJR	1
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		8/11/2017	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		8/11/2017	CJR	1
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		8/11/2017	CJR	1
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	1
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		8/11/2017	CJR	1
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		8/11/2017	CJR	1
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	1
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		8/11/2017	CJR	1
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		8/11/2017	CJR	1
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		8/11/2017	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		8/11/2017	CJR	1
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		8/11/2017	CJR	1
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		8/11/2017	CJR	1
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		8/11/2017	CJR	1
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		8/11/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361A
Sample ID N7302 PW
Sample Matrix Water
Sample Date 8/3/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Di-isopropyl ether		< 0.26	ug/l	0.26	0.83	1	8260B		8/11/2017	CJR	1
EDB (1,2-Dibromoethane)		< 0.34	ug/l	0.34	1.09	1	8260B		8/11/2017	CJR	1
Ethylbenzene		< 0.2	ug/l	0.2	0.63	1	8260B		8/11/2017	CJR	1
Hexachlorobutadiene		< 1.47	ug/l	1.47	4.68	1	8260B		8/11/2017	CJR	1
Isopropylbenzene		< 0.29	ug/l	0.29	0.93	1	8260B		8/11/2017	CJR	1
p-Isopropyltoluene		< 0.28	ug/l	0.28	0.91	1	8260B		8/11/2017	CJR	1
Methylene chloride		< 0.94	ug/l	0.94	2.98	1	8260B		8/11/2017	CJR	1
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		8/11/2017	CJR	1
Naphthalene		< 2.17	ug/l	2.17	6.9	1	8260B		8/11/2017	CJR	1
n-Propylbenzene		< 0.19	ug/l	0.19	0.62	1	8260B		8/11/2017	CJR	1
1,1,2,2-Tetrachloroethane		< 0.69	ug/l	0.69	2.21	1	8260B		8/11/2017	CJR	1
1,1,1,2-Tetrachloroethane		< 0.47	ug/l	0.47	1.48	1	8260B		8/11/2017	CJR	1
Tetrachloroethene		< 0.48	ug/l	0.48	1.52	1	8260B		8/11/2017	CJR	1
Toluene		< 0.67	ug/l	0.67	2.13	1	8260B		8/11/2017	CJR	1
1,2,4-Trichlorobenzene		< 1.29	ug/l	1.29	4.1	1	8260B		8/11/2017	CJR	1
1,2,3-Trichlorobenzene		< 0.83	ug/l	0.83	2.63	1	8260B		8/11/2017	CJR	1
1,1,1-Trichloroethane		< 0.35	ug/l	0.35	1.11	1	8260B		8/11/2017	CJR	1
1,1,2-Trichloroethane		< 0.65	ug/l	0.65	2.06	1	8260B		8/11/2017	CJR	1
Trichloroethene (TCE)		< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	1
Trichlorofluoromethane		< 0.64	ug/l	0.64	2.04	1	8260B		8/11/2017	CJR	1
1,2,4-Trimethylbenzene		< 1.14	ug/l	1.14	3.63	1	8260B		8/11/2017	CJR	1
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		8/11/2017	CJR	1
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		8/11/2017	CJR	1
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		8/11/2017	CJR	1
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		8/11/2017	CJR	1
SUR - Toluene-d8	103		REC %			1	8260B		8/11/2017	CJR	1
SUR - Dibromofluoromethane	99		REC %			1	8260B		8/11/2017	CJR	1
SUR - 1,2-Dichloroethane-d4	100		REC %			1	8260B		8/11/2017	CJR	1
SUR - 4-Bromofluorobenzene	103		REC %			1	8260B		8/11/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		8/11/2017	CJR	
Bromobenzene	< 0.43	ug/l	0.43	1.37	1	8260B		8/11/2017	CJR	
Bromodichloromethane	< 0.31	ug/l	0.31	1	1	8260B		8/11/2017	CJR	
Bromoform	< 0.49	ug/l	0.49	1.56	1	8260B		8/11/2017	CJR	
tert-Butylbenzene	< 0.39	ug/l	0.39	1.23	1	8260B		8/11/2017	CJR	
sec-Butylbenzene	< 0.24	ug/l	0.24	0.76	1	8260B		8/11/2017	CJR	
n-Butylbenzene	< 0.34	ug/l	0.34	1.08	1	8260B		8/11/2017	CJR	
Carbon Tetrachloride	< 0.21	ug/l	0.21	0.68	1	8260B		8/11/2017	CJR	
Chlorobenzene	< 0.27	ug/l	0.27	0.86	1	8260B		8/11/2017	CJR	
Chloroethane	< 0.5	ug/l	0.5	1.6	1	8260B		8/11/2017	CJR	
Chloroform	< 0.96	ug/l	0.96	3.04	1	8260B		8/11/2017	CJR	
Chloromethane	< 1.3	ug/l	1.3	4.15	1	8260B		8/11/2017	CJR	
2-Chlorotoluene	< 0.36	ug/l	0.36	1.15	1	8260B		8/11/2017	CJR	
4-Chlorotoluene	< 0.35	ug/l	0.35	1.11	1	8260B		8/11/2017	CJR	
1,2-Dibromo-3-chloropropane	< 1.88	ug/l	1.88	5.98	1	8260B		8/11/2017	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.44	1	8260B		8/11/2017	CJR	
1,4-Dichlorobenzene	< 0.42	ug/l	0.42	1.34	1	8260B		8/11/2017	CJR	
1,3-Dichlorobenzene	< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	
1,2-Dichlorobenzene	< 0.34	ug/l	0.34	1.09	1	8260B		8/11/2017	CJR	
Dichlorodifluoromethane	< 0.38	ug/l	0.38	1.2	1	8260B		8/11/2017	CJR	
1,2-Dichloroethane	< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	
1,1-Dichloroethane	< 0.42	ug/l	0.42	1.34	1	8260B		8/11/2017	CJR	
1,1-Dichloroethene	< 0.46	ug/l	0.46	1.47	1	8260B		8/11/2017	CJR	
cis-1,2-Dichloroethene	< 0.41	ug/l	0.41	1.29	1	8260B		8/11/2017	CJR	
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.12	1	8260B		8/11/2017	CJR	
1,2-Dichloropropane	< 0.39	ug/l	0.39	1.24	1	8260B		8/11/2017	CJR	
1,3-Dichloropropane	< 0.49	ug/l	0.49	1.55	1	8260B		8/11/2017	CJR	
trans-1,3-Dichloropropene	< 0.42	ug/l	0.42	1.33	1	8260B		8/11/2017	CJR	
cis-1,3-Dichloropropene	< 0.21	ug/l	0.21	0.65	1	8260B		8/11/2017	CJR	
Di-isopropyl ether	< 0.26	ug/l	0.26	0.83	1	8260B		8/11/2017	CJR	
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		8/11/2017	CJR	
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		8/11/2017	CJR	
Hexachlorobutadiene	< 1.47	ug/l	1.47	4.68	1	8260B		8/11/2017	CJR	
Isopropylbenzene	< 0.29	ug/l	0.29	0.93	1	8260B		8/11/2017	CJR	
p-Isopropyltoluene	< 0.28	ug/l	0.28	0.91	1	8260B		8/11/2017	CJR	
Methylene chloride	< 0.94	ug/l	0.94	2.98	1	8260B		8/11/2017	CJR	
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		8/11/2017	CJR	
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		8/11/2017	CJR	
n-Propylbenzene	< 0.19	ug/l	0.19	0.62	1	8260B		8/11/2017	CJR	
1,1,2,2-Tetrachloroethane	< 0.69	ug/l	0.69	2.21	1	8260B		8/11/2017	CJR	
1,1,1,2-Tetrachloroethane	< 0.47	ug/l	0.47	1.48	1	8260B		8/11/2017	CJR	
Tetrachloroethene	< 0.48	ug/l	0.48	1.52	1	8260B		8/11/2017	CJR	
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		8/11/2017	CJR	
1,2,4-Trichlorobenzene	< 1.29	ug/l	1.29	4.1	1	8260B		8/11/2017	CJR	
1,2,3-Trichlorobenzene	< 0.83	ug/l	0.83	2.63	1	8260B		8/11/2017	CJR	
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.11	1	8260B		8/11/2017	CJR	
1,1,2-Trichloroethane	< 0.65	ug/l	0.65	2.06	1	8260B		8/11/2017	CJR	
Trichloroethene (TCE)	< 0.45	ug/l	0.45	1.43	1	8260B		8/11/2017	CJR	
Trichlorofluoromethane	< 0.64	ug/l	0.64	2.04	1	8260B		8/11/2017	CJR	
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		8/11/2017	CJR	

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361B
Sample ID N7298 PW
Sample Matrix Water
Sample Date 8/3/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene		< 0.91	ug/l	0.91	2.9	1	8260B		8/11/2017	CJR	I
Vinyl Chloride		< 0.19	ug/l	0.19	0.62	1	8260B		8/11/2017	CJR	I
m&p-Xylene		< 1.56	ug/l	1.56	4.95	1	8260B		8/11/2017	CJR	I
o-Xylene		< 0.39	ug/l	0.39	1.25	1	8260B		8/11/2017	CJR	I
SUR - 1,2-Dichloroethane-d4	96		REC %			1	8260B		8/11/2017	CJR	I
SUR - 4-Bromofluorobenzene	105		REC %			1	8260B		8/11/2017	CJR	I
SUR - Dibromofluoromethane	97		REC %			1	8260B		8/11/2017	CJR	I
SUR - Toluene-d8	103		REC %			1	8260B		8/11/2017	CJR	I

Lab Code 5033361C
Sample ID MW-5
Sample Matrix Water
Sample Date 8/3/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic											
Metals											
Lead, Dissolved		< 0.9	ug/L	0.9	3	1	7421		8/8/2017	CWT	I
Organic											
PVOC + Naphthalene											
Benzene	0.73		ug/l	0.17	0.55	1	8260B		8/10/2017	CJR	I
Ethylbenzene	6.4		ug/l	0.2	0.63	1	8260B		8/10/2017	CJR	I
Methyl tert-butyl ether (MTBE)		< 0.82	ug/l	0.82	2.6	1	8260B		8/10/2017	CJR	I
Naphthalene	5.8 "J"		ug/l	2.17	6.9	1	8260B		8/10/2017	CJR	I
Toluene	0.69 "J"		ug/l	0.67	2.13	1	8260B		8/10/2017	CJR	I
1,2,4-Trimethylbenzene	26.3		ug/l	1.14	3.63	1	8260B		8/10/2017	CJR	I
1,3,5-Trimethylbenzene	16.4		ug/l	0.91	2.9	1	8260B		8/10/2017	CJR	I
m&p-Xylene	27.3		ug/l	1.56	4.95	1	8260B		8/10/2017	CJR	I
o-Xylene	0.74 "J"		ug/l	0.39	1.25	1	8260B		8/10/2017	CJR	I

Lab Code 5033361D
Sample ID MW-4
Sample Matrix Water
Sample Date 8/3/2017

	Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic											
Metals											
Lead, Dissolved	2.8 "J"		ug/L	0.9	3	1	7421		8/8/2017	CWT	I
Organic											
PVOC + Naphthalene											
Benzene	340		ug/l	3.4	11	20	8260B		8/12/2017	CJR	I
Ethylbenzene	1110		ug/l	4	12.6	20	8260B		8/12/2017	CJR	I
Methyl tert-butyl ether (MTBE)		< 16.4	ug/l	16.4	52	20	8260B		8/12/2017	CJR	I
Naphthalene	169		ug/l	43.4	138	20	8260B		8/12/2017	CJR	I
Toluene	390		ug/l	13.4	42.6	20	8260B		8/12/2017	CJR	I
1,2,4-Trimethylbenzene	1970		ug/l	22.8	72.6	20	8260B		8/12/2017	CJR	I
1,3,5-Trimethylbenzene	560		ug/l	18.2	58	20	8260B		8/12/2017	CJR	I
m&p-Xylene	2340		ug/l	31.2	99	20	8260B		8/12/2017	CJR	I
o-Xylene	770		ug/l	7.8	25	20	8260B		8/12/2017	CJR	I

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361E
Sample ID MW-3
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		8/8/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		8/12/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		8/12/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		8/12/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		8/12/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		8/12/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		8/12/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		8/12/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		8/12/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		8/12/2017	CJR	1

Lab Code 5033361F
Sample ID MW-2
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	1.2 "J"	ug/L	0.9	3	1	7421		8/8/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	0.97	ug/l	0.27	0.87	1	GRO95/8021		8/15/2017	CJR	1
Ethylbenzene	10.6	ug/l	0.56	1.77	1	GRO95/8021		8/15/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		8/15/2017	CJR	1
Naphthalene	13.1	ug/l	1.7	5.27	1	GRO95/8021		8/15/2017	CJR	1
Toluene	1.03 "J"	ug/l	0.33	1.06	1	GRO95/8021		8/15/2017	CJR	1
1,2,4-Trimethylbenzene	129	ug/l	0.56	1.78	1	GRO95/8021		8/15/2017	CJR	1
1,3,5-Trimethylbenzene	13.9	ug/l	0.58	1.84	1	GRO95/8021		8/15/2017	CJR	1
m&p-Xylene	35	ug/l	1.1	3.49	1	GRO95/8021		8/15/2017	CJR	1
o-Xylene	11.8	ug/l	0.61	1.92	1	GRO95/8021		8/15/2017	CJR	1

Project Name RIVER BEND BAR **Invoice #** E33361
Project #

Lab Code 5033361G
Sample ID MW-1
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Lead, Dissolved	15.2	ug/L	0.9	3	1	7421		8/8/2017	CWT	1
Organic										
PVOC + Naphthalene										
Benzene	260	ug/l	8.5	27.5	50	8260B		8/12/2017	CJR	1
Ethylbenzene	4400	ug/l	10	31.5	50	8260B		8/12/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 41	ug/l	41	130	50	8260B		8/12/2017	CJR	1
Naphthalene	850	ug/l	108.5	345	50	8260B		8/12/2017	CJR	1
Toluene	6900	ug/l	33.5	106.5	50	8260B		8/12/2017	CJR	1
1,2,4-Trimethylbenzene	3700	ug/l	57	181.5	50	8260B		8/12/2017	CJR	1
1,3,5-Trimethylbenzene	940	ug/l	45.5	145	50	8260B		8/12/2017	CJR	1
m&p-Xylene	12200	ug/l	78	247.5	50	8260B		8/12/2017	CJR	1
o-Xylene	5300	ug/l	19.5	62.5	50	8260B		8/12/2017	CJR	1

Lab Code 5033361H
Sample ID TB
Sample Matrix Water
Sample Date 8/3/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		8/12/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		8/12/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		8/12/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		8/12/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		8/12/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		8/12/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		8/12/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		8/12/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		8/12/2017	CJR	1

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

Code	*Comment*
1	Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

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

Authorized Signature Michael Ricker

CHAIN OF STODY RECORD

Synergy Environmental Lab, Inc.

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

Chain # No 347 1

Page 1 of 1

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

Lab I.D. #:

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

Project #:

Sampler: (signature)

Project (Name / Location): River Bend Bar / Albany

Reports To: Tina Klitzke	Invoice To: Tina Klitzke
Company	Company c/o METCO
Address N3602 Church Rd	Address 709 Gillette St, ste. 3
City State Zip Monticello, WI 53570	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	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PH FI
503356 A	N7302 PW	8-3	830			YN	3	GW	HCL													X		
B	N7298 PW		900			N	3		HCL													X		
C	MW-5		920			Y	4		HCL, HNO_3			X						X						
D	MW-4		940			Y						X						X						
E	MW-3		1000			Y						X						X						
F	MW-2		1025			Y						X						X						
G	MW-1		1050			Y						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)
* ute rates apply (TB to be charged at PVOC+Naph rate)
* Agent status

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
	2:30 PM	8-3-17			

Received in Laboratory By: Time: 10:00 Date: 8/5/17

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

State of Wisconsin
Department of Natural Resources

GROUNDWATER MONITORING WELL INFORMATION FORM

Chapter 281 and 289, Wis. Stats.
Form 4400-89 Rev. 7-98

Facility Name	Facility ID Number	License, Permit or Monitoring No.	Date	Completed By (Name and Firm)
River Bends Bar	123040280		10/11/2017	Bryce Kujawa (METCO)

WI Unique Well No	Well Name	DNR Well ID Number	Well Location	Dir. N/E	Dir. S/W	Date Established	Well Casing Diam.	Well Casing Type	Elevations Top of Well Casing	Elevations Ground Surface	Reference MSL (√)	Reference Site Datum (√)	Depths Screen Top	Depths Initial Groundwater	Depths Well Depth	Screen Length	Well Type	Well Status	Enf. Stds.	Grad-ient	Distance to Waste
			198796.42	X																	
VN023	MW-1		654131.32	X		6/11/2013	2	P	841.81	842.25	X		6	11.72	16	10	11/mw	A	X	U	25
			198816.27	X																	
VN024	MW-2		654188.77	X			2	P	839.57	839.8	X		6	8.67	16	10	11/mw	A		D	25
			198742.71	X																	
VN025	MW-3		654147.33	X			2	P	840.56	840.86	X		6	9.18	16	10	11/mw	A		S	25
			19	X																	
VR646	MW-4		23	X			2	P	840.54	840.93		X	5	7.71	15	10	11/mw	A	X	D	15
			25	X																	
VR647	MW-5		125	X			2	P	835.62	836.04		X	4	9.57	14	10	11/mw	A		D	92

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

Grid Origin Location: (Check if estimated: ☐)
Lat. 42 ° 46 ' 11.6 " Long. 89 ° 28 ' 51.1 " or
St. Plane _____ ft. N. _____ ft. E. S/C/N Zone

Remarks: Well locations for MW-4 and MW-5 are in relation to the northwestern most portion of the on-site building.

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 River Bends Bar	Local Grid Location of Well ☐ N. _____ ft. ☐ S. ☐ E. _____ ft. ☐ W.	Well Name G-7-TW
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. VN003	DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 9/ / 6 / 12 m m d d y y y y
Type of Well Well Code 11 / mw	Section Location of Waste/Source NE 1/4 of NW 1/4 of Sec. 6 T. 2 N, R. 9 [X] E ☐ W	Well Installed By: Name (first, last) and Firm Cory Johnson Soil Essentials
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 _____ 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 [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 _____ ft.

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

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

H. Screen joint, top _____ ft. MSL or 8 ft.

I. Well bottom _____ ft. MSL or 18 ft.

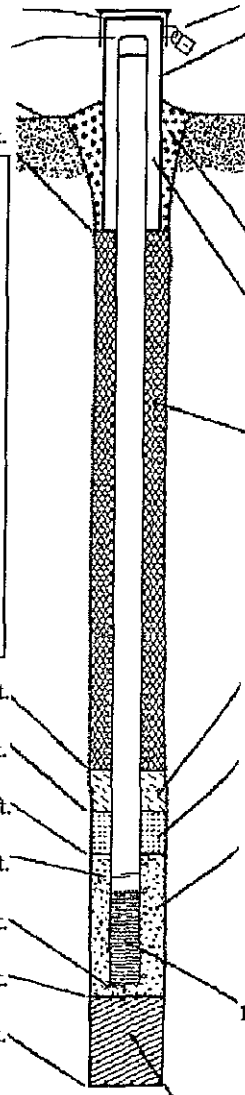
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or 20 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. _____ 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. _____
b. Volume added _____ ft^3

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

10. Screen material: _____
a. Screen type: Factory cut ☐ 11
Continuous slot ☐ 01
_____ Other ☐ _____
b. Manufacturer _____
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 _____ 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.

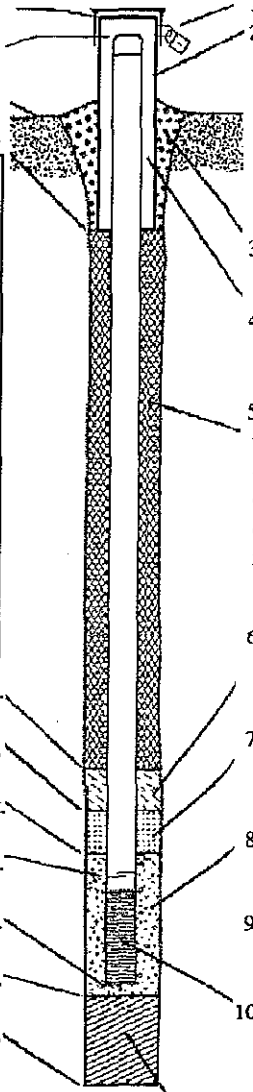
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: River Bends Bar	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: G-12-TW
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VN004 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 9/1/6/12 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NE 1/4 of NW 1/4 of Sec. 6, T. 2 N, R. 9 [X] E ☐ W	Well Installed By: Name (first, last) and Firm: Cory Johnson / Soil Essentials
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 _____ 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 [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 _____ ft.
F. Fine sand, top _____ ft. MSL or _____ ft.
G. Filter pack, top _____ ft. MSL or _____ ft.
H. Screen joint, top _____ ft. MSL or _4___ ft.
I. Well bottom _____ ft. MSL or _14___ ft.
J. Filter pack, bottom _____ ft. MSL or _____ ft.
K. Borehole, bottom _____ ft. MSL or _14___ 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. _____ 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. _____ ____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____ / _____
10. Screen material: _____ ____
a. Screen type: Factory cut ☐ 11 / Continuous slot ☐ 01 / Other ☐ ____ / _____
b. Manufacturer _____
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 _____ 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: River Bends Bar	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: G-14-TW
Facility License, Permit or Monitoring No.	Local Grid Origin [X] (estimated: ☐) or Well Location ☐ Lat. ___° ___' ___" Long. ___° ___' ___" or	Wis. Unique Well No.: VN005 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 9/15/12 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NE 1/4 of NW 1/4 of Sec. 6, T. 2 N, R. 9 [X] E ☐ W	Well Installed By: Name (first, last) and Firm: Cory Johnson, Soil Essentials
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 _____ 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 [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 _____ ft.

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

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

H. Screen joint, top _____ ft. MSL or _10_ ft.

I. Well bottom _____ ft. MSL or _20_ ft.

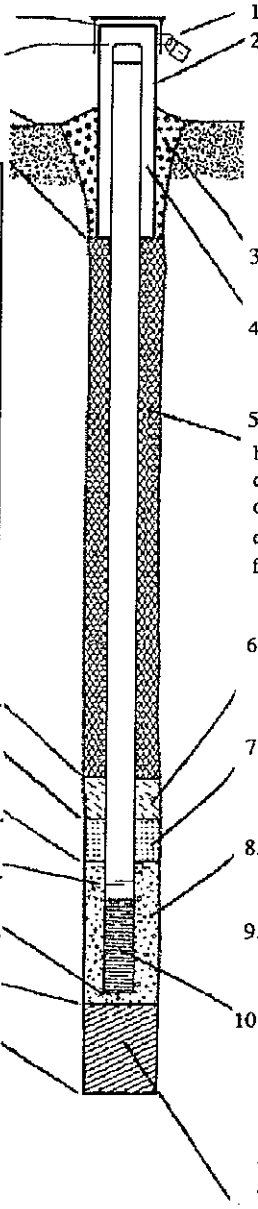
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or _20_ 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. _____ 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. _____
b. Volume added _____ ft^3

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

10. Screen material: _____
a. Screen type: Factory cut ☐ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
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	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: River Bend Bar	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VN023 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 06 / 11 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: TODD Knuckey / 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 _____ 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 _____ ft. MSL or 2 ft.

F. Fine sand, top _____ ft. MSL or 3 ft.

G. Filter pack, top _____ ft. MSL or 4 ft.

H. Screen joint, top _____ ft. MSL or 6 ft.

I. Well bottom _____ ft. MSL or 16 ft.

J. Filter pack, bottom _____ ft. MSL or 16 ft.

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

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.3 in.

N. I.D. well casing 2.0 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

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

4. Material between well casing and protective pipe: Bentonite ☒ 30 / 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. Red Flint 30
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint 80-120
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Buffalo
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature: 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: River Bend Bar	Local Grid Location of Well ☐N. ☐S. _____ ft. ☐E. ☐W. _____ ft.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VN024 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed: 06/11/2013 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / Range Environmental Drilli
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 _____ ft. MSL or 2 ft.

F. Fine sand, top _____ ft. MSL or 3 ft.

G. Filter pack, top _____ ft. MSL or 4 ft.

H. Screen joint, top _____ ft. MSL or 6 ft.

I. Well bottom _____ ft. MSL or 16 ft.

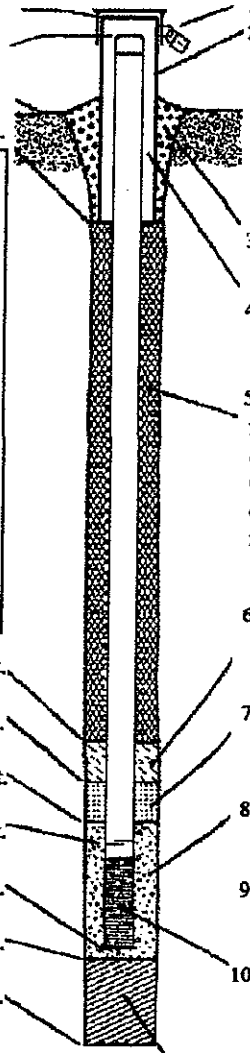
J. Filter pack, bottom _____ ft. MSL or 16 ft.

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

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.3 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

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

4. Material between well casing and protective pipe: Bentonite ☒ 30 / 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. Red Flint 30
b. Volume added 1 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint 30-120
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Buffalo
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature: 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: River Bend Bar	Local Grid Location of Well ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VN025 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 06/11/2013 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Todd Knuckey / 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 ____ 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

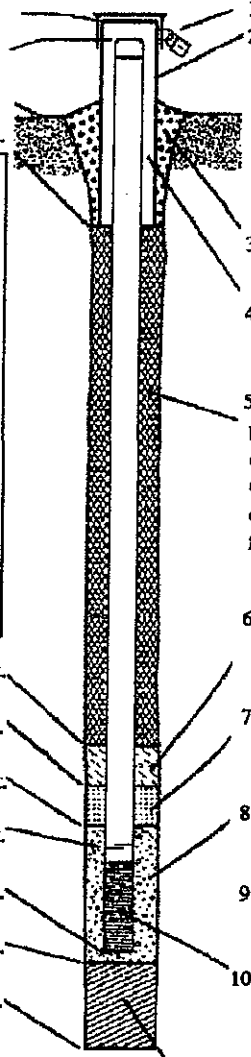
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ ____

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 ____ ft. MSL or 2 ft.
F. Fine sand, top ____ ft. MSL or 3 ft.
G. Filter pack, top ____ ft. MSL or 4 ft.
H. Screen joint, top ____ ft. MSL or 6 ft.
I. Well bottom ____ ft. MSL or 16 ft.
J. Filter pack, bottom ____ ft. MSL or 16 ft.
K. Borehole, bottom ____ ft. MSL or ____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.3 in.
N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: ____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / 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. Red Flint 30
b. Volume added 1 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint 30-120
b. Volume added ____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer Buffalo
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

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

Signature: 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: River Bend Bar	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. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 08/25/2017 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

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

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

13. Sieve analysis performed? ☐ Yes ☒ No

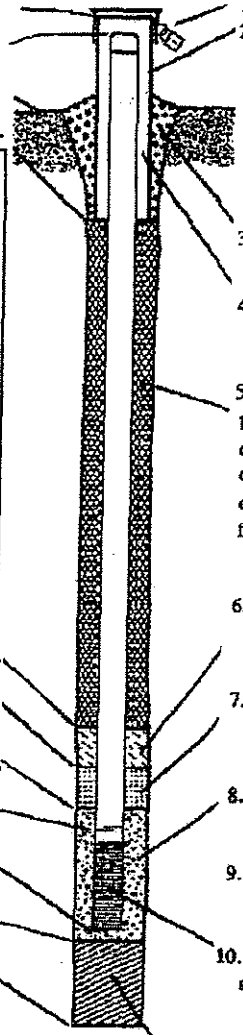
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

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

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

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

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



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

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

Signature: Darrin Prentice | Firm: Geiss Soil & Samples LLC

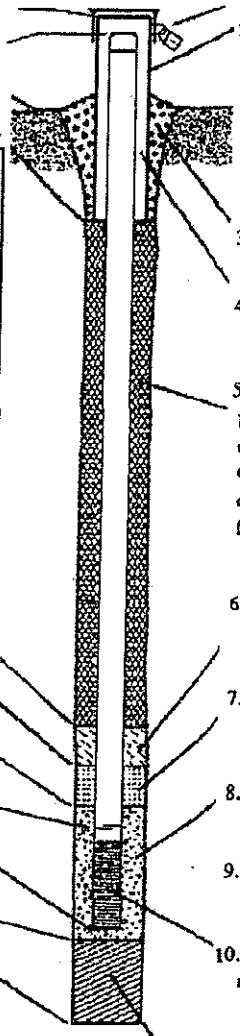
Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Statts., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Statts., 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: River Bend Bar	Local Grid Location of Well: ____ ft. ☐N ☐S, ____ ft. ☐E ☐W	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 05,25,2017 (m m d d y y y y)
Type of Well: Well Code 11, MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number ____	



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

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

13. Sieve analysis performed? ☐ Yes ☒ No

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

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

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

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

E. Bentonite seal, top ____ ft. MSL or 5 ft.
F. Fine sand, top ____ ft. MSL or 2.5 ft.
G. Filter pack, top ____ ft. MSL or 3 ft.
H. Screen joint, top ____ ft. MSL or 4 ft.
I. Well bottom ____ ft. MSL or 14 ft.
J. Filter pack, bottom ____ ft. MSL or 14.5 ft.
K. Borehole, bottom ____ ft. MSL or 14.5 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.40 in.
N. I.D. well casing 2.06 in.

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

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

Signature: Darrin Prentice Firm: Geiss Soil & Samples LLC

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
River Bends Bar	GREEN	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	23	VN023	

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 35 min.

4. Depth of well (from top of well casisng) 16 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 4.7 gal.

7. Volume of water removed from well 10 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 11.72 ft.	15.21 ft.
Date	b. 06 / 11 / 2013 (m m d d y y y y)	6/ 11/ 2013 (m m d d y y y y)
Time	c. 05 : 25 ☐ a.m. X p.m.	06 : 00 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) Tan	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	High Turbidity	Low Turbidity

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

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

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Ron Last Name: Miller
Facility/Firm: _____
Street: N7298 County Road X
City/State/Zip: Albany WI 53502-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [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
River Bends Bar	GREEN	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	23	VN024	

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	☐	61
surged with block and bailed	☐	42
surged with block and pumped	X	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: 50 min.

4. Depth of well (from top of well casisng): 16 ft.

5. Inside diameter of well: 2 in.

6. Volume of water in filter pack and well casing: 8.1 gal.

7. Volume of water removed from well: 80 gal.

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

9. Source of water added: _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 8.67 ft.	9.11 ft.
Date	b. 06 / 11 / 2013 (m m d d y y y y)	6/ 11/ 2013 (m m d d y y y y)
Time	c. 11 : 20 X a.m. ☐ p.m.	12 : 10 ☐ a.m. X p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid X 15 (Describe) Gray	Clear X 20 Turbid ☐ 25 (Describe) Clear
	High Turbidity	Low Turbidity

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

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

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Ron Last Name: Miller
Facility/Firm:
Street: N7298 County Road X
City/State/Zip: Albany WI 53502-

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
River Bends Bar	GREEN	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	23	VN025	

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

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	[X] 42
surged with block and pumped	[X] 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 115 min.

4. Depth of well (from top of well casisng) 16 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 7.5 gal.

7. Volume of water removed from well 30 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. 9.18 ft.	14.7 ft.
Date	b. 06 / 11 / 2013 (m m / d d / y y y y)	6/ / 11/ / 2013
Time	c. 03 : 15 ☐ 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) Tan	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	High Turbidity	Low Turbidity

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

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

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Ron Last Name: Miller
Facility/Firm: _____
Street: N7298 County Road X
City/State/Zip: Albany WI 53502-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [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
River Bends Bar	GREEN	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	23	VR646	

1. Can this well be purged dry? [X] Yes ☐ 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 65 min.

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

5. Inside diameter of well 2 in.

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

7. Volume of water removed from well 35 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. 7.71 ft.	10.85 ft.
Date	b. 04 / 25 / 2017	04 / 25 / 2017
Time	c. 01 : 35 ☐ a.m. [X] p.m.	02 : 40 ☐ a.m. [X] p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Tan	Clear
	Medium Turbidity	Low Turbidity
14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

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

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

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Tina Last Name: Klitzke
Facility/Firm: River Bends Bar
Street: N3602 Church Rd
City/State/Zip: Monticello WI 53570-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Matt Michalski
Print Name: Matt Michalski
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
River Bends Bar	GREEN	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	23	VR647	

1. Can this well be purged dry? [X] Yes ☐ 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 75 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 4.9 gal.

7. Volume of water removed from well 20 gal.

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

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.57 ft.	12.21 ft.
Date	b. 04 / 25 / 2017 (m m d d y y y y)	04 / 25 / 2017 (m m d d y y y y)
Time	c. 02 : 45 ☐ a.m. [X] p.m.	04 : 00 ☐ a.m. [X] p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) Light Tan	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	Low Turbidity	Low Turbidity
14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

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

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

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tina Last Name: Klitzke
Facility/Firm: River Bends Bar
Street: N3602 Church Rd
City/State/Zip: Monticello WI 53570-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Matt C Michalski
Print Name: Matt Michalski
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
River Bends Bar		G-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/05/2012 MM/ DD/ YYYY	09/05/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		≈834 Feet MSL	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 42° 46 ' 11.6 " N	N	E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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'-4')	42		3	Gray sandy clay	CL			400		M				Petro odor
			6	4'-7' Gray sandy clay	CL									
G-1-2 (4'-8')	30		9	7'-9' Brown very fine to fine grained sand	SP			400		M				Petro odor
G-1-3 (8'-12')	30		12	Grey very fine to fine grained silty sand	SM			300		M/W				Petro odor
			15											
G-1-4 (12'-16')	30			Brown sandy silt	ML			300		M/W				Petro odor
			18											
G-1-5 (16'-20')	36		21	Brown sandy clay	CL			400		M/W				Petro odor
G-1-6 (20'-24')	48		24	Brown sandy clay	CL			100		M/W				Petro odor
			27	24'-27' Brown sandy clay	CL									
G-1-7 (24'-28')	48			27'-28' Tan fine to medium grained sand	SP			50		W				Slight petro odor
			30	EOB at 28 feet. Borehole abandoned. Groundwater sample G-1-W collected at 24-28 feet										
			33											
			36											

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

Signature: Matthew C Mielabski Firm: METCO

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
River Bends Bar		G-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/05/2012 MM/ DD/ YYYY	09/05/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation	Borehole Diameter
				≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-2-1 (0'-4')	18		4	Brown sand and gravel and concrete (fill)	FILL			50		M				Slight petro odor
			6	4'-6- Brown sand and gravel and concrete (fill)	FILL									
G-2-2 (4'-8')	24		8	Tan very fine to fine grained sand	SP			650		M				Petro odor
			10											
G-2-3 (8'-12')	30		12	Tan to black very fine to medium grained sand	SP			350		M/W				Petro odor and staining
				EOB at 12 feet. Borehole abandoned. Groundwater sample G-2-W collected at 8-12 feet										
			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: Matthew C Michalski 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
River Bends Bar		G-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation ≈845 Feet MSL	Borehole Diameter 2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-3-1 (0'-5')	54		0-4	Gray sandy clay	CL					M				No petro odor
			4-6	5'-6' Gray sandy clay	CL									
G-3-2 (5'-10')	48		6-10	6'-10' gray very fine to medium grained sand	SP					M				Petro odor
G-3-3 (10'-15')	60		10-16	Tan to black very fine to medium grained sand EOB at 15 feet. Borehole abandoned. Groundwater sample G-3-W collected at 11-15 feet	SP					M/W				Petro odor and staining
			16-24											

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

Signature: Matthew C Meilahn 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
River Bends Bar		G-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		≈833 Feet MSL	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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	Soil Properties: Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			3	0'-4' Tan sand and gravel	SP									
G-4-1 (0'-5')	48		6	4'-5' Gray sandy clay	CL					M				No petro odor
			9	5'-8' Green sandy clay	CL									
				8'-10' Tan very fine to medium grained sand	SP									
G-4-2 (5'-10')	48		12	10'-11'Tan very fine to medium grained sand	SP					M				No petro odor
G-4-3 (10'-15')	48		15	11'-15' Tan clay with gravel	CL					M				No petro odor
			18											
G-4-4 (15'-20')	60		21	Tan sandy clay with gravel	CL					M				No petro odor
G-4-5 (20'-24')	42		24	Gray to tan sandy clay	CL					M				No petro odor
				24'-25' Tan very fine to medium grained sand	SP									
			27	25'-27' Tan clayey sand	SC									
G-4-6 (24'-28')	36			27'-28' Tan very fine to medium grained sand	SP					W				No petro odor
				EOB at 28 feet. Borehole abandoned. Groundwater sample G-4-W collected at 24-28 feet										
			30											
			33											
			36											

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

Signature: Matthew Mitchell Firm: METCO

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
River Bends Bar		G-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation ≈845 Feet MSL	Borehole Diameter 2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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
			2											
			4	0'-4' Orange fine to course grained sand	SP									
G-5-1 (0'-5')	48			4'-5' Gray clay	CL					M				No petro odor
			6											
				5'-7.5' Gray clay	CL									
			8											
G-5-2 (5'-10')	54		10	7.5'-10' Tan very fine to medium grained sand	SP					M				No petro odor
			12											
			14											
G-5-3 (10'-15')	60			Tan to dark gray very fine to medium grained sand	SP					M/W				Petro odor and staining
			16	EOB at 15 feet. Borehole abandoned. Groundwater sample G-5-W collected at 11-15 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: Matthew C Michalski 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
River Bends Bar		G-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation	Borehole Diameter
				≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-6-1 (0'-5')	54		2 4 6 8	0'-4.5' Orange very fine to medium grained sand 4.5'-5' Gray clay	SP CL					M				No petro odor
G-6-2 (5'-10')			10 12	No recovery										
G-6-3 (10'-15')	60		14 16 18 20 22 24	Tan to gray very fine to medium grained sand EOB at 15 feet. Borehole abandoned. Groundwater sample G-6-W collected at 11-15 feet	SP					M/W				Petro odor and staining

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

Signature: Matthew Michalski 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
River Bends Bar		G-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation ≈845 Feet MSL	Borehole Diameter 2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-7-1 (0'-5')	48		0-5	0'-3' Brown sandy clay	CL		See Well Construction Form			M				No petro odor
				3'-4' Orange fine to medium grained sand	SP									
				4'-5' Gray sandy clay	CL									
G-7-2 (5'-10')			10	No recovery										
G-7-3 (10'-15')	36		15	Gray sandy clay	CL					M				Slight petro odor
G-7-4 (15'-20')	36		20	Gray sandy clay w/gravel	CL					M				Slight petro odor
				EOB at 20 feet. Temporary well G-7-TW installed to 18'. Temporary well abandoned.										

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

Signature: Matthew Michalski 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
River Bends Bar		G-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson	09/06/2012	09/06/2012	Geoprobe
Firm: Soil Essentials	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	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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
			2											
			4	0'-4' Brown sandy clay	CL									
G-8-1 (0'-5')	48			4'-5' Orange fine to medium grained sand	SP					M				No petro odor
			6	5'-6' Orange fine to medium grained sand	CL									
			8											
G-8-2 (5'-10')	36		10	6'-10' Gray sandy clay with gravel	CL					M				Petro odor
			12											
			14											
G-8-3 (10'-15')	36			Tan sandy clay with gravel	CL					M				No petro odor
			16	EOB at 15 feet. Borehole abandoned. Groundwater sample G-8-W collected at 11-15 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: Matthew C Michalski Firm: METCO

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
River Bends Bar		G-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-9-1 (0'-5')	54		4	Brown sandy clay	CL					M				No petro odor
			8	5'-9' Orange fine to medium grained sand	SP									
G-9-2 (5'-10')	48		10	9'-10' Tan fine to course grained sand	SP					M/W				No petro odor
				10'-11- Tan fine to course grained sand	SP									
G-9-3 (10'-15')	48		14	11'-15' Tan clay	CL					M/W				No petro odor
			16	EOB at 15 feet. Borehole abandoned.										
			18											
			20											
			22											
			24											

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

Signature: Matthew Wiesler 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
River Bends Bar		G-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson	09/06/2012	09/06/2012	Geoprobe
Firm: Soil Essentials	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	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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	PID / FID	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-10-1 (0'-5')	48		2, 4	Brown sandy clay	CL					M				No petro odor
			6, 8	5'-9' Brown sandy clay	CL									
G-10-2 (5'-10')	54		10	9'-10' Tan very fine to course grained sand	SP					M/W				No petro odor
				10'-11' Tan very fine to course grained sand	SP									
			12, 14											
G-10-3 (10'-15')	48			11'-15' Tan sandy clay with gravel	CL					w/M				No petro odor
			16	EOB at 15 feet. Borehole abandoned.										
			18, 20, 22, 24											

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

Signature: Matthew C Mickelson 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
River Bends Bar		G-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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	PID / FID	Compressive Strength	Soil Properties: Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-11-1 (0'-5')	48		0	Brown sandy clay	CL					Dry				No petro odor
			5	5'-7' Brown sandy silt/clay	CL									
G-11-2 (5'-10')	54		10	7'-10' Tan very fine to medium grained sand	SP					M				No petro odor
				10'-11' Tan very fine to medium grained sand	SP									
G-11-3 (10'-15')	48		15	11'-15' Brown sandy clay with gravel	CL					M				
				EOB at 15 feet. Borehole abandoned.										

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

Signature: Matthew C Mickelson 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
River Bends Bar		G-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		Feet MSL	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-12-1 (0'-5')	48		2 4	Tan Sandy silt/clay	CL		See Well Construction Form			Dry				No petro odor
			6 8											
G-12-2 (5'-10')	48		10	Tan sandy clay with gravel	CL					M/w				No petro odor
			12											
G-12-3 (10'-14')	60		14	Tan sandy clay with gravel	CL					M				Slight petro odor
			16	EOB at 14 feet. Temporary well G-12-TW installed to 14'. Temporary well abandoned.										
			18 20											
			22 24											

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

Signature: Matthew C Michalski 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
River Bends Bar		G-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation ≈845 Feet MSL	Borehole Diameter 2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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
			2											
			4	0'-4' Tan sandy silt/clay	CL									
G-13-1 (0'-5')	48			4'-5' Tan very fine to medium grained sand	SP					M				No petro odor
			6											
			8											
G-13-2 (5'-10')	48		10	Tan sandy silt/clay	CL					M/W				No petro odor
			12											
			14											
G-13-3 (10'-15')	54			Tan sandy clay	CL					M/W				No petro odor
			16	EOB at 15 feet. Borehole abandoned. Groundwater sample G-13-W collected at 11-15 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: Matthew C Michalski 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
River Bends Bar		G-14

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson Firm: Soil Essentials	09/06/2012 MM/ DD/ YYYY	09/06/2012 MM /DD/ YYYY	Geoprobe

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation	Borehole Diameter
			≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-14-1 (0'-4')	36		4	Brown to gray sandy clay	CL		See Well Construction Form			M				No petro odor
			6	4'-7' Gray sandy clay	CL									
G-14-2 (4'-8')	36		8	7'-8' Gray very fine to medium grained sand	SP					M				No petro odor
			10											
G-14-3 (8'-12')	48		12	Gray very fine to medium grained sand	SP					M				No petro odor
			14	▼										
G-14-4 (12'-16')	36		16	Gray clayey sand	SC					M/W				Slight petro odor
			18											
G-14-5 (16'-20')	36		20	Gray sandy clay with gravel	CL					M				Slight petro odor
			22	EOB at 20 feet. Temporary well G-14-TW installed to 20'. Temporary well abandoned.										
			24											

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

Signature: Matthew C Michalski 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
River Bends Bar		G-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Cory Last: Johnson	09/06/2012	09/06/2012	Geoprobe
Firm: Soil Essentials	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	≈845 Feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Albany

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-15-1 (0'-4')	36		4	Tan clayey sand With gravel	SC					M				No petro odor
G-15-2 (4'-8')	36		8	Gray sandy clay	CL					M				No petro odor
G-15-3 (8'-12')	36		12	Gray very fine to medium grained sand	SP					M				Petro odor
				12'-13' Gray sandy clay	SP									
G-15-4 (12'-16')	42		16	13'-16' Gray to black very fine to medium grained sand	SP					M/W				Petro odor and staining
				EOB at 16 feet. Borehole abandoned. Groundwater sample G-15-W collected at 12-16 feet.										

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

Signature: Matthew MacKenzie 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/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: River Bends Bar	License/Permit/Monitoring Number	Boring Number: MW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Todd Last Name: Knuckey; Firm: Range Environmental Drilling	Date Drilling Started: 06/11/2013	Date Drilling Completed: 06/11/2013	Drilling Method: Geoprobe/HSA
WI Unique Well No.: VN023	DNR Well ID No.:	Well Name: MW-1	Final Static Water Level: ~835 Feet MSL
Surface Elevation: ~845 Feet MSL	Borehole Diameter: 8.25 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ State Plane _____ N, _____ E	Lat 42°46'12" Long 89°28'51"	Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
NE 1/4 of NW 1/4 of Section 6, T 3 N, R 9 E			
Facility ID	County: Green	County Code: 23	Civil Town/City/ or Village: Brooklyn

Sample Number and 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	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Sand and gravel (fill)										
MW-1-1 (0-4 ft)	48 / 36		2	Gray to tan clay to sandy clay	CL			2160		M				Petro odor and staining
			4											
MW-1-2 (4-8 ft)	48 / 36		6					2430		M				Petro odor
			8											
MW-1-3 (8-12 ft)	48 / 48		10					760		M/W				Petro odor
			12	Tan vf-m grained sand	SP									
MW-1-4 (12-16 ft)	48 / 48		14	Tan sandy clay w/ gravel	CL			716		W				Petro odor
			16	EOB @ 16 feet. Installed monitoring well MW-1 to 16 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: [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/Revelopment ☒ Other ☐ _____

Page 1 of 1

Facility/Project Name: River Bends Bar	License/Permit/Monitoring Number	Boring Number: MW-2	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Todd Last Name: Knuchey; Firm: Range Environmental Drilling	Date Drilling Started: 06/11/2013	Date Drilling Completed: 06/11/2013	Drilling Method: Geoprobe/HSA
WI Unique Well No.: VN024	DNR Well ID No.:	Well Name: MW-2	Final Static Water Level: ~835 Feet MSL; Surface Elevation: ~845 Feet MSL; Borehole Diameter: 8.25 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E; NE 1/4 of NW 1/4 of Section 6, T 3 N, R 9 E	Lat 42°46'12" Long 89°28'51"	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
Facility ID	County: Green	County Code: 23	Civil Town/City/ or Village: Brooklyn

Sample Number and 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	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-2-1 (0-4 ft)	48 / 36		2–4	Brown to tan to gray f-m grained sand to clayey sand	SC			0		M				No petro odor
MW-2-2 (4-8 ft)	48 / 36		6–8					15		M				No petro odor
MW-2-3 (8-12 ft)	48 / 36		10–12					1100		M/W				Petro odor from 11-12'
MW-2-4 (12-16 ft)	48 / 36		14–16					980		W				Petro odor
			18–24	EOB @ 16 feet. Installed monitoring well MW-2 to 16 feet										

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

Signature: [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/Revelopment ☒ Other ☐ _____

Facility/Project Name: River Bends Bar	License/Permit/Monitoring Number	Boring Number: MW-3	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Todd Last Name: Knuckey; Firm: Range Environmental Drilling	Date Drilling Started: 06/11/2013	Date Drilling Completed: 06/11/2013	Drilling Method: GeoProbe/HSA
WI Unique Well No.: VN025	DNR Well ID No.:	Well Name: MW-3	Final Static Water Level: ~835 Feet MSL
Surface Elevation: ~845 Feet MSL	Borehole Diameter: 8.25 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E; NE 1/4 of NW 1/4 of Section 6, T 3 N, R 9 E	Lat 42°46'12" Long 89°28'51"	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
Facility ID	County: Green	County Code: 23	Civil Town / City / or Village: Brooklyn

Sample Number and 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	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-3-1 (0-4 ft)	48 / 36		2	Brown silty sand w/ gravel	SM			0		M				No petro odor
			4											
MW-3-2 (4-8 ft)	48 / 36		6	Brown sandy clay	CL			920		M/W				Petro odor from 7-8'
			8	Tan f-c grained sand	SP									
MW-3-3 (8-12 ft)	48 / 36		10	Brown clay to sandy clay w/ gravel	CL			750		W				Petro odor
			12											
MW-3-4 (12-16 ft)	48 / 36		14					20		W/M				Petro odor
			16	EOB @ 16 feet. Installed monitoring well MW-3 to 16 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: [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
River Bends Bar		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC	04/25/2017 MM/ DD/ YYYY	04/25/2017 MM /DD/ YYYY	Geoprobe/H.S.A

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR646		MW-4	≈837 Feet MSL	≈845 Feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 42° 46 ' 11.6 " N	N	E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Village of Albany

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
				Brown to tan very fine to medium grained silty sand (0-2 feet)	SM									
MW-4-1 (0-4 feet)	48 36		2	Brown silt/clay (2-4 feet)	CL			4.1		M				No Petro Odor
			4											
MW-4-2 (4-8 feet)	48 30		6	Brown silt/clay (4-7.5 feet)	CL			13		M				No Petro Odor
			8	Tan to light brown fine to medium grained sand to silty sand with gravel (7.5-8 feet)	SP/SM									
MW-4-3 (8-12 feet)	48 24		10	Tan to brown to black fine to medium grained sand to silty sand	SP/SM		See Well Construction Form	1497		W				Petro Odor & Staining (10-12 feet)
			12											
MW-4-4 (12-16 feet)	48 12		14	Tan to brown to black fine to medium grained sand to silty sand	SP/SM			1568		W				Petro Odor & Staining
			16	EOB @ 16 Feet. Installed monitoring well MW-4 to 15 feet with a 10 foot screen.										
			18											
			20											
			22											
			24											

Signature: Matthew C Mitchell Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
River Bends Bar		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Darrin Last: Prentice	04/25/2017	04/25/2017	Geoprobe/H.S.A
Firm: Geiss Soil & Samples, LLC	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VR647		MW-5	≈837 Feet MSL	≈845 Feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 42° 46 ' 11.6 " N	N E
NE ¼ of NW ¼ of Section 06 , T03N, R09E	Long 89° 28 ' 51.1" W	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
	Green	23	Village of Albany

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
				Gravel Dark brown to black sand and gravel (0-1 feet)	SP		See Well Construction Form							
				Brown sandy silt/clay with gravel (1-2 feet)	CL									
MW-5-1 (0-4 feet)	48 48		2	Orangish tan very fine to medium silty sand (2-3 feet)	SM			3.6		M				No Petro Odor
			4	Brown silt/clay with trace sand and gravel (3-4 feet)	CL									
				Brown silt/clay with trace sand and gravel (4-6 feet)	CL									
MW-5-2 (4-8 feet)	48 48		6	Brown fine to coarse grained sand to silty sand (6-8 feet)	SP/SM			8.9		M				No Petro Odor
			8											
MW-5-3 (8-12 feet)	48 48		10	Brown to dark brown fine to coarse grained sand to silty sand	SP/SM			36		W				No Petro Odor
			12											
MW-5-4 (12-16 feet)	48 48		14	Brown to dark brown fine to coarse grained sand to silty sand (12-15 feet)	SP/SM			94.1		W				Slight Petro Odor
				Brown to dark tan silt/clay with trace gravel (15-16 feet)	CL									
			16	EOB @ 16 Feet. Installed monitoring well MW-5 to 14 feet with a 10 foot screen.										
			18											
			20											
			22											
			24											

Signature: Firm: METCO

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report 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 this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-1 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/5/2012

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

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 (ft.) 28 (From groundsurface) Casing Diameter (in.) 2

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 11

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
[X] Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant/Gallons	Mix Ratio or Mud Weight
Bentonite Chips	Surface	14	21	
Bentonite - Cement Grout	14	28	2.8	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/5/2012

Signature of Person Doing Work | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-2 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/5/2012

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

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 (ft.) 12 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 11

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	12	18	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/5/2012

Signature of Person Doing Work | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-3 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 11.5

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person Doing~~ Work: [signature] | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-4 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _ _

(2) FACILITY/OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 28 (From groundsurface) Casing Diameter (in.) _____ Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 12.2

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
[X] Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant/Gallons	Mix Ratio or Mud Weight
Bentonite Chips	Surface	14	21	
Bentonite Cement Grout	14	28	2.8	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of Person Doing Work | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

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Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name G-5 | Gov't Lot (If applicable)

NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W
Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 12

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person Doing Work~~ | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

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WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report 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 this form may result in a forteiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-6 | Gov't Lot (If applicable)

NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W
Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 12

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person~~ Doing Work | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No.: _VN003_ _ _
DNR Well ID No.:
County: GREEN

Common Well Name: G-7-TW ____ Gov't Lot (If applicable)

NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W
Grid Location

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane ____ ft. N. ____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete
WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar
Facility ID:
License/Permit/Monitoring No.:
Street Address of Well: N7298 County Road X
City, Village, or Town: Albany

Present Well Owner: Ron Miller
Original Owner: Ron Miller
Street Address or Route of Owner: N7298 County Road X
City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 18 (From groundsurface)
Casing Diameter (in.) 2
Casing Depth (ft.)
Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

Depth to Water (Feet) 10.2

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	[X] Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	18	27	

(6) Comments: Removed entire temp well screen and casing.

(7) Name of Person or Firm Doing Sealing Work: E.Dahl (METCO)
Date of Abandonment: 9/7/2012

Signature of ~~Person~~ Doing Work: E Dahl
Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3
Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received:
Noted By:
Comments:

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-8 Gov't Lot (If applicable)

NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W
Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface)
Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 12

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO)

Date of Abandonment: 9/6/2012

Signature of Person Doing Work: E Dahl

Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3

Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-9 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface)
Casing Diameter (in.) _____
Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	[X] Yes	☐ No
Did Material Settle After 24 Hours?	☐ Yes	[X] No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of Person Doing Work: E. Dahl | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

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WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. | DNR Well ID No. | County: GREEN

Common Well Name: G-10 | Gov't Lot (If applicable):

NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

Grid Location

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person Doing~~ Work: E Dahl | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-11 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) _____

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	22.5	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person Doing~~ Work: [signature] | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice: Please complete Form 3300-5 and return it to the appropiate DNR office and bureau. Completion of this report 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 this form may result in a forteiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No.: _VN004_ _ _
DNR Well ID No.:
County: GREEN

Common Well Name: G-12-TW _____ Gov't Lot (If applicable)

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete
WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: River Bends Bar
Facility ID:
License/Permit/Monitoring No.:
Street Address of Well: N7298 County Road X
City, Village, or Town: Albany

Present Well Owner: Ron Miller
Original Owner: Ron Miller
Street Address or Route of Owner: N7298 County Road X
City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 14 (From groundsurface)
Casing Diameter (in.) 2
Casing Depth (ft.)
Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 8.85

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	[X] Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	14	21	

(6) Comments: Removed entire temp well screen and casing.

(7) Name of Person or Firm Doing Sealing Work: E.Dahl (METCO)
Date of Abandonment: 9/7/2012

Signature of ~~Person~~ Doing Work: E Dahl
Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3
Telephone Number: (608)781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received:
Noted By:
Comments:

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-13 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 15 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 13

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15	23	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of ~~Person~~ Doing Work | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

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WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000 Page 1 of 2

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

(1) GENERAL INFORMATION

WI Unique Well No.: VN005
DNR Well ID No.:
County: GREEN

Common Well Name: G-14-TW ____ Gov't Lot (If applicable)

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane ____ ft. N. ____ ft. E. S ☐ C ☐ N ☐ Zone

Reason For Abandonment: Sampling complete
WI Unique Well No. of Replacement Well: ____

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar
Facility ID:
License/Permit/Monitoring No.:
Street Address of Well: N7298 County Road X
City, Village, or Town: Albany
Present Well Owner: Ron Miller
Original Owner: Ron Miller
Street Address or Route of Owner: N7298 County Road X
City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) (From groundsurface): 20
Casing Diameter (in.): 2
Casing Depth (ft.):
Lower Drillhole Diameter (in.): 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown
If Yes, To What Depth? ____ Feet

Depth to Water (Feet): 14.56

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	[X] Yes	☐ No	☐ Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	20	30	

(6) Comments: Removed entire temp well screen and casing.

(7) Name of Person or Firm Doing Sealing Work: E.Dahl (METCO)
Date of Abandonment: 9/7/2012

Signature of Person Doing Work: [signature]
Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3
Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY USE ONLY

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: GREEN

Common Well Name: G-15 | Gov't Lot (If applicable):

Grid Location: NE 1/4 of NW 1/4 of Sec. 6 ; T. 3 N; R. 9 [X] E ☐ W

_____ ft. ☐ N. ☐ S., _____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. 42 ° 46 ' 11.6 " Long 89 ° 28 ' 51.1 " or

St. Plane _____ ft. N. _____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY / OWNER INFORMATION

Facility Name: River Bends Bar

Facility ID | License/Permit/Monitoring No.

Street Address of Well: N7298 County Road X

City, Village, or Town: Albany

Present Well Owner: Ron Miller | Original Owner: Ron Miller

Street Address or Route of Owner: N7298 County Road X

City, State, Zip Code: Albany WI 53502-

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 9/6/2012

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

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 (ft.) 16 (From groundsurface) Casing Diameter (in.) _____

Casing Depth (ft.) _____

Lower Drillhole Diameter (in.) 2

Was Well Annular Space Grouted? ☐ Yes ☐ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 14

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	[X] Not Applicable
Liner(s) Removed?	☐ Yes	☐ No	[X] Not Applicable
Screen Removed?	☐ Yes	☐ No	[X] Not Applicable
Casing Left in Place?	☐ Yes	[X] No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	[X] Yes	☐ No	
Did Material Settle After 24 Hours?	☐ Yes	[X] No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain) Gravity

Sealing Materials
☐ Neat Cement Grout
☐ Sand-Cement (Concrete) Grout
☐ Concrete
☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Bentonite-Sand Slurry " "
☐ Bentonite Chips

For monitoring wells and monitoring well boreholes only
[X] Bentonite Chips
☐ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole

Material	From (Ft.)	To (Ft.)	lbs. Sealant	Mix Ratio or Mud Weight
Bentonite Chips	Surface	16	24	

(6) Comments: Abandoned by Cory Johnson of Soil Essentials under METCO supervisor.

(7) Name of Person or Firm Doing Sealing Work: C. Johnson/E.Dahl (METCO) | Date of Abandonment: 9/6/2012

Signature of Person Doing Work: E Dahl | Date Signed: 9/25/12

Street or Route: 709 Gillette St. Ste. 3 | Telephone Number: (608) 781-8879

City, State, Zip Code: LaCrosse WI 54603-

FOR DNR OR COUNTY 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

10-31 20 13

CUSTOMER: Ron Miller % Metso
209 Gillette St
La Crosse WI 54603

JOB NAME: River Bend Bar
N7298 CTH X
Albany WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	MOBILIZATION	1	274 -	274 -
	3	Haul soil drums to Advanced Disposal	3	103 -	309 -
	1	Haul water drum to Advanced Disposal	1	40 10	40 10
		Thank You			
				TOTAL	623 10

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE _____

85

Env. Waste Disposal
Received 11/4/13
OK

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

INVOICE

7-7 20 17

CUSTOMER: Marco % Tina Klitzke
709 6th St
La Crosse WI 54603

JOB NAME: River Bend Bar
Albany WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE		AMOUNT	
	1	Mobilization	1	287	70	287	70
	2	Haul soil drums to Advanced Disposal - Eau Claire WI	2	108	15	216	30
		Thank You					
		Mark Sell					
					TOTAL	504	—

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

190

SIGNATURE _____

Inv. Waste Disposal
Reviewed 7/10/17
OK

APPENDIX E/ OTHER DOCUMENTATION

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be landfilled[5]	Site Investigation, Pretreatment and Posttreatment Sample Analysis[11]
Regular Gasoline	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO VOC/PVOC[15] Pb[12]
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO[3]	Free Liquids[6] DRO Benzene[7] Haz. Waste Deter.[8]	DRO[3] PVOC PAH[13 14]
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO[3]	Free Liquids[6] DRO Haz. Waste Deter.[8]	DRO[3] PAH[13 14]
Unknown Petroleum	GRO[7] and DRO[3 4]	Free Liquids[6] GRO and DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	GRO and DRO[3 4] VOC/PVOC[15] PAH[13 14] Pb, Cd[12]
Waste Oil	DRO[3]	Free Liquids[6] DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	DRO[3] VOC/PVOC[15] PAH[13 14] PCBs[16] Pb, Cd[12]

Abbreviations:

GRO - Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method

DRO - Diesel Range Organics, Determined by the Wisconsin Modified DRO Method

VOC - Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)

PVOC - Petroleum Organic Compounds (See Section 11.2 for a list of PVOC compounds)

PAH - Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 1
SAMPLE & PRESERVATION REQUIREMENTS FOR WATER and DRINKING WATER SAMPLES

Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H_2SO_4	28 days
Chloride EPA 300.0/EPA 325.2	250 mL HDPE	4°C	28 days
Cyanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 mL HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C, pH<2 with HNO_3	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H_2SO_4 or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Sulfate EPA 300.0	250 mL HDPE	4°C	28 days
Total Dissolved Solids EPA 160.1	250 ml HDPE	4°C	7 days
Total Solids EPA 160.3	250 ml HDPE	4°C	7 days
Total Suspended Solids EPA 160.2	250 mL HDPE	4°C	7 days
METALS			
Metals	250 mL HDPE	4°C, pH<2 with HNO_3	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO_3	28 days
ORGANICS			
Semivolatiles SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted .	4°C	7 days extr. 40 days following extr
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCl	7 days extr. 40 days following extr
VOC'S SW846 8260B/EPA524.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

All samples are to be cooled to 4°C until tested.
HDPE = High Density Polyethylene.

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 2
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

Test	Original Sample Container	Preserved	Holding Times from Date and Time of Collection			
			Solvent Addition	Shipping	Extraction	Analysis
METALS						
Metals	2 oz glass or soil cup	4°C	NA	NA	NA	180 days
Mercury SW846 7471	2 oz glass or soil cup	4°C	NA	NA	NA	28 days
Chromium Hexavalent SM3500-Cr	2 oz glass or soil cup	4°C	NA	NA	NA	24 hours
ORGANICS						
Any combinations of GRO, VOC, PVOC	1- tared VOC vial with 10 mls methanol, 13 grams of soil collected with syringe	4°C, 1:1 with methanol	Immediately	4 days	21 days	21 days
DRO, Modified	1- tared VOC vial, 13 grams of soil collected with syringe jar	4°C, Hexane	10 days	4 days	47 days	47 days
PAH, SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
Semivolatile SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
PCB SW846 8082	2 oz glass untared	4°C	NA	NA	14 days	40 days

All samples are to be cooled to 4°C until tested.

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone).
Not-to-Exceed D-C RCL defaults to 100,000 mg/kg if web-calculator result or Csat exceeds 10% by weight (the ceiling limit concentration defined in EPA RSL Users Guide).
Basis: ca = cancer; nc = non-cancer; Csat = soil saturation concentration; ceiling = 10%.

Background threshold values are non-outlier trace element maximum levels in Wisconsin surface soils from the USGS Report at: *http://pubs.usgs.gov/sir/2011/5092/*.

1. ***Enter data in yellow cells.*** Numeric-only values under "INPUT Site Data." For ND, use detection limit. Do not type '<', 'NA' nor 'space bar.' Leave purple cells "as is."
2. ***After completing data entry, see Summary in Row 924.***

A.7 Other

Site Name:

Sample ID:

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	Background Threshold Value (mg/kg)	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	1,106.000	1.600	1.600	ca					
Ethylbenzene	100-41-4	4,080.000	8.020	8.020	ca					
Toluene	108-88-3	5,240.000	-	818.000	Csat					
Xylenes	1330-20-7	818.000	-	260.000	Csat					
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.000	63.800	63.800	ca					
Dichloroethane, 1,2-	107-06-2	43.700	.652	.652	ca					
Dibromoethane, 1,2-	106-93-4	100.000	.050	.050	ca					
Trichloroethylene	79-01-6	5.680	1.300	1.300	ca					
Tetrachloroethylene	127-18-4	109.000	33.000	33.000	ca					
Vinyl Chloride	75-01-4	89.200	.067	.067	ca					
Dichloroethylene, 1,1-	75-35-4	320.000	-	320.000	nc					
Dichloroethylene, 1,2-trans-	156-60-5	1,560.000	-	1,560.000	nc					
Dichloroethylene, 1,2-cis-	156-59-2	156.000	-	156.000	nc					
Trichloroethane, 1,1,1-	71-55-6	11,500.000	-	640.000	Csat					
Carbon Tetrachloride	56-23-5	131.000	.916	.916	ca					
Trimethylbenzene, 1,2,4-	95-63-6	373.000	-	219.000	Csat					
Trimethylbenzene, 1,3,5-	108-67-8	339.000	-	182.000	Csat					
Naphthalene	91-20-3	178.000	5.520	5.520	ca					
Benzo[a]pyrene	50-32-8	17.800	.115	.115	ca					
Acenaphthene	83-32-9	3,590.000	-	3,590.000	nc					
Acenaphthylene	208-96-8	-	-							
Anthracene	120-12-7	17,900.000	-	17,900.000	nc					
Benz[a]anthracene	56-55-3	-	1.140	1.140	ca					
Benzo(j)fluoranthene	205-82-3	-	.424	.424	ca					
Benzo[b]fluoranthene	205-99-2	-	1.150	1.150	ca					
Benzo[g,h,i]perylene	191-24-2	-	-							
Benzo[k]fluoranthene	207-08-9	-	11.500	11.500	ca					
Chrysene	218-01-9	-	115.000	115.000	ca					
Dibenz[a,h]anthracene	53-70-3	-	.115	.115	ca					
Dibenzo(a,e)pyrene	192-65-4	-	.042	.042	ca					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	4.59E-04	4.59E-04	ca					
Fluoranthene	206-44-0	2,390.000	-	2,390.000	nc					
Fluorene	86-73-7	2,390.000	-	2,390.000	nc					
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.150	1.150	ca					
Methylnaphthalene, 1-	90-12-0	4,180.000	17.600	17.600	ca					
Methylnaphthalene, 2-	91-57-6	239.000	-	239.000	nc					
Nitropyrene, 4-	57835-92-4	-	.424	.424	ca					
Perylene	198-55-0	-	-							
Phenanthrene	85-01-8	-	-							
Pyrene	129-00-0	1,790.000	-	1,790.000	nc					
Lead and Compounds	7439-92-1	400.000	-	400.000		.52				
Bromobenzene	108-86-1	342.000	-	342.000	nc					
Bromodichloromethane	75-27-4	1,560.000	.418	.418	ca					
Bromoform	75-25-2	1,560.000	25.400	25.400	ca					
Butylbenzene, n-	104-51-8	3,910.000	-	108.000	Csat					
Butylbenzene, sec-	135-98-8	7,820.000	-	145.000	Csat					
Butylbenzene, tert-	98-06-6	7,820.000	-	183.000	Csat					
Chlorobenzene	108-90-7	370.000	-	370.000	nc					
Chloroform	67-66-3	259.000	.454	.454	ca					
Chloromethane	74-87-3	159.000	-	159.000	nc					
Chlorotoluene, o-	95-49-8	1,560.000	-	907.000	Csat					
Chlorotoluene, p-	106-43-4	1,560.000	-	253.000	Csat					
Dibromo-3-chloropropane, 1,2-	96-12-8	5.960	.008	.008	ca					
Dibromochloromethane	124-48-1	1,560.000	8.280	8.280	ca					
Dichlorobenzene, 1,2-	95-50-1	2,350.000	-	376.000	Csat					
Dichlorobenzene, 1,3-	541-73-1	-	-	297.000	Csat					
Dichlorobenzene, 1,4-	106-46-7	3,810.000	3.740	3.740	ca					
Dichlorodifluoromethane	75-71-8	126.000	-	126.000	nc					
Dichloroethane, 1,1-	75-34-3	15,600.000	5.060	5.060	ca					
Dichloropropane, 1,2-	78-87-5	22.600	.406	.406	ca					
Dichloropropane, 1,3-	142-28-9	1,560.000	-	1,490.000	Csat					
Dichloropropane, 2,2-	594-20-7	-	-	191.000	Csat					
Diisopropyl Ether	108-20-3	3,220.000	-	2,260.000	Csat					
Hexachlorobutadiene	87-68-3	78.200	1.630	1.630	ca					
Isopropyltoluene, p-	99-87-6	-	-	162.000	Csat					
Methylene Chloride	75-09-2	379.000	61.800	61.800	ca					
Tetrachloroethane, 1,1,1,2-	630-20-6	2,350.000	2.780	2.780	ca					
Tetrachloroethane, 1,1,2,2-	79-34-5	1,560.000	.810	.810	ca					
Trichlorobenzene, 1,2,3-	87-61-6	62.600	-	62.600	nc					
Trichlorobenzene, 1,2,4-	120-82-1	80.800	24.000	24.000	ca					
Trichloroethane, 1,1,2-	79-00-5	2.160	1.590	1.590	ca					
Trichlorofluoromethane	75-69-4	23,500.000	-	1,230.000	Csat					
Test1Chem(DRO)	Wis. DRO									
Test2Chem(GRO)	Wis. GRO									
Test3Chem(TPH)	TPH									

Type BRRTS No. Here (If Known)

Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 | 0.00E+00 | 0.00E+00

To Pass, data must meet all these criteria: Exceedance Count = 0 | HI ≤ 1.0 | Cumulative CR ≤ 1e-05

Summary

Bottom-Line:

Soil Data Entry Needed!

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Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

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 groundwate 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.

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!
Fluoride	7782-41-4	4000	4000	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3490	2.23E+00		4.47E+00		
Formaldehyde	50-00-0	-	1000	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1	1	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600	4.22E+00		8.44E+00		
Lead	7439-92-1	15	15	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300	1.96E+01		3.91E+01		
Mercury	7439-97-6	2	2	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5000	1.01E+00		2.03E+00		
Methoxychlor	72-43-5	40	40	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5	5	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4000	8.39E-01		1.68E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	1.13E-01		2.26E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100	1.17E-01		2.34E-01		
Metribuzin	21087-64-9	-	70	2.14E-02		4.28E-02		
Molybdenum	7439-98-7	-	40	8.08E-01		1.62E+00		
Monochlorobenzene	108-90-7	100	100	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100	3.29E-01		6.59E-01		
Nickel	7440-02-0	-	100	6.50E+00		1.30E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1	1	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2000	1.15E+00		2.30E+00		
Picloram	1918-02-1	500	500	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100	4.75E-02		9.49E-02		
Propazine	139-40-2	-	10	8.86E-03		1.77E-02		
Pyrene (PAH)	129-00-0	-	250	2.72E+01		5.45E+01		
Pyridine	110-86-1	-	10	3.44E-03		6.87E-03		
Selenium	7782-49-2	50	50	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50	4.25E-01		8.50E-01		
Simazine	122-34-9	4	4	1.97E-03		3.94E-03		
Styrene	100-42-5	100	100	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70	2.67E-02		5.33E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5	5	2.27E-03		4.54E-03		
Tetrahydrofuran	109-99-9	-	50	1.11E-02		2.22E-02		
Thallium	7440-28-0	2	2	1.42E-01		2.84E-01		
Toluene	108-88-3	1000	800	5.54E-01		1.11E+00		
Toxaphene	8001-35-2	3	3	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70	70	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200	200	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5	5	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5	5	1.79E-03		3.58E-03		
[illegible]	93-72-1	50	50	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60	2.60E-02		5.20E-02		
Trifluralin	1582-09-8	-	7.5	2.48E-01		4.95E-01		
[illegible]	95-63-6 / 108-67-8	-	480	6.90E-01		1.38E+00		
Vanadium	7440-62-2							
Vinyl chloride	75-01-4	2	0.2	6.90E-05		1.38E-04		
Xylenes (m-, o-, p- combined)	1330-20-7	10000	2000	1.97E+00		3.94E+00		

Type BRRTS No. Here (If Known). Assess groundwater levels separately.

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly 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

Output generated 15JUN2016:11:20:47

Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{0-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{rec-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{rec-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{rec-c} (soil intake rate - child) mg/day	200
IRS_{rec-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
$DFS_{rec-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{rec-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Chicago, IL (7)
A_s (acres)	.5
Q/C_{wp} (g/m^2-s per kg/m^3)	98.430714368855
PEF (particulate emission factor) m ^{3}/kg	1560521176.9649
A (PEF Dispersion Constant)	16.8653
B (PEF Dispersion Constant)	18.7848
C (PEF Dispersion Constant)	215.0624
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.65
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.182
City (Climate Zone) VF Selection	Chicago, IL (7)
A_s (acres)	.5
Q/C_{vol} (g/m^2-s per kg/m^3)	98.430714368855

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Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_{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_r (acres)	.5
T (exposure interval) yr	26
d_r (depth of source) m	.
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
A (VF Dispersion Constant - Mass Limit)	16.8653
B (VF Dispersion Constant - Mass Limit)	18.7848
C (VF Dispersion Constant - Mass Limit)	215.0624

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide).
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref
Benzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I	3.00E-02	I
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	I	6.00E-04	I	9.00E-03	I	9.00E-03	I
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	I	2.60E-05	I	6.00E-03	S	7.00E-03	P
Ethylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I	1.00E+00	I
Lead and Compounds	7439-92-1	No	No	-		-		-		-	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	C	2.60E-07	C	-		3.00E+00	I
Acenaphthene	83-32-9	No	Yes	-		-		6.00E-02	I	-	
Anthracene	120-12-7	No	Yes	-		-		3.00E-01	I	-	
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	W	1.10E-04	C	-		-	
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	C	1.10E-04	C	-		-	
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	I	1.10E-03	C	-		-	
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	W	1.10E-04	C	-		-	
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	W	1.10E-04	C	-		-	
Chrysene	218-01-9	Yes	No	7.30E-03	W	1.10E-05	C	-		-	
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	W	1.20E-03	C	-		-	
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	C	1.10E-03	C	-		-	
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	C	7.10E-02	C	-		-	
Fluoranthene	206-44-0	No	No	-		-		4.00E-02	I	-	
Fluorene	86-73-7	No	Yes	-		-		4.00E-02	I	-	
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	W	1.10E-04	C	-		-	
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	P	-		7.00E-02	A	-	
Methylnaphthalene, 2-	91-57-6	No	Yes	-		-		4.00E-03	I	-	
Naphthalene	91-20-3	No	Yes	-		3.40E-05	C	2.00E-02	I	3.00E-03	I
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-		-	
Pyrene	129-00-0	No	Yes	-		-		3.00E-02	I	-	
Toluene	108-88-3	No	Yes	-		-		8.00E-02	I	5.00E+00	I
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-		-		-		7.00E-03	P
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	S	-	
Xylenes	1330-20-7	No	Yes	-		-		2.00E-01	I	1.00E-01	I

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	GIABS	ABS	RBA	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)
Benzene	1	-	1	5.10E+03	1.82E+03	1.56E+09	1.26E+01	-	1.84E+00	1.60E+00
Dibromoethane, 1,2-	1	-	1	1.25E+04	1.34E+03	1.56E+09	3.48E-01	-	5.84E-02	5.00E-02
Dichloroethane, 1,2-	1	-	1	6.60E+03	2.98E+03	1.56E+09	7.64E+00	-	7.13E-01	6.52E-01
Ethylbenzene	1	-	1	8.18E+03	4.80E+02	1.56E+09	6.32E+01	-	9.19E+00	8.02E+00
Lead and Compounds	1	-	1	-	-	1.56E+09	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1	-	1	7.08E+03	8.87E+03	1.56E+09	3.86E+02	-	7.64E+01	6.38E+01
Acenaphthene	1	0.13	1	2.03E+05	-	1.56E+09	-	-	-	-
Anthracene	1	0.13	1	7.56E+05	-	1.56E+09	-	-	-	-
Benz[a]anthracene	1	0.13	1	6.37E+06	-	1.56E+09	2.10E-01	6.29E-01	5.85E+01	1.57E-01
Benzo(j)fluoranthene	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Benzo[a]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.44E+03	1.57E-02
Benzo[b]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Benzo[k]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E+00	6.29E+00	1.44E+04	1.57E+00
Chrysene	1	0.13	1	-	-	1.56E+09	2.10E+01	6.29E+01	1.44E+05	1.57E+01
Dibenz[a,h]anthracene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.32E+03	1.57E-02
Dibenzo(a,e)pyrene	1	0.13	1	-	-	1.56E+09	5.79E-02	1.58E-01	3.98E+03	4.24E-02
Dimethylbenz(a)anthracene, 7,12-	1	0.13	1	-	-	1.56E+09	6.13E-04	1.84E-03	2.23E+01	4.59E-04
Fluoranthene	1	0.13	1	-	-	1.56E+09	-	-	-	-
Fluorene	1	0.13	1	4.06E+05	-	1.56E+09	-	-	-	-
Indeno[1,2,3-cd]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Methylnaphthalene, 1-	1	0.13	1	8.46E+04	3.94E+02	1.56E+09	2.40E+01	6.55E+01	-	1.76E+01
Methylnaphthalene, 2-	1	0.13	1	8.37E+04	-	1.56E+09	-	-	-	-
Naphthalene	1	0.13	1	6.69E+04	-	1.56E+09	-	-	5.52E+00	5.52E+00
Nitropyrene, 4-	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Pyrene	1	0.13	1	3.43E+06	-	1.56E+09	-	-	-	-
Toluene	1	-	1	6.19E+03	8.18E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,2,4-	1	-	1	1.14E+04	2.19E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,3,5-	1	-	1	9.54E+03	1.82E+02	1.56E+09	-	-	-	-
Xylenes	1	-	1	8.28E+03	2.60E+02	1.56E+09	-	-	-	-

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Site-specific

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	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

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(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 for 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
River Bends Bar BRRTS # 03-23-198810
Slug Test Calculations

MW-1

	ft/s	cm/s	m/yr
K	1.08E-06	3.29E-05	10.38
	sq ft/s	**sq cm/s**	
T	7.50E-06	6.97E-03	

MW-2

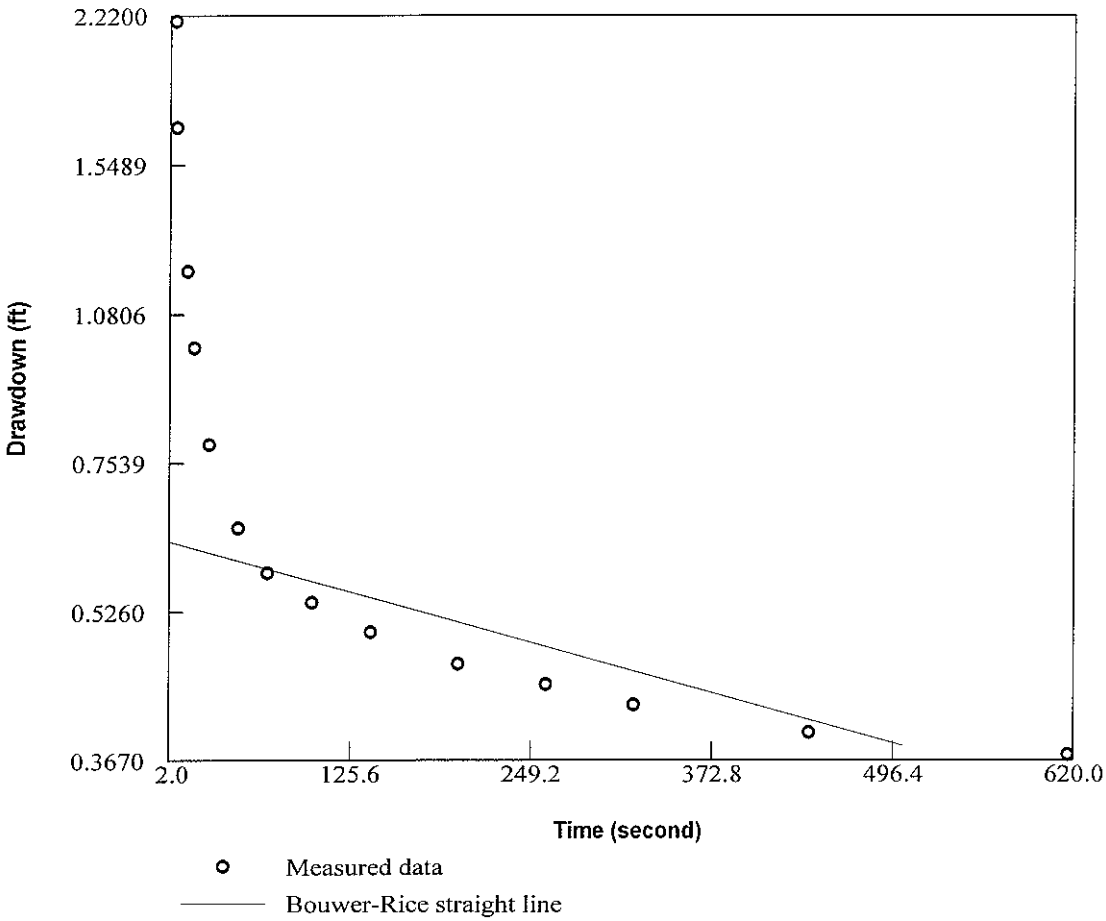
	ft/s	cm/s	m/yr
K	5.77E-05	1.76E-03	554.62
	sq ft/s	**sq cm/s**	
T	4.14E-04	3.85E-01	

MW-3

	ft/s	cm/s	m/yr
K	1.24E-06	3.78E-05	11.92
	sq ft/s	**sq cm/s**	
T	1.16E-05	1.08E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
7/11/2013	835.04	831.78	89	0.0366292
10/15/2013	833.89	830.74	89	0.0353933
5/4/2017	834.92	829.24	134	0.0423881
8/3/2017	835.00	828.88	134	0.0456716
Average				0.0400205

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	10.38	0.0400205	0.3	1.38486
MW-2	554.6223706	0.0400205	0.3	73.98763
MW-3	11.91909427	0.0400205	0.3	1.59003



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	1.08e-006
Transmissivity (sq ft/s):	7.50e-006

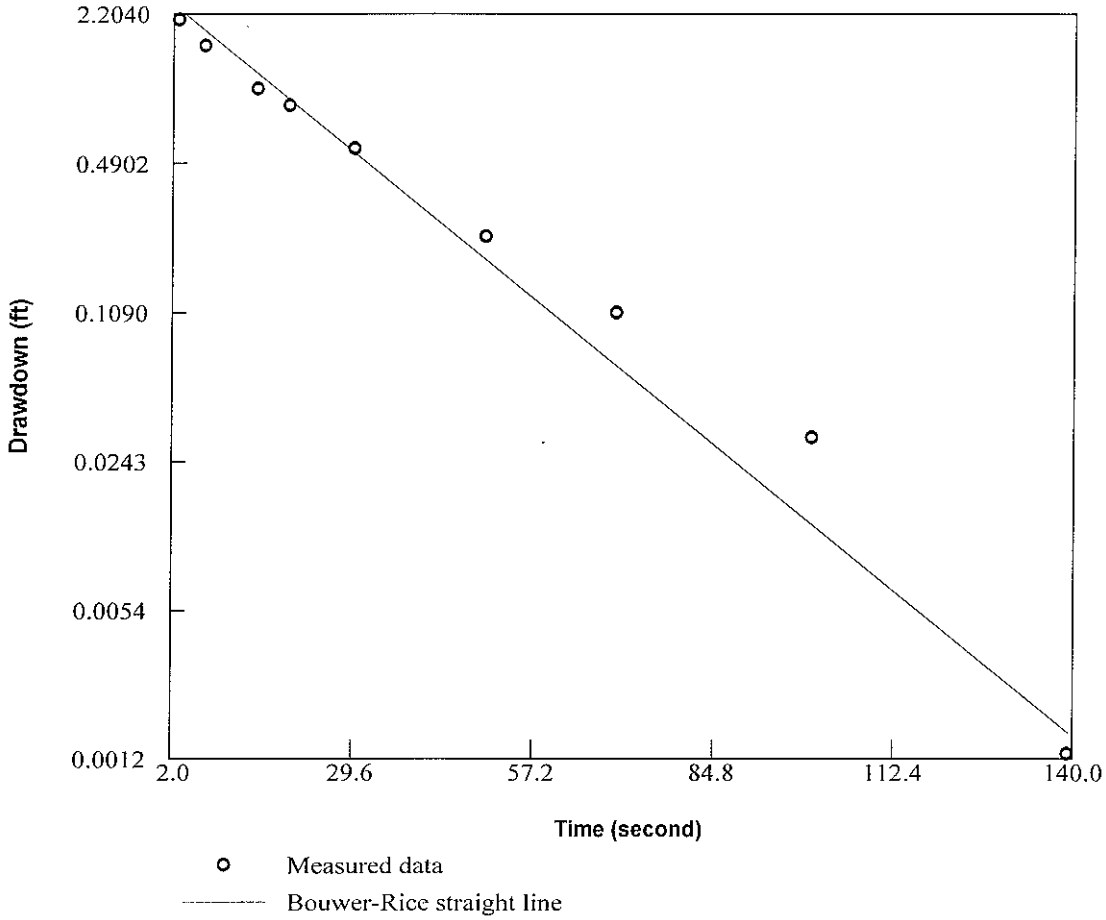
River Bends Bar MW-1 Slug Out

Test 11 MW-1 Slug Out	
SE20	0
Environment	al Logger
01/01 1	8:03
Unit# 281	Test 11
Setups:	INPUT 1
---	---
Type	Level (F)
Mode	TOC
I.D.	
Reference	9.03
PSI at Ref.	3.018
SG	1
Linearity	0
Scale factor	10.011
Offset	-0.014
Delay mSEC	50
Step 0 01/01	3:47:50

Elapsed Time	INPUT 1	Drawdown	Time(min)	Adjusted Time (min)	Adjusted Time (sec)
0	9.03	0	0		
0.0083	9.026	-0.004	0.0083		
0.0166	9.026	-0.004	0.0166		
0.025	9.026	-0.004	0.025		
0.0333	10.034	1.004	0.0333		
0.0416	7.993	-1.037	0.0416		
0.05	9.538	0.508	0.05		
0.0583	8.764	-0.266	0.0583	0	0
0.0666	12.239	3.209	0.0666	0.0083	0.498
0.075	11.525	2.495	0.075	0.0167	1.002
0.0833	11.329	2.299	0.0833	0.025	1.5
0.0916	11.25	2.22	0.0916	0.0333	1.998
0.1	11.168	2.138	0.1	0.0417	2.502
0.1083	11.114	2.084	0.1083	0.05	3
0.1166	11.057	2.027	0.1166	0.0583	3.498
0.125	11.004	1.974	0.125	0.0667	4.002
0.1333	10.953	1.923	0.1333	0.075	4.5
0.1416	10.906	1.876	0.1416	0.0833	4.998
0.15	10.858	1.828	0.15	0.0917	5.502
0.1583	10.814	1.784	0.1583	0.1	6
0.1666	10.77	1.74	0.1666	0.1083	6.498
0.175	10.729	1.699	0.175	0.1167	7.002
0.1833	10.691	1.661	0.1833	0.125	7.5
0.1916	10.653	1.623	0.1916	0.1333	7.998
0.2	10.615	1.585	0.2	0.1417	8.502
0.2083	10.577	1.547	0.2083	0.15	9
0.2166	10.546	1.516	0.2166	0.1583	9.498
0.225	10.511	1.481	0.225	0.1667	10.002
0.2333	10.479	1.449	0.2333	0.175	10.5
0.2416	10.448	1.418	0.2416	0.1833	10.998
0.25	10.419	1.389	0.25	0.1917	11.502
0.2583	10.388	1.358	0.2583	0.2	12
0.2666	10.359	1.329	0.2666	0.2083	12.498
0.275	10.334	1.304	0.275	0.2167	13.002
0.2833	10.306	1.276	0.2833	0.225	13.5
0.2916	10.28	1.25	0.2916	0.2333	13.998
0.3	10.255	1.225	0.3	0.2417	14.502

0.3083	10.23	1.2	0.3083	0.25	15
0.3166	10.208	1.178	0.3166	0.2583	15.498
0.325	10.186	1.156	0.325	0.2667	16.002
0.3333	10.163	1.133	0.3333	0.275	16.5
0.35	10.122	1.092	0.35	0.2917	17.502
0.3666	10.081	1.051	0.3666	0.3083	18.498
0.3833	10.047	1.017	0.3833	0.325	19.5
0.4	10.015	0.985	0.4	0.3417	20.502
0.4166	9.987	0.957	0.4166	0.3583	21.498
0.4333	9.958	0.928	0.4333	0.375	22.5
0.45	9.933	0.903	0.45	0.3917	23.502
0.4666	9.911	0.881	0.4666	0.4083	24.498
0.4833	9.889	0.859	0.4833	0.425	25.5
0.5	9.873	0.843	0.5	0.4417	26.502
0.5166	9.854	0.824	0.5166	0.4583	27.498
0.5333	9.841	0.811	0.5333	0.475	28.5
0.55	9.825	0.795	0.55	0.4917	29.502
0.5666	9.813	0.783	0.5666	0.5083	30.498
0.5833	9.8	0.77	0.5833	0.525	31.5
0.6	9.791	0.761	0.6	0.5417	32.502
0.6166	9.781	0.751	0.6166	0.5583	33.498
0.6333	9.772	0.742	0.6333	0.575	34.5
0.65	9.762	0.732	0.65	0.5917	35.502
0.6666	9.753	0.723	0.6666	0.6083	36.498
0.6833	9.746	0.716	0.6833	0.625	37.5
0.7	9.737	0.707	0.7	0.6417	38.502
0.7166	9.731	0.701	0.7166	0.6583	39.498
0.7333	9.724	0.694	0.7333	0.675	40.5
0.75	9.718	0.688	0.75	0.6917	41.502
0.7666	9.712	0.682	0.7666	0.7083	42.498
0.7833	9.705	0.675	0.7833	0.725	43.5
0.8	9.702	0.672	0.8	0.7417	44.502
0.8166	9.696	0.666	0.8166	0.7583	45.498
0.8333	9.69	0.66	0.8333	0.775	46.5
0.85	9.686	0.656	0.85	0.7917	47.502
0.8666	9.683	0.653	0.8666	0.8083	48.498
0.8833	9.677	0.647	0.8833	0.825	49.5
0.9	9.674	0.644	0.9	0.8417	50.502
0.9166	9.668	0.638	0.9166	0.8583	51.498
0.9333	9.664	0.634	0.9333	0.875	52.5
0.95	9.661	0.631	0.95	0.8917	53.502
0.9666	9.658	0.628	0.9666	0.9083	54.498
0.9833	9.655	0.625	0.9833	0.925	55.5
1	9.652	0.622	1	0.9417	56.502
1.2	9.62	0.59	1.2	1.1417	68.502
1.4	9.598	0.568	1.4	1.3417	80.502
1.6	9.579	0.549	1.6	1.5417	92.502
1.8	9.563	0.533	1.8	1.7417	104.502
2	9.551	0.521	2	1.9417	116.502
2.2	9.541	0.511	2.2	2.1417	128.502
2.4	9.532	0.502	2.4	2.3417	140.502
2.6	9.522	0.492	2.6	2.5417	152.502
2.8	9.516	0.486	2.8	2.7417	164.502
3	9.51	0.48	3	2.9417	176.502
3.2	9.5	0.47	3.2	3.1417	188.502
3.4	9.494	0.464	3.4	3.3417	200.502
3.6	9.491	0.461	3.6	3.5417	212.502
3.8	9.484	0.454	3.8	3.7417	224.502
4	9.478	0.448	4	3.9417	236.502
4.2	9.475	0.445	4.2	4.1417	248.502
4.4	9.472	0.442	4.4	4.3417	260.502
4.6	9.465	0.435	4.6	4.5417	272.502

4.8	9.462	0.432	4.8	4.7417	284.502
5	9.459	0.429	5	4.9417	296.502
5.2	9.456	0.426	5.2	5.1417	308.502
5.4	9.45	0.42	5.4	5.3417	320.502
5.6	9.446	0.416	5.6	5.5417	332.502
5.8	9.443	0.413	5.8	5.7417	344.502
6	9.443	0.413	6	5.9417	356.502
6.2	9.44	0.41	6.2	6.1417	368.502
6.4	9.437	0.407	6.4	6.3417	380.502
6.6	9.434	0.404	6.6	6.5417	392.502
6.8	9.431	0.401	6.8	6.7417	404.502
7	9.427	0.397	7	6.9417	416.502
7.2	9.424	0.394	7.2	7.1417	428.502
7.4	9.424	0.394	7.4	7.3417	440.502
7.6	9.421	0.391	7.6	7.5417	452.502
7.8	9.418	0.388	7.8	7.7417	464.502
8	9.418	0.388	8	7.9417	476.502
8.2	9.415	0.385	8.2	8.1417	488.502
8.4	9.412	0.382	8.4	8.3417	500.502
8.6	9.412	0.382	8.6	8.5417	512.502
8.8	9.409	0.379	8.8	8.7417	524.502
9	9.405	0.375	9	8.9417	536.502
9.2	9.402	0.372	9.2	9.1417	548.502
9.4	9.402	0.372	9.4	9.3417	560.502
9.6	9.402	0.372	9.6	9.5417	572.502
9.8	9.399	0.369	9.8	9.7417	584.502
10	9.399	0.369	10	9.9417	596.502
11	9.393	0.363	11	10.9417	656.502
12	9.386	0.356	12	11.9417	716.502
13	9.38	0.35	13	12.9417	776.502
14	9.374	0.344	14	13.9417	836.502
15	9.371	0.341	15	14.9417	896.502



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	5.77e-005
Transmissivity (sq ft/s):	4.14e-004

River Bends Bar MW-2 Slug Out

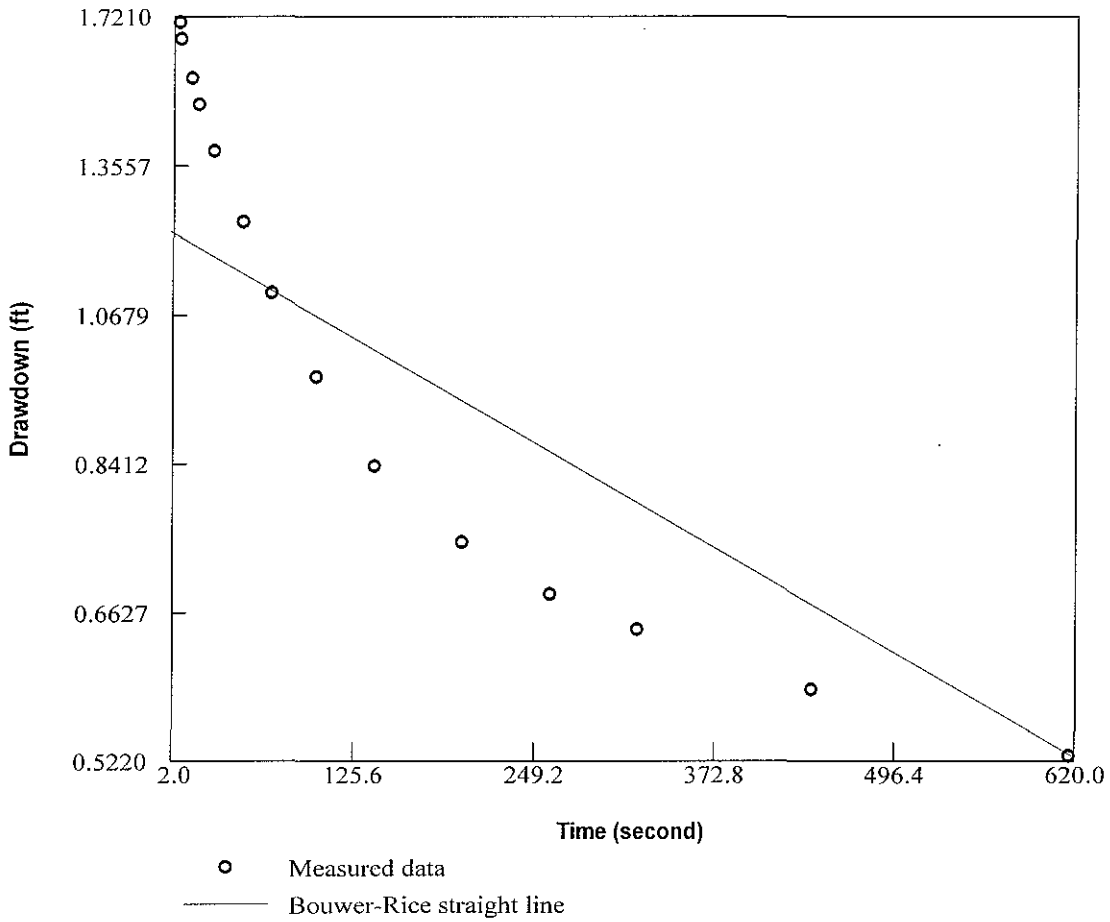
Test 5 MW-2 Slug Out

SE20	0
Environment	al Logger
01/01 1	9:20
Unit# 281	Test 5
Setups:	INPUT 1
---	---
Type	Level (F)
Mode	TOC
I.D.	
Reference	8.83
PSI at Ref.	2.971
SG	1
Linearity	0
Scale factor	10.011
Offset	-0.014
Delay mSEC	50
Step 0 01/01	2:12:43

Elapsed Time	INPUT 1	Drawdown	Time(min)	Adjusted Time (min)	Adjusted Time (sec)
0	8.83	0	0		
0.0083	8.826	-0.004	0.0083		
0.0166	8.83	0	0.0166		
0.025	8.826	-0.004	0.025		
0.0333	9.468	0.638	0.0333		
0.0416	7.838	-0.992	0.0416		
0.05	10.671	1.841	0.05		
0.0583	8.372	-0.458	0.0583		
0.0666	10.892	2.062	0.0666	0	0
0.075	11.268	2.438	0.075	0.0084	0.504
0.0833	11.183	2.353	0.0833	0.0167	1.002
0.0916	11.097	2.267	0.0916	0.025	1.5
0.1	11.034	2.204	0.1	0.0334	2.004
0.1083	10.958	2.128	0.1083	0.0417	2.502
0.1166	10.905	2.075	0.1166	0.05	3
0.125	10.826	1.996	0.125	0.0584	3.504
0.1333	10.769	1.939	0.1333	0.0667	4.002
0.1416	10.718	1.888	0.1416	0.075	4.5
0.15	10.661	1.831	0.15	0.0834	5.004
0.1583	10.605	1.775	0.1583	0.0917	5.502
0.1666	10.557	1.727	0.1666	0.1	6
0.175	10.51	1.68	0.175	0.1084	6.504
0.1833	10.456	1.626	0.1833	0.1167	7.002
0.1916	10.409	1.579	0.1916	0.125	7.5
0.2	10.365	1.535	0.2	0.1334	8.004
0.2083	10.32	1.49	0.2083	0.1417	8.502
0.2166	10.273	1.443	0.2166	0.15	9
0.225	10.232	1.402	0.225	0.1584	9.504
0.2333	10.194	1.364	0.2333	0.1667	10.002
0.2416	10.153	1.323	0.2416	0.175	10.5
0.25	10.115	1.285	0.25	0.1834	11.004
0.2583	10.08	1.25	0.2583	0.1917	11.502
0.2666	10.049	1.219	0.2666	0.2	12
0.275	10.017	1.187	0.275	0.2084	12.504
0.2833	9.986	1.156	0.2833	0.2167	13.002
0.2916	9.96	1.13	0.2916	0.225	13.5

0.3	9.932	1.102	0.3	0.2334	14.004
0.3083	9.907	1.077	0.3083	0.2417	14.502
0.3166	9.884	1.054	0.3166	0.25	15
0.325	9.862	1.032	0.325	0.2584	15.504
0.3333	9.84	1.01	0.3333	0.2667	16.002
0.35	9.802	0.972	0.35	0.2834	17.004
0.3666	9.764	0.934	0.3666	0.3	18
0.3833	9.736	0.906	0.3833	0.3167	19.002
0.4	9.708	0.878	0.4	0.3334	20.004
0.4166	9.679	0.849	0.4166	0.35	21
0.4333	9.648	0.818	0.4333	0.3667	22.002
0.45	9.616	0.786	0.45	0.3834	23.004
0.4666	9.584	0.754	0.4666	0.4	24
0.4833	9.55	0.72	0.4833	0.4167	25.002
0.5	9.521	0.691	0.5	0.4334	26.004
0.5166	9.49	0.66	0.5166	0.45	27
0.5333	9.461	0.631	0.5333	0.4667	28.002
0.55	9.436	0.606	0.55	0.4834	29.004
0.5666	9.408	0.578	0.5666	0.5	30
0.5833	9.385	0.555	0.5833	0.5167	31.002
0.6	9.36	0.53	0.6	0.5334	32.004
0.6166	9.338	0.508	0.6166	0.55	33
0.6333	9.316	0.486	0.6333	0.5667	34.002
0.65	9.297	0.467	0.65	0.5834	35.004
0.6666	9.275	0.445	0.6666	0.6	36
0.6833	9.253	0.423	0.6833	0.6167	37.002
0.7	9.237	0.407	0.7	0.6334	38.004
0.7166	9.218	0.388	0.7166	0.65	39
0.7333	9.202	0.372	0.7333	0.6667	40.002
0.75	9.186	0.356	0.75	0.6834	41.004
0.7666	9.174	0.344	0.7666	0.7	42
0.7833	9.158	0.328	0.7833	0.7167	43.002
0.8	9.145	0.315	0.8	0.7334	44.004
0.8166	9.13	0.3	0.8166	0.75	45
0.8333	9.117	0.287	0.8333	0.7667	46.002
0.85	9.101	0.271	0.85	0.7834	47.004
0.8666	9.092	0.262	0.8666	0.8	48
0.8833	9.082	0.252	0.8833	0.8167	49.002
0.9	9.07	0.24	0.9	0.8334	50.004
0.9166	9.06	0.23	0.9166	0.85	51
0.9333	9.051	0.221	0.9333	0.8667	52.002
0.95	9.044	0.214	0.95	0.8834	53.004
0.9666	9.035	0.205	0.9666	0.9	54
0.9833	9.028	0.198	0.9833	0.9167	55.002
1	9.019	0.189	1	0.9334	56.004
1.2	8.946	0.116	1.2	1.1334	68.004
1.4	8.902	0.072	1.4	1.3334	80.004
1.6	8.877	0.047	1.6	1.5334	92.004
1.8	8.861	0.031	1.8	1.7334	104.004
2	8.852	0.022	2	1.9334	116.004
2.2	8.845	0.015	2.2	2.1334	128.004
2.4	8.842	0.012	2.4	2.3334	140.004
2.6	8.839	0.009	2.6	2.5334	152.004
2.8	8.836	0.006	2.8	2.7334	164.004
3	8.836	0.006	3	2.9334	176.004
3.2	8.83	0	3.2	3.1334	188.004
3.4	8.83	0	3.4	3.3334	200.004
3.6	8.833	0.003	3.6		
3.8	8.83	0	3.8		
4	8.83	0	4		
4.2	8.833	0.003	4.2		
4.4	8.826	-0.004	4.4		

4.6	8.826	-0.004	4.6
4.8	8.826	-0.004	4.8
5	8.826	-0.004	5
5.2	8.826	-0.004	5.2
5.4	8.826	-0.004	5.4
5.6	8.826	-0.004	5.6
5.8	8.826	-0.004	5.8
6	8.823	-0.007	6
6.2	8.823	-0.007	6.2
6.4	8.826	-0.004	6.4
6.6	8.826	-0.004	6.6
6.8	8.826	-0.004	6.8
7	8.826	-0.004	7
7.2	8.826	-0.004	7.2
7.4	8.826	-0.004	7.4
7.6	8.826	-0.004	7.6
7.8	8.83	0	7.8
8	8.83	0	8
8.2	8.826	-0.004	8.2
8.4	8.83	0	8.4



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	1.24e-006
Transmissivity (sq ft/s):	1.16e-005

River Bends Bar MW-3 Slug Out

Test 1 MW-3 Slug Out

SE20	0
Environment	al Logger
01/01 1	9:29
Unit# 281	Test 1
Setups:	INPUT 1
---	---
Type	Level (F)
Mode	TOC
I.D.	
Reference	6.67
PSI at Ref.	3.995
SG	1
Linearity	0
Scale factor	10.011
Offset	-0.014
Delay mSEC	50
Step 0 01/01	0:52:10

Elapsed Time	INPUT 1	Drawdown	Time(min)	Adjusted Time(min)	Adjusted Time (sec)
0.0000	6.344	-0.326	0		
0.0083	6.341	-0.329	0.0083		
0.0166	6.344	-0.326	0.0166		
0.0250	6.341	-0.329	0.025		
0.0333	6.341	-0.329	0.0333		
0.0416	6.341	-0.329	0.0416		
0.0500	6.341	-0.329	0.05		
0.0583	6.834	0.164	0.0583		
0.0666	6.114	-0.556	0.0666		
0.0750	7.055	0.385	0.075		
0.0833	8.672	2.002	0.0833		
0.0916	8.34	1.670	0.0916		
0.1000	8.805	2.135	0.1		
0.1083	8.205	1.535	0.1083	0	0
0.1166	8.735	2.065	0.1166	0.0083	0.498
0.1250	8.284	1.614	0.125	0.0167	1.002
0.1333	8.52	1.850	0.1333	0.0250	1.5
0.1416	8.391	1.721	0.1416	0.0333	1.998
0.1500	8.407	1.737	0.15	0.0417	2.502
0.1583	8.416	1.746	0.1583	0.0500	3
0.1666	8.372	1.702	0.1666	0.0583	3.498
0.1750	8.394	1.724	0.175	0.0667	4.002
0.1833	8.366	1.696	0.1833	0.0750	4.5
0.1916	8.369	1.699	0.1916	0.0833	4.998
0.2000	8.356	1.686	0.2	0.0917	5.502
0.2083	8.35	1.680	0.2083	0.1000	6
0.2166	8.344	1.674	0.2166	0.1083	6.498
0.2250	8.334	1.664	0.225	0.1167	7.002
0.2333	8.328	1.658	0.2333	0.1250	7.5
0.2416	8.321	1.651	0.2416	0.1333	7.998
0.2500	8.315	1.645	0.25	0.1417	8.502
0.2583	8.309	1.639	0.2583	0.1500	9
0.2666	8.302	1.632	0.2666	0.1583	9.498
0.2750	8.296	1.626	0.275	0.1667	10.002
0.2833	8.29	1.620	0.2833	0.1750	10.5
0.2916	8.28	1.610	0.2916	0.1833	10.998

0.3000	8.274	1.604	0.3	0.1917	11.502
0.3083	8.268	1.598	0.3083	0.2000	12
0.3166	8.261	1.591	0.3166	0.2083	12.498
0.3250	8.255	1.585	0.325	0.2167	13.002
0.3333	8.252	1.582	0.3333	0.2250	13.5
0.3500	8.239	1.569	0.35	0.2417	14.502
0.3666	8.224	1.554	0.3666	0.2583	15.498
0.3833	8.211	1.541	0.3833	0.2750	16.5
0.4000	8.198	1.528	0.4	0.2917	17.502
0.4166	8.186	1.516	0.4166	0.3083	18.498
0.4333	8.176	1.506	0.4333	0.3250	19.5
0.4500	8.164	1.494	0.45	0.3417	20.502
0.4666	8.151	1.481	0.4666	0.3583	21.498
0.4833	8.138	1.468	0.4833	0.3750	22.5
0.5000	8.129	1.459	0.5	0.3917	23.502
0.5166	8.119	1.449	0.5166	0.4083	24.498
0.5333	8.107	1.437	0.5333	0.4250	25.5
0.5500	8.097	1.427	0.55	0.4417	26.502
0.5666	8.088	1.418	0.5666	0.4583	27.498
0.5833	8.075	1.405	0.5833	0.4750	28.5
0.6000	8.069	1.399	0.6	0.4917	29.502
0.6166	8.056	1.386	0.6166	0.5083	30.498
0.6333	8.05	1.380	0.6333	0.5250	31.5
0.6500	8.04	1.370	0.65	0.5417	32.502
0.6666	8.031	1.361	0.6666	0.5583	33.498
0.6833	8.021	1.351	0.6833	0.5750	34.5
0.7000	8.012	1.342	0.7	0.5917	35.502
0.7166	8.006	1.336	0.7166	0.6083	36.498
0.7333	7.996	1.326	0.7333	0.6250	37.5
0.7500	7.99	1.320	0.75	0.6417	38.502
0.7666	7.98	1.310	0.7666	0.6583	39.498
0.7833	7.974	1.304	0.7833	0.6750	40.5
0.8000	7.965	1.295	0.8	0.6917	41.502
0.8166	7.961	1.291	0.8166	0.7083	42.498
0.8333	7.952	1.282	0.8333	0.7250	43.5
0.8500	7.946	1.276	0.85	0.7417	44.502
0.8666	7.939	1.269	0.8666	0.7583	45.498
0.8833	7.933	1.263	0.8833	0.7750	46.5
0.9000	7.927	1.257	0.9	0.7917	47.502
0.9166	7.917	1.247	0.9166	0.8083	48.498
0.9333	7.914	1.244	0.9333	0.8250	49.5
0.9500	7.905	1.235	0.95	0.8417	50.502
0.9666	7.898	1.228	0.9666	0.8583	51.498
0.9833	7.892	1.222	0.9833	0.8750	52.5
1.0000	7.886	1.216	1	0.8917	53.502
1.2000	7.807	1.137	1.2	1.0917	65.502
1.4000	7.75	1.080	1.4	1.2917	77.502
1.6000	7.687	1.017	1.6	1.4917	89.502
1.8000	7.639	0.969	1.8	1.6917	101.502
2.0000	7.598	0.928	2	1.8917	113.502
2.2000	7.554	0.884	2.2	2.0917	125.502
2.4000	7.525	0.855	2.4	2.2917	137.502
2.6000	7.497	0.827	2.6	2.4917	149.502
2.8000	7.469	0.799	2.8	2.6917	161.502
3.0000	7.453	0.783	3	2.8917	173.502
3.2000	7.431	0.761	3.2	3.0917	185.502
3.4000	7.418	0.748	3.4	3.2917	197.502
3.6000	7.402	0.732	3.6	3.4917	209.502
3.8000	7.386	0.716	3.8	3.6917	221.502
4.0000	7.377	0.707	4	3.8917	233.502
4.2000	7.364	0.694	4.2	4.0917	245.502
4.4000	7.358	0.688	4.4	4.2917	257.502

4.6000	7.345	0.675	4.6	4.4917	269.502
4.8000	7.339	0.669	4.8	4.6917	281.502
5.0000	7.333	0.663	5	4.8917	293.502
5.2000	7.32	0.650	5.2	5.0917	305.502
5.4000	7.317	0.647	5.4	5.2917	317.502
5.6000	7.308	0.638	5.6	5.4917	329.502
5.8000	7.301	0.631	5.8	5.6917	341.502
6.0000	7.292	0.622	6	5.8917	353.502
6.2000	7.285	0.615	6.2	6.0917	365.502
6.4000	7.282	0.612	6.4	6.2917	377.502
6.6000	7.273	0.603	6.6	6.4917	389.502
6.8000	7.273	0.603	6.8	6.6917	401.502
7.0000	7.266	0.596	7	6.8917	413.502
7.2000	7.26	0.590	7.2	7.0917	425.502
7.4000	7.257	0.587	7.4	7.2917	437.502
7.6000	7.248	0.578	7.6	7.4917	449.502
7.8000	7.248	0.578	7.8	7.6917	461.502
8.0000	7.235	0.565	8	7.8917	473.502
8.2000	7.238	0.568	8.2	8.0917	485.502
8.4000	7.229	0.559	8.4	8.2917	497.502
8.6000	7.225	0.555	8.6	8.4917	509.502
8.8000	7.222	0.552	8.8	8.6917	521.502
9.0000	7.216	0.546	9	8.8917	533.502
9.2000	7.213	0.543	9.2	9.0917	545.502
9.4000	7.206	0.536	9.4	9.2917	557.502
9.6000	7.206	0.536	9.6	9.4917	569.502
9.8000	7.2	0.530	9.8	9.6917	581.502
10.0000	7.2	0.530	10	9.8917	593.502
11.0000	7.181	0.511	11	10.8917	653.502
12.0000	7.165	0.495	12	11.8917	713.502
13.0000	7.15	0.480	13	12.8917	773.502
14.0000	7.131	0.461	14	13.8917	833.502
15.0000	7.121	0.451	15	14.8917	893.502
16.0000	7.112	0.442	16	15.8917	953.502
17.0000	7.093	0.423	17	16.8917	1013.502
18.0000	7.086	0.416	18	17.8917	1073.502

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.

Site Investigation Report - METCO
River Bends Bar

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.

Site Investigation Report - METCO
River Bends Bar

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, and 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 Photography 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 with 8-hour refresher 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 L. Kujawa

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#17138).
- Member of the Geological Society of America

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Hydrogeology, Contaminant Hydrogeology, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth History, Physical Geology, Structural Geology, Computers in Geology, Geographic Informational Systems, Global Environmental Change, and General Chemistry.

Work Experience

With METCO since June, 2016 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

APPENDIX G/ STANDARD OF CARE

STANDARD OF CARE

The analysis and conclusions expressed in this report are based upon data obtained from the indicated subsurface locations and from other sources discussed in this report. Actual subsurface conditions may vary and may not become evident without further assessment.

All work conducted by METCO is in accordance with currently accepted hydrogeologic and engineering practices and they neither imply nor intend warranty.

We appreciate the opportunity to be of service to you. If you have any questions or require additional information, please do not hesitate to contact us.

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

J. T. Powell — 10/31/17

Jason T. Powell
Staff Scientist

Date

"I Ronald J. Anderson, hereby certify that I am a hydrogeologist as that term is defined in s.NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Ronald J. Anderson — 10/31/17

Ronald J. Anderson PG
Senior Hydrogeologist/Project Manager

Date