

NR 716 Investigation Report

**1910 20th Street and 2022 School Street
Two Rivers, Wisconsin**

Prepared for:

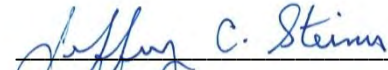
**Manitowoc County
1110 South 9th Street
Manitowoc, WI 54220**

July 2015

NR 716 Investigation Report

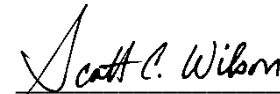
1910 20th Street and 2022 School Street Two Rivers, WI

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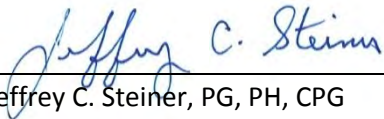
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NR 712.09 Submittal Certification

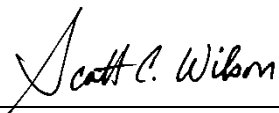
"I, Jeffrey Steiner, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to NR 726, Wis. Adm. Code."



Jeffrey C. Steiner, PG, PH, CPG

July 10, 2015
Date

"I, Scott C. Wilson, 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 NR 726, Wis. Adm. Code."



Scott C. Wilson, PSS, Vice President – Environmental Services

July 10, 2015
Date

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Executive Summary

A Wisconsin Economic Development Corporation Site Assessment Grant was awarded to Manitowoc County in November 2014. Manitowoc County retained Ayres Associates to perform environmental assessment activities and assist the County in implementing the requirements of the grant awarded for the former Lesperance property, 2022 School Street, and the former White property, 1910 20th Street, Two Rivers. An NR 716 Site Investigation was conducted at the site in April 2015. The primary objectives of the assessment were to characterize the hydrogeologic and environmental conditions at the site, characterize the nature of potential environmental impacts, and evaluate the need to implement remedial action at the site.

Unconsolidated sediments at the site consist of general fill material overlying alluvial deposits to the depth of exploration at 33 feet. The alluvial deposits consist of discontinuous layers of highly decomposed peat, poorly graded sand, silty sand, silt, and low plasticity clay of variable thickness. These deposits are covered by up to 6 feet of fill material which is generally differentiated from the underlying till by the presence of bricks, cinders, concrete, metal, and wood debris. Bedrock was not encountered in any of the soil borings advanced at the site during this assessment.

Water level data collected in April and May 2015 indicate that depth to water ranged from 2.11 feet to 5.77 feet below ground surface. Groundwater flow is generally westerly toward the West Twin River at an average horizontal hydraulic gradient of 0.007 ft/ft. The average horizontal groundwater flow velocity in the water table aquifer is estimated to be 0.04 feet/day or 16 feet/year.

Laboratory results for soil samples collected at the site indicate that VOCs, PAHs, and metals were detected at concentrations exceeding either the direct contact residual contaminant level (RCL) or the RCL established for the protection of groundwater. One soil sample collected in an area of historic PCB contamination contained Aroclor 1260 above the direct contact RCL.

Laboratory results show trace concentrations of VOC, PAH, and metals in groundwater samples collected from monitoring wells at the site. Benzene was the only parameter detected above NR 140 enforcement standards in one water table well.

Results of sub slab vapor analysis indicates low levels of VOC beneath the buildings on the former Lesperance property. None of the VOC vapor concentrations were detected above shallow soil gas screening levels.

Based on the nature of the fill material at the site, and limited degree of impacts to soil and groundwater, Ayres Associates believes that no additional investigation is warranted at this site with the possible exception of PCB sampling in soils near soil probe AGP-7.

Acknowledgement

On behalf of Manitowoc County, Ayres Associates would like to extend its sincere appreciation to the Wisconsin Economic Development Corporation (WEDC) for their funding support and technical assistance. The WEDC not only graciously awarded Manitowoc County grant funds to assist with the environmental activities outlined in this report, but have continued to support the County's efforts as they move toward redevelopment. Without this funding support, this Brownfield site may have laid idle indefinitely. We are indebted to the WEDC for making financial assistance available for this important redevelopment project.

Introduction

The site, comprised of the former Lesperance and White properties, was acquired by Manitowoc County through administrative tax foreclosure during two separate actions in 2008 and 2012. Prior to County ownership, the site had been used for several decades for bulk petroleum storage. Following County acquisition, the Lesperance property has been utilized for materials storage and currently Chard Development, LLC is leasing the property for warehouse and office space. Chard Development, LLC is a Two Rivers based company that develops, manufactures, and distributes products through regional and national retailers. The White property has remained vacant.

Chard Development, LLC has seen substantial growth within recent years that has created the need for additional warehousing and distribution space. Development of the adjacent former White parcel will provide the future space required for Chard Development's expansion. Manitowoc County in partnership with Chard Development, LLC will conduct environmental activities necessary to assess and remediate the former Lesperance and White properties prior to redevelopment.

Manitowoc County applied for and received a Wisconsin Economic Development Corporation Site Assessment Grant (SAG) in November 2014. The purpose of the grant is to perform assessment activities to determine appropriate action for remediation of the site.

Manitowoc County retained Ayres Associates to perform environmental assessment activities and assist the City in implementing the requirements of the grants. An NR 716 Site Investigation was conducted at the site in April 2015. The primary objectives of the site investigation were to:

- Characterize the hydrogeologic and environmental conditions at the site
- Characterize the nature of potential impacts to soil and groundwater
- Evaluate potential vapor migration and intrusion
- Evaluate the threat, if any, to human health and the environment
- Evaluate the need to implement remedial action at the site in regards to site development

Environmental assessment and remediation planning activities related to site development are the subjects of this report.

Background

Site Location and Description

The project site is located in the east ½ the northwest ¼ of Section 1, Township 19 North, Range 24 East (E ½, NW ¼, Section 1, T19N, R24E), Manitowoc County, Wisconsin, (Figure 1). The site includes two parcels owned by Manitowoc County identified as the former Lesperance property located at 2022 School Street and the former White property located at 1910 20th Street, Two Rivers (Figure 1). A parcel map obtained from the Manitowoc County Geographic Information Service (GIS Viewer) is presented as Figure 2.

The combined properties consist of approximately 5.9 acres zoned for industrial use. The 2022 School Street property is occupied by an approximate 21,000-square-foot steel warehouse and office building, an approximate 4,000-square-foot steel warehouse and an approximate 1,000-square-foot brick warehouse leased by Manitowoc County to Chard Development for shipping and receiving warehouses. The 1910 20th Street parcel contains two small out buildings and is currently vacant.

The project site is located adjacent to the east shore of the West Twin River. Ground cover near the warehouse on the Lesperance property consists of gravel driveway and parking. The western portion of the Lesperance property had recently been cleared of brush and trees leaving the bare ground exposed. Debris consisting of bricks, concrete, and metal was scattered across the ground surface. Ground cover on the White property consisted of grass and weedy vegetation. At the time of assessment activities, ponded water was prevalent across this property.

The site is zoned industrial (I-2). The area east of the site is primarily residential. Industrial/commercial properties are located north and south of the site along the West Twin River.

Site History and Background

The history of the site was obtained from a *Phase I Environmental Assessment Report* (September 2013), prepared by Sigma under contract to the Wisconsin Department of Natural Resources.

Historically, the site has been used as a coal storage yard, bulk petroleum storage facility, a petroleum recycling and storage facility, and a wood play system manufacturer. Eighteen above ground storage tanks (AST) ranging in size from 250 to 250,000 gallons formerly occupied the former White property. These tanks were removed during EPA actions conducted on the property in 1995. Seven 10,000-gallon oil or gasoline AST also occupied the former Lesperance property until the 1980s. A fuel oil underground storage tank (UST) is currently present outside the southwest corner of the main warehouse on the Lesperance property.

Several spills have been reported on the White property. Between 1994 and 1995, the EPA and WDNR conducted environmental activities on the White property that included spill containment, removal of 18 AST, removal and disposal of 113 tons of PCB sludge, 11,100 gallons of waste oil, 45 tons of asbestos contaminated debris, 66 tons of petroleum contaminated soil, and 100 tons of solid waste.

Site investigation activities conducted on the White property by the WDNR in 1999 indicate the presence of fill material containing coal, gravel, and wood within 3 feet of ground surface. Contamination in soil including polycyclic aromatic hydrocarbons (PAH), lead, and arsenic were detected above regulatory standards. Concentrations of benzene and chlorinated volatile organic compounds

(CVOC) were also detected in soil. Groundwater sampled from the White property contained benzene, CVOC, and PAH concentrations above enforcement standards or preventative action limits. The White parcel is currently an open ERP case (BRRTS # 02-36-096500).

Adjacent property north of the Lesperance property is a former manufactured gas plant (MGP) with documented soil and groundwater contamination. A limited site investigation was conducted on the Lesperance property as part of the investigation for the former MGP site. Low level concentrations of petroleum-related compounds were detected in soil and groundwater.

Two petroleum pipelines are present on the western portion of the site. The pipelines, which are no longer in use, extend from the convergence of the East and West Twin Rivers north to the US Oil property located approximately one block north of the site. A spill associated with the pipelines on the western portion of the Lesperance property has recently been investigated. Results of this investigation indicate petroleum and heavy metals contamination in soil and groundwater.

Recognized Environmental Concerns

Environmental concerns regarding the site are primarily related to the historical storage of bulk petroleum at the site and the existence of near surface debris fill. Results of previous investigations conducted on the site indicate the presence of (PAH), volatile organic compounds (VOCs) including chlorinated and petroleum-related compounds, and heavy metals in soil and groundwater. PCB contamination was also documented on the White property.

Regional Geology and Hydrogeology

Geology

This preliminary evaluation of the site geology is based on existing published regional information¹, and site-specific data collected from borings advanced in the project area by others. Subsurface information collected by others indicates that sand fill containing varying amounts of gravel, wood, glass, slag, and cinders extends from the ground surface to depths between 2 and 6 feet from ground surface. Beneath the fill is a 1- to 2-foot peat layer underlain by silt.

Regional information indicates that surficial unconsolidated deposits in the area of the site consist of post glacial organic sediment such as peat and muck underlain by stream, glacial, or lake deposits. Underlying the glacial deposits are dolomites of Silurian age. The Silurian age dolomites are underlain by shale, dolomite, and sandstone of Ordovician age. Depth to bedrock is estimated to be approximately 100 feet.

¹ Mickelson, D. M. and B.J. Socha. 2004. "Preliminary Quaternary Geologic Map of Manitowoc and Calumet Counties, Wisconsin, University Extension – The University of Wisconsin Geological and Natural History Survey.

Hydrogeology

Groundwater is the source for domestic and industrial water supplies in the Two Rivers area. The City of Two Rivers relies on surface water pumped from Lake Michigan.

Depth to groundwater below the site reportedly ranges from approximately 3 to 6 feet below ground surface. Shallow groundwater flow is likely to be west toward the West Twin River, based on the proximity of the river to the project site.

Site Geology and Hydrogeology

Site Stratigraphy

Subsurface conditions were evaluated based on information collected from 20 soil probes and borings advanced at the site during this assessment. Soil borings were advanced to a maximum depth of 33 feet below ground surface (bgs).

Nine of the soil borings advanced during this assessment were used for installation of water table observation wells (AMW-1 through AMW-6) and piezometers (APZ-1, APZ-2, and APZ-4). Locations of the probes and wells are shown on Figure 2. Geologic cross sections A-A' and B-B' are shown on Figure 3. Geologic boring and well construction logs are presented in Appendix A.

Subsurface information collected during this assessment indicates that the unconsolidated sediments at the site consist of fill material overlying alluvial or flood plain deposits, to the depth of exploration at 33 feet. The alluvial deposits consist of a continuous, 3- to 5-foot thick layer of highly decomposed peat overlying layers of poorly graded sand, silty sand, silt, and low plasticity clay of variable thickness. These deposits are covered by up to 6 feet of fill material which is generally differentiated from the underlying till by the presence of bricks, cinders, concrete, metal, and wood debris. Bedrock was not encountered in any of the soil borings advanced at the site during this assessment.

Groundwater Flow Conditions

Groundwater Levels

Groundwater level and elevation data were obtained from the monitoring wells on April 8 and April 14, 2015 (Table 1); however, the data collected on April 8 clearly indicate that water levels had not yet stabilized. Water level data collected on April 14, 2015, indicate that depth to water ranged from 2.11 feet to 5.71 feet below the top of well casing. An additional round of water level readings were obtained on May 20, 2015. Depth to water readings obtained in May ranged from 2.49 feet to 5.77 feet below the top of well casing.

Groundwater Flow

Groundwater level and elevation data obtained from the monitoring wells on April 14, 2015, were used to estimate groundwater flow direction and gradient. Groundwater flow is generally west toward the West Twin River at an average horizontal hydraulic gradient of 0.007, as illustrated in Figure 4.

Water level data collected from the piezometers during the May 20, 2015, sampling event indicate that water levels in the piezometers screened primarily in low permeability silt and clay deposits had likely stabilized by May 2015. Water level data obtained in May 2015 indicate groundwater flow at depth within the upper aquifer is west toward the West Twin River at an average horizontal hydraulic gradient of 0.003, as illustrated in Figure 5.

Vertical Gradients

Differences in hydraulic head can occur between different geologic units. The difference in hydraulic head is caused by steep hydraulic gradients induced by heavy groundwater pumping, large topographic relief, or by differences in hydraulic conductivity. Vertical gradients can induce or prevent contaminant migration in and between aquifers depending on the magnitude and direction of the gradient.

Vertical groundwater gradients, presented in Table 3, were calculated based on water levels obtained from the three well nests. Slight upward vertical gradients, ranging from 0.0015 to 0.017, were measured between wells in each of the three well nests. Upward vertical gradients indicate groundwater discharge conditions across the site.

Hydraulic Conductivity Testing

Hydraulic conductivity (slug) tests were performed on seven of the nine monitoring wells installed at the site, including water table wells AMW-1, AMW-3, AMW-4, AMW-5, AWMW-6, and piezometers APZ-2, and APZ-4. The slug tests were performed by rapidly lowering a solid cylinder (slug) into the well to cause an instantaneous rise in water level (falling head test), then measuring the return of the water level to its static condition. A second test was performed by removing the slug (rising head test), and again measuring the response of the water level in the well. Water level data were recorded with an automated pressure transducer and data logger system. Slug test data were evaluated using Waterloo Hydrologic Aquifer Test v. 3 graphical analysis and reporting software. The slug tests were analyzed using the methods of Bouwer and Rice (1976)² for unconfined aquifers. Results of the slug tests are summarized in Table 2. Slug test data and test parameters are presented in Appendix B.

Hydraulic conductivity values (recovery test only) calculated for water table observation wells ranged from 1.5×10^{-3} cm/sec in well AMW-5, screened primarily in sand, peat, and low plasticity clay deposits to 3.3×10^{-4} cm/sec in well AMW-3, screened in silty sand, peat, and low plasticity clay deposits.

Hydraulic conductivity values calculated for the piezometers ranged from 5.5×10^{-6} cm/sec in piezometer APZ-2, screened primarily in silty sand and silt deposits to 1.1×10^{-6} cm/sec in piezometer APZ-4, screened in low plasticity clay deposits.

Groundwater Flow Velocity

Groundwater flow velocity was calculated for the water table aquifer at this site using the formula:

$$V = ki/n_e$$

Where:

V = horizontal groundwater flow velocity

k = hydraulic conductivity

i = hydraulic gradient

n_e = effective porosity

² Bouwer, H. and R.C. Rice, A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, *Water Resources Research*, Vol.12, No.3, 1976, pp.423-428

An average (geometric mean) hydraulic conductivity value of 6.7×10^{-4} cm/sec was used in calculating groundwater flow velocity in the water table aquifer. This value was obtained by calculating the geometric mean of hydraulic conductivity results for tests performed on water table wells at the site.

The hydraulic gradient (i) used to calculate horizontal groundwater flow velocity is based on water levels measured on August 6, 2013. An average horizontal gradient of 0.007 ft/ft was used to calculate groundwater flow in the upper unconsolidated aquifer.

The velocity of groundwater is also influenced by the porosity of the aquifer material. The effective porosity (n_e) is a measure of the amount of interconnecting pore space that is available in a given volume of material through which water can move. The average effective porosity of the unconsolidated material is assumed to be 30 percent.

Based on the values stated above, the average horizontal groundwater flow velocity in the unconsolidated water table aquifer across the subject site is approximately 0.04 feet/day or 16 feet/year. Groundwater flow velocity would be lower in the lower permeability soils at depth within the aquifer.

Soil Quality Assessment

Soil samples collected from the probes and borings advanced during the NR 716 Site Investigation were submitted to Pace Laboratories in Green Bay, Wisconsin, for analysis. One soil sample from each probe and boring location was analyzed for volatile organic compounds (VOC), polycyclic aromatic hydrocarbons (PAH), and RCRA metals. One additional soil sample collected from GP-3 was submitted for laboratory analysis. Six soil samples were also analyzed for PCB. The samples selected for analysis, and type of analysis performed, was based on field screening results, visual and olfactory observations during drilling, and the type of activity formerly performed in the area where the probe or boring was advanced.

Field Observations and Screening Results

Headspace analysis was performed on each of the soil samples obtained from the probes and borings. Headspace analysis is a screening tool used to qualitatively assess the degree of potential impacts to soil from volatile organic compounds. The headspace analysis was performed using an organic vapor meter (OVM) equipped with an 11.7 eV lamp in accordance with Ayres Associates standard operating procedure #210. Headspace analysis results are shown on the boring logs in Appendix A.

Results of the headspace analysis indicated the potential presence of elevated levels of volatile organic constituents in probes advanced on the western portion of the Lesperance property including GP-1, GP-3 and GP-4. Because of the shallow depth of the water table at the site, the headspace analysis on samples collected below a depth of 3 feet indicates that detectable levels of VOC constituents may be dissolved in the groundwater.

Results of Soil Sample Laboratory Analysis

Eighteen (18) soil samples collected from the soil borings and probes advanced during the NR 716 Investigation were submitted for analysis. Each of the soil samples collected were analyzed for VOCs, PAHs, and RCRA metals. VOCs and PAHs were analyzed using EPA SW-846 Method 8260B and Method 8270C, respectively. Metals were analyzed using Methods 6010B, 7060A, and 7470A. Six soil samples were also analyzed for PCB using EPA Method 8082. A summary of analyte detections in soil is presented in Table 4. Laboratory data reports for soil samples are presented in Appendix C.

Volatil Organic Compound Analysis (VOCs)

Laboratory results for soil samples collected at the site indicate that trace concentrations of VOCs were detected in 10 of the 18 samples that were analyzed for these compounds. None of the detections exceeded NR 720 Wisconsin Administrative Code direct contact residual contaminant levels (RCLs). The RCLs established for the protection of groundwater were exceeded in soil sampled from probes GP-3, GP-7, GP-11, PZ-4, and MW-6.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

Concentrations of polycyclic aromatic hydrocarbon compounds (PAH) were detected in each of the 18 soil samples submitted for PAH analysis. The NR 720 Wisconsin Administrative Code RCL for non-industrial direct contact or protection of groundwater was exceeded in 15 of the 18 soil samples. PAH concentrations exceeded NR 720 Wisconsin Administrative Code industrial direct contact RCLs in soil sampled from probes GP-1, GP-3, GP-5, GP-6, GP-8, GP-10, PZ-4, MW-5, and MW-6. The industrial direct

contact RCL exceedances were detected in areas of former bulk petroleum storage tanks and are likely related to the activities associated with these tanks.

Inorganic Analysis

Metals

Low levels of metals were detected in each soil sample submitted for analysis. Arsenic was detected in 17 of the 18 samples submitted for analysis at concentrations exceeding NR 720 Wisconsin Administrative Code direct contact or protection of groundwater RCL. Arsenic concentrations in 12 of these samples ranged from 1.4 mg/Kg to 4.7 mg/Kg, well below the background threshold value of 8 mg/Kg for Wisconsin soils. Soil sampled from probes GP-3, GP-4, GP-11, and MW-5 contained arsenic exceeding the Wisconsin background threshold value for soil at concentrations ranging from 14.4 mg/Kg to 42.3 mg/Kg.

Lead was detected above the RCL established for the protection of groundwater in 12 of the 18 soil samples submitted for analysis. The sample collected from probe GP-11 contained lead at a concentration of 566 mg/Kg which exceeds the non-industrial direct contact RCL. The industrial direct contact RCL for lead was exceeded in soil sampled from probe GP-3 (1,370 mg/Kg) and in soil sampled from probe GP-4 (1,030 mg/Kg).

The RCL established for the protection of groundwater was exceeded for barium, cadmium, mercury and selenium in at least one soil sample submitted for analysis. Chromium and silver were the only metals which were not detected at a concentration exceeding either the direct contact or protection of groundwater RCL established in Wisconsin Administrative Code NR 720.

Polychlorinated Biphenyls (PCB)

During the course of EPA and WDNR environmental activities conducted on the White parcel in 1994 and 1995, 113 tons of PCB sludge was removed. Laboratory analysis of soil samples collected during this time also detected elevated concentrations of PCB in soil. For this investigation, six soil samples were collected for analysis to assess residual PCB contamination remaining at the site. One soil sample contained detectable concentrations of PCB. Aroclor 1260 was detected at a concentration of 0.324 mg/Kg which is above the non-industrial direct contact RCL of 0.221 mg/Kg in soil sampled from GP-7.

Groundwater Quality Assessment

Groundwater samples were collected from NR 141 Wisconsin Administrative Code monitoring wells installed at the project site during this investigation. The purpose of this sampling is to characterize the nature and extent of potential contamination at the site by determining the type, distribution, and concentration of chemical constituents present in the groundwater. The analytical data were used in conjunction with site-specific geologic and hydrogeologic data and information on other environmental conditions to determine the potential for contaminant migration.

One round of groundwater samples was collected from six water table observation wells (AMW-1, AMW-2, AMW-3, AMW-4, AMW-5, and AMW-6) and three piezometers (APZ-1, APZ-2, and APZ-4) installed by Ayres Associates, and one previously existing monitoring well installed by others (OMW-1). Well OMW-1 was installed on the former Lesperance parcel as part of environmental investigation of subsurface contamination associated with the two petroleum pipelines that cross the site. Ayres Associates obtained permission to sample OMW-1 as part of this site investigation.

Samples were collected from the wells on April 14, 2015, and submitted to Pace Laboratories in Green Bay, Wisconsin, for analysis. Groundwater samples were analyzed for VOCs, PAHs, dissolved RCRA metals. VOCs and PAHs were analyzed using EPA SW-846 Method 8260B and Method 8310, respectively. Dissolved metals were analyzed using Methods 6010B, 7060A, and 7470A. A summary of analyte detections in groundwater samples is presented in Table 5. Field parameter data are presented in Table 6. Low-flow sampling stabilization data is presented in Appendix D, and laboratory data sheets for the April 14, 2015, sampling event are presented in Appendix E.

Volatile Organic Compound Analysis (VOCs)

Laboratory results indicate trace concentrations of VOC constituents in 6 of the 10 wells sampled. Only one of the parameters detected (benzene at 6.1 µg/L) in the sample collected from well OMW-1 exceeded NR 140 Wisconsin Administrative Code groundwater enforcement standards (ES). Benzene exceeded the preventive action limit (PAL) in groundwater sampled from wells AMW-2 and AMW-4. Tetrachloroethene exceeded the PAL in groundwater sampled from well AMW-2. None of the other VOCs detected during the April 14, 2015, sampling event exceeded the PAL.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

Trace concentrations of PAH constituents were found in each of the 10 wells sampled. None of the concentrations detected exceeded the PAL.

Inorganic Analysis

Low levels of dissolved barium were detected in groundwater samples collected from each of the 10 wells. None of the concentrations of barium exceeded the PAL. Dissolved selenium was detected in groundwater sampled from one well, AMW-1, at a concentration above the PAL. None of the other 6 RCRA metals were detected during laboratory analysis.

Field Parameter Data

Real time data on temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential (ORP) were collected to compliment the analytical data. These data were used to

construct a “geochemical model” of conditions at the site to assist in the interpretation and understanding of attenuation and or transformation processes that may be occurring, and the potential fate of the constituents of interest. Temperature, pH, specific conductance, turbidity, dissolved oxygen, and redox potential were obtained using an In-Situ[®], Inc. Troll 9000 multi parameter water quality monitoring system. Field parameter data are presented in Table 6.

The field parameter data corresponded relatively well to results obtained from the laboratory. Dissolved oxygen and ORP readings were generally depressed (anoxic conditions) in groundwater in areas historically impacted with hydrocarbons. Oxidizing conditions exist in samples collected from water table wells and piezometers screened in areas of the aquifer which historically had little or no impacts.

Vapor Assessment

Because of the long history of bulk petroleum storage and the documented environmental contamination and clean-up conducted at the site, an assessment of sub-slab volatile organic vapors was conducted beneath the two currently occupied Chard Development, LLC buildings. The objective of the sub-slab vapor assessment was to evaluate whether volatile organic vapors beneath the buildings, if any, were at concentrations considered a risk to human health.

Ayres Associates installed a total of three sub-slab Vapor Pins™. Two of the Vapor Pins™, VP-1 and VP-2, were installed beneath the concrete floor of the main warehouse/office building. The third Vapor Pin™, VP-3, was installed beneath the floor of the storage building located on the west side of the property. Vapor Pins™ were installed and sub-slab vapors subsequently sampled on April 8, 2015. Each vapor sample was collected by attaching a sampling train consisting of fittings and Teflon tubing from the Vapor Pin™ to a 6L Summa canister. The Summa canister was fitted with a controller to limit vapor flow to no more than 200mL/min which resulted in a sampling period of 30 minutes to fill the canister. Each of the sub-slab vapor samples was submitted for VOC analysis in accordance with EPA method TO-15. Sub-slab vapor sampling analytical data is summarized in Table 7. Laboratory data sheets are included in Appendix F.

Laboratory analysis of the three sub-slab vapor samples detected 28 compounds with one or more of these compounds detected in each of the samples. None of the compounds were detected above the commercial sub-slab (shallow soil) vapor screening levels. The sub-slab soil vapor screening levels were calculated by multiplying the Commercial Air Screening levels obtained from the US EPA Regional Screening Level Table (November 2014) by an indoor air attenuation factor of 0.1.

The three vapor probes were subsequently screened for methane on May 20, 2015, using a Landtek GEM 2000 four gas meter. Results of this screening did not indicate the presence of methane beneath the building slabs.

Summary of Findings

Geology and Hydrogeology

- Unconsolidated sediments at the site consist of general fill material overlying alluvial or flood plain deposits to the depth of exploration at 33 feet. The alluvial deposits consist of discontinuous layers of highly decomposed peat, poorly graded sand, silty sand, silt, and low plasticity clay of variable thickness. These deposits are covered by up to 6 feet of fill material which is generally differentiated from the underlying till by the presence of bricks, cinders, concrete, metal, and wood debris.
- Bedrock was not encountered in any of the soil borings advanced at the site during the NR 716 investigation. Published regional information indicates that bedrock is at a depth of approximately 100 feet.
- Water level data collected in April and May 2015 indicate that depth to water ranged from 2.1 feet to 5.77 feet below ground surface. Groundwater flow is generally westerly toward the West Twin River at an average horizontal hydraulic gradient of 0.007. The average horizontal groundwater flow velocity in the water table aquifer is estimated to be 0.04 feet/day, or 16 feet/year.

Soil Assessment

Volatile Organic Compound Analysis (VOCs)

- Each of the 18 soil samples collected during the NR 716 Investigation were analyzed for VOCs. Trace VOC concentrations were detected in 10 of the 18 soil samples. None of the compounds detected exceeded direct contact RCL. However, the RCL for the protection of groundwater was exceeded in soil sampled from GP-3, GP-7, GP-11, PZ-4, and MW-6.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

- Concentrations of PAH were detected in each of the 18 soil samples submitted for PAH analysis. PAH concentrations exceeded non-industrial direct contact RCL in 15 of the 18 soil samples. The industrial direct contact RCL was exceeded in 9 of the 15 soil samples which contained PAH constituents. The industrial direct contact RCL exceedances were detected in areas of former bulk petroleum storage tanks.

Inorganic Analysis

Metals

- Low levels of metals were detected in each of the 18 samples submitted for analysis. Arsenic was detected in 17 of these samples at concentrations exceeding the direct contact or protection of groundwater RCL. Only 4 of these samples contained arsenic exceeding the Wisconsin background threshold value of 8 mg/Kg.
- Lead concentrations were detected above the RCL established for protection of groundwater in 12 soil samples. The sample collected from GP-11 contained lead at a concentration exceeding the non-industrial direct contact RCL. Soil sampled from GP-3 and GP-4 contained lead concentrations exceeding the industrial direct contact RCL.

- Barium, cadmium, mercury and selenium concentrations exceeded the RCL established for the protection of groundwater in at least one soil sample submitted for analysis.

Polychlorinated Biphenyls (PCB)

- Six soil samples were submitted for PCB analysis. One soil sample collected from GP-7 contained Aroclor 1260 at a concentration of 0.324 mg/Kg which is above the non-industrial direct contact RCL of 0.221 mg/Kg. None of the other 5 soil samples submitted for analysis contained detectable concentrations of PCB.

Groundwater Assessment

Volatile Organic Compound Analysis (VOCs)

- Laboratory results indicate that detectable concentrations of VOC constituents above NR 140 Wisconsin Administrative Code groundwater standards were found in only 1 of the 12 groundwater samples collected during the April 14, 2015, sampling event. Only one of the parameters detected (benzene, 6.1 ug/L) in the sample collected from well OMW-1 slightly exceeded NR 140 Wisconsin Administrative Code ES for benzene of 5 ug/L. Benzene exceeded the PAL in samples collected from AMW-2 and AMW-4. Tetrachloroethene exceeded the PAL in groundwater sampled from AMW-2.
- The benzene concentration detected in OMW-1 has been previously documented by others to have resulted from a release from the underground petroleum pipelines that cross the site. A site investigation related to the release has been conducted by others and the contamination detected in proximity of the pipelines is part of an open WDNR ERP site.

Polycyclic Aromatic Hydrocarbon Analysis (PAH)

- Trace concentrations, below the PAL, were detected in each of the 10 wells sampled.

Inorganic Analysis

- Dissolved barium was detected below the PAL in each of the 10 groundwater samples collected. Selenium was detected in one well, AMW-1, at a concentration above the PAL. No other metals were detected in any of the 10 groundwater sampled submitted for analysis.

Vapor Assessment

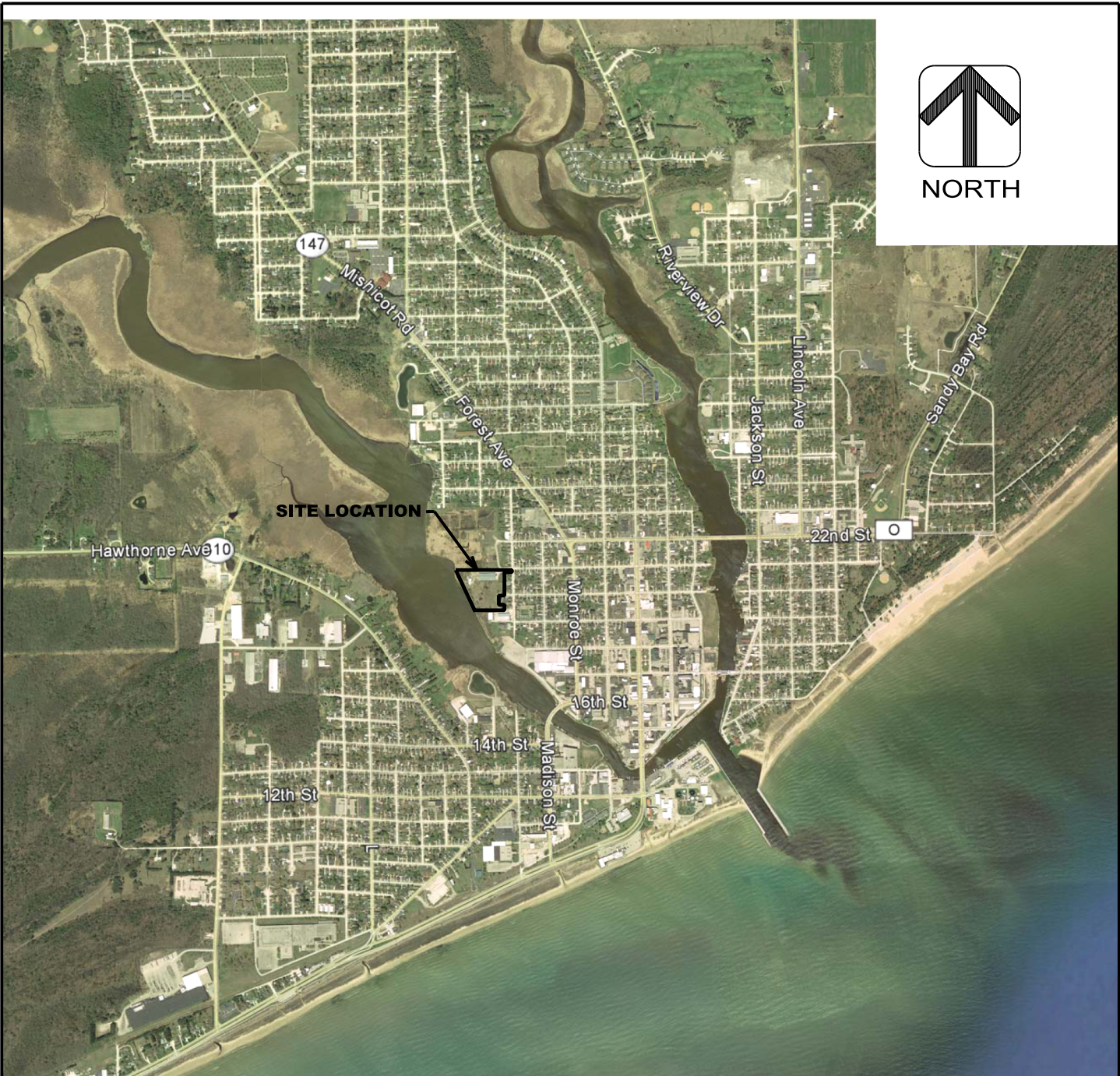
- Laboratory analysis of three sub-slab vapor samples collected beneath the two Chard Development LLC buildings indicate low concentrations of VOC. None of the 28 compounds detected were at concentrations exceeding the sub-slab (shallow soil) vapor screening levels.
- Screening of the vapor probes using a Landtek four gas meter did not detect the presence of methane.

Conclusions and Recommendations

The following conclusions and recommendations are provided based on information collected during the site assessment:

- Submit this NR 716 Investigation Report to the Wisconsin Department of Natural Resources.
- Because PCB was detected at a concentration exceeding direct contact RCL, additional soil sampling is warranted in proximity of GP-7 to evaluate the lateral extent of PCB impacts.
- Upon completion of the additional PCB soil sampling, prepare a Remedial Action Options Report (RAOR) and Materials Management Plan (MMP) to address soil and groundwater impacts in the subsurface that are consistent with site redevelopment plans. The remediation options selected will be contingent on the plans for redevelopment.

Figures



SITE LOCATION MAP

1910 20TH STREET & 2022 SCHOOL STREET
TWO RIVERS, WISCONSIN
NOT TO SCALE

NOTE: THIS DRAWING WAS PREPARED IN COLOR. REPRODUCTION BY MEANS OTHER THAN EQUIVALENT COLOR COPYING MAY CAUSE SOME DATA TO BE LOST OR MISREPRESENTED.

GOOGLE EARTH PRO IMAGE DATED 5-14-2013

4/30/2015
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|--------|------------|
| DR.BY | T. SHUPERT |
| CHK.BY | J. STEINER |
| DATE | APRIL 2015 |

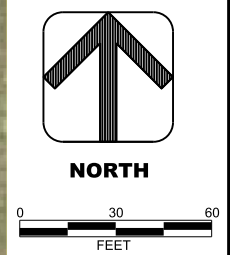
1910 20TH STREET & 2022 SCHOOL STREET
TWO RIVERS, WISCONSIN



SITE LOCATION MAP

FIGURE NO.

1



LEGEND

- AGP-11 SOIL PROBE
- ⊕ AMW-2 WATER TABLE OBSERVATION WELL
- APZ-1 PIEZOMETER
- ▲ VP-1 VAPOR PROBE
- × SURFACE WATER SPOT ELEVATION
- ⊕ GP-8 WDNR SOIL BORING LOCATIONS - 1999
- ▲ S-14 EPA SOIL SAMPLE LOCATIONS - 1999
- ⊕ MW-612 WPS MONITORING WELLS
- ⊕ SGP-24 SIGMA SOIL BORINGS - 2012
- (T-16) HISTORIC TANKS - REMOVED
- G NATURAL GAS LINE
- G --- HISTORIC U.S. OIL PIPELINE

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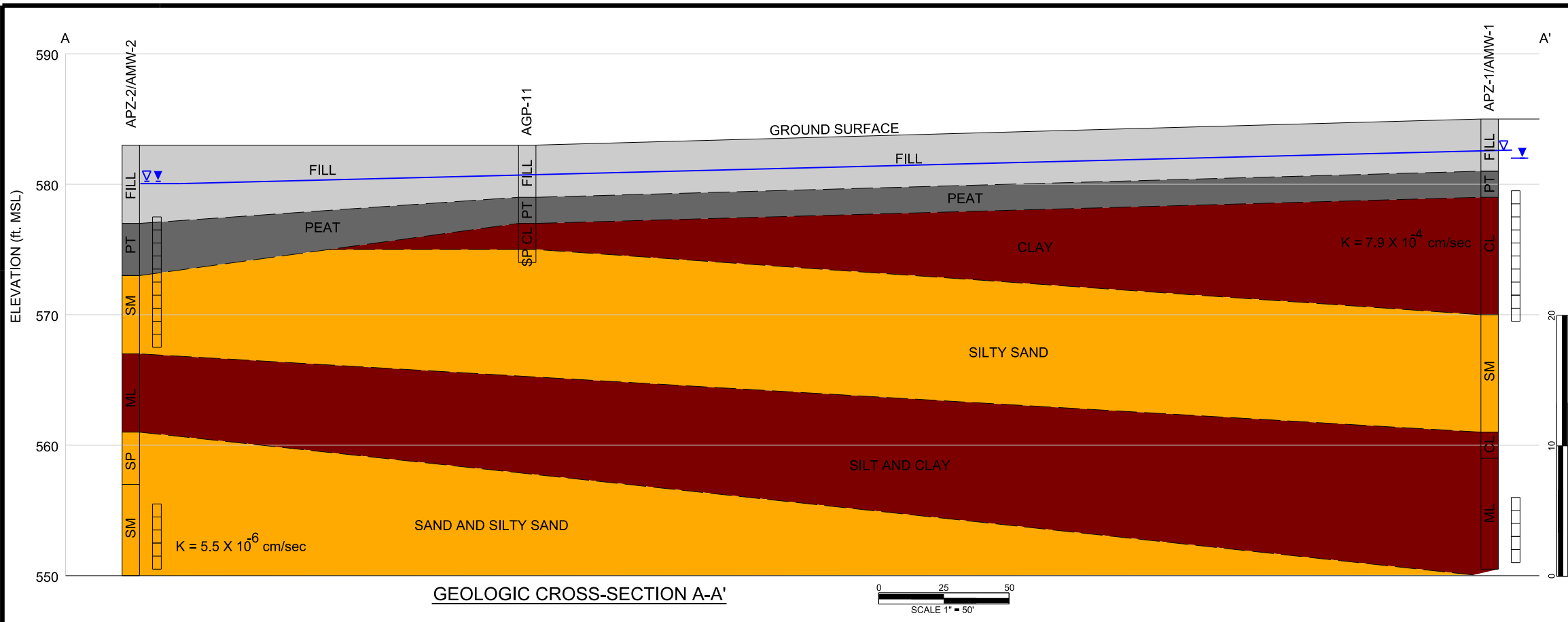
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| REVISION | | NO. | |

1910 20TH STREET & 2022 SCHOOL STREET
 TWO RIVERS, WISCONSIN



SITE MAP

DRAWING NO.
 2



LEGEND

- PT PEAT, HUMUS WITH HIGH ORGANIC CONTENT
- CL INORGANIC CLAYS OF LOW PLASTICITY
- ML INORGANIC SILTS AND VERY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
- SM SILTY SANDS, SAND-SILT MIXTURES
- SP POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES

WATER LEVEL MEASURED IN WATER TABLE OBSERVATION WELL
 WATER LEVEL MEASURED IN WATER TABLE PIEZOMETER WELL

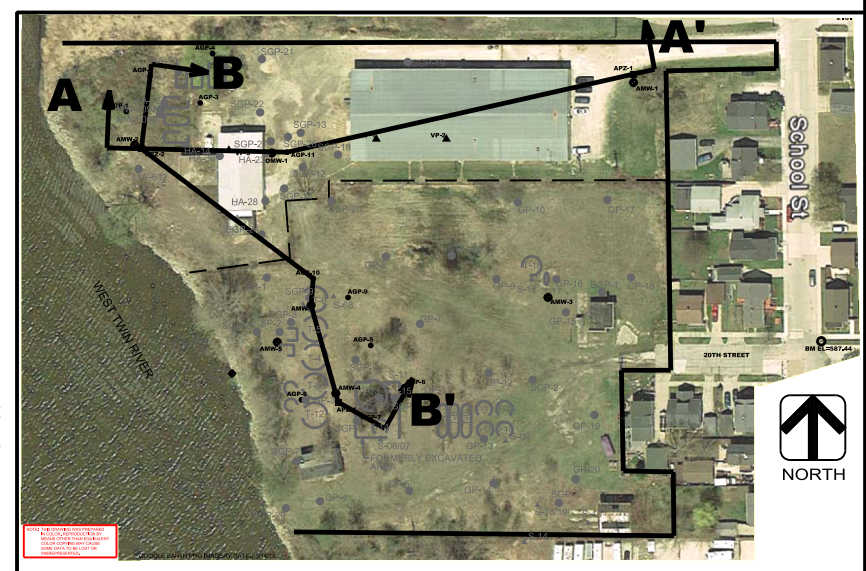
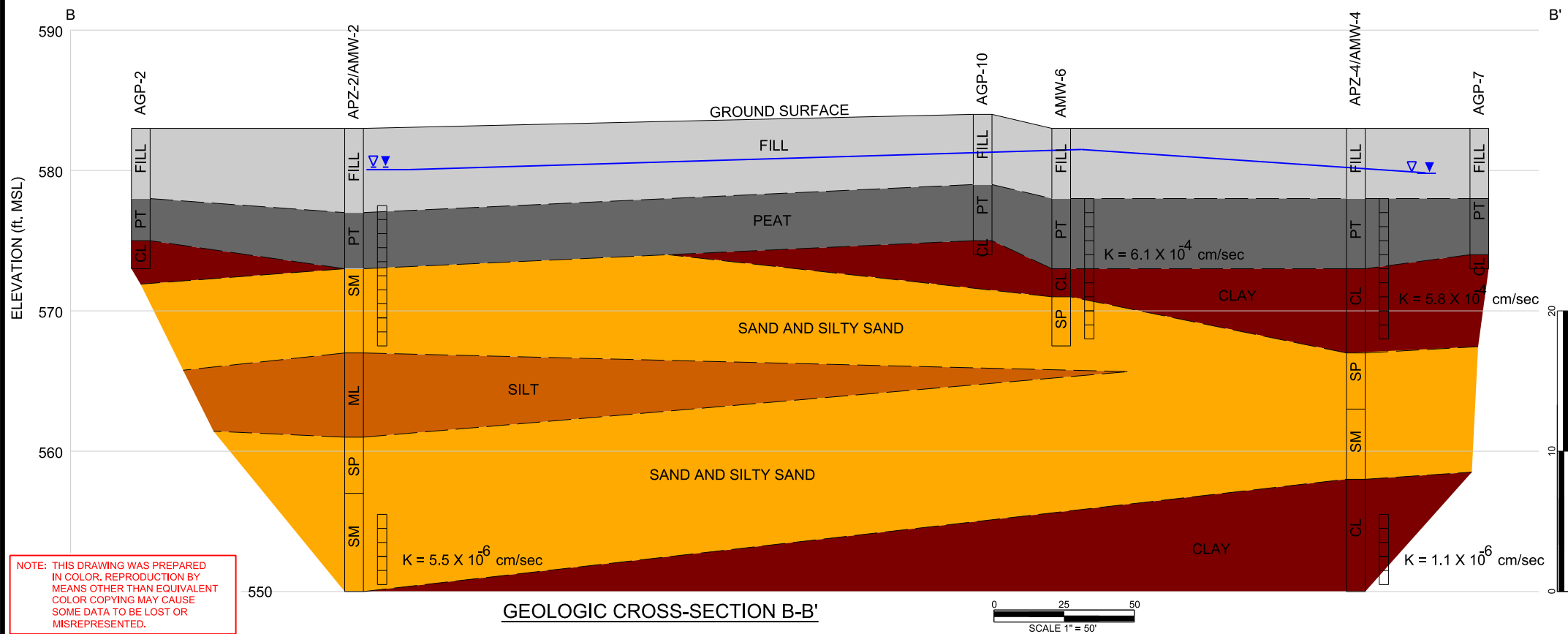
MONITORING WELL SCREEN INTERVAL

SOIL PROBE

 WATER TABLE OBSERVATION WELL

 PIEZOMETER

$K = 5.5 \times 10^{-6}$ HYDRAULIC CONDUCTIVITY (cm/sec)



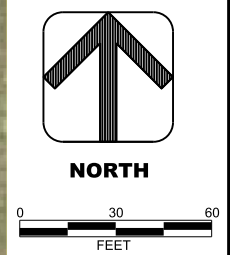
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| REVISION | | NO. | |
| REVISION | | DATE | |

1910 20TH STREET & 2022 SCHOOL STREET
TWO RIVERS, WISCONSIN





- LEGEND**
- (582.50) WATER TABLE ELEVATION
 - 582 — WATER TABLE CONTOUR
 - ESTIMATED GROUNDWATER FLOW DIRECTION
 - AGP-11 SOIL PROBE
 - ⊕ AMW-2 WATER TABLE OBSERVATION WELL
 - APZ-1 PIEZOMETER
 - ▲ VP-1 VAPOR PROBE
 - × SURFACE WATER SPOT ELEVATION
 - ⊕ GP-8 WDNR SOIL BORING LOCATIONS - 1999
 - ▲ S-14 EPA SOIL SAMPLE LOCATIONS - 1999
 - ⊕ MW-612 WPS MONITORING WELLS
 - ⊕ SGP-24 SIGMA SOIL BORINGS - 2012
 - (T-16) HISTORIC TANKS - REMOVED
 - G — NATURAL GAS LINE
 - - - G - - - HISTORIC U.S. OIL PIPELINE

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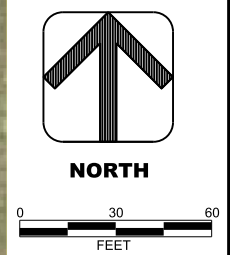
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| DR BY | T. SHUPERT | BOOK NO. | |
| CHK BY | J. STEINER | JOB NO. | 19-0558,00 |
| DATE | APRIL 2015 | SCALE | AS SHOWN |
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| REVISION | | NO. | |
| REVISION | | DATE | |

1910 20TH STREET & 2022 SCHOOL STREET
TWO RIVERS, WISCONSIN



WATER TABLE CONTOUR MAP

DRAWING NO. 4



- LEGEND**
- AGP-11 SOIL PROBE
 - ⊕ AMW-2 WATER TABLE OBSERVATION WELL
 - APZ-1 PIEZOMETER
 - ▲ VP-1 VAPOR PROBE
 - ✕ SURFACE WATER SPOT ELEVATION
 - ⊕ GP-8 WDNR SOIL BORING LOCATIONS - 1999
 - ▲ S-14 EPA SOIL SAMPLE LOCATIONS - 1999
 - ⊕ MW-612 WPS MONITORING WELLS
 - ⊕ SGP-24 SIGMA SOIL BORINGS - 2012
 - (T-16) HISTORIC TANKS - REMOVED
 - (582.50) POTENTIOMETRIC SURFACE ELEVATION
 - 582.0 — POTENTIOMETRIC SURFACE CONTOUR
 - ESTIMATED POTENTIOMETRIC SURFACE FLOW DIRECTION
 - G — NATURAL GAS LINE
 - - - G - - - HISTORIC U.S. OIL PIPELINE

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GOOGLE EARTH PRO IMAGERY DATED 5/14/13

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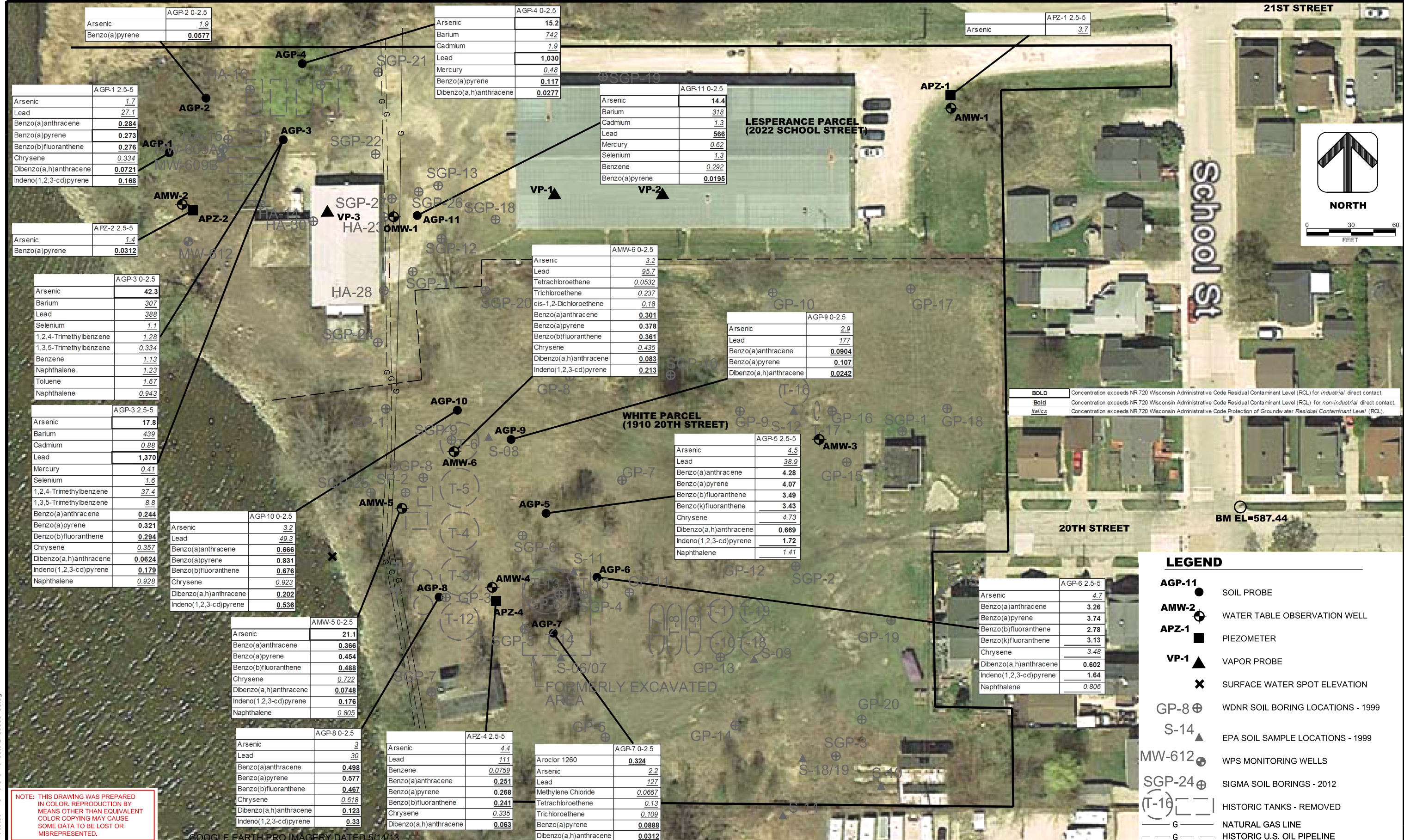
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| DR. BY | T. SHUPERT | BOOK NO. | |
| CHK. BY | J. STEINER | JOB NO. | 19-0558,00 |
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1910 20TH STREET & 2022 SCHOOL STREET
 TWO RIVERS, WISCONSIN



POTENTIOMETRIC SURFACE CONTOUR MAP

DRAWING NO. 5



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GOOGLE EARTH PRO IMAGERY DATED 5/14/13

BOLD Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for industrial direct contact.
Bold Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for non-industrial direct contact.
Italics Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater Residual Contaminant Level (RCL).

- LEGEND**
- **AGP-11** SOIL PROBE
 - ⊕ **AMW-2** WATER TABLE OBSERVATION WELL
 - **APZ-1** PIEZOMETER
 - ▲ **VP-1** VAPOR PROBE
 - ✕ SURFACE WATER SPOT ELEVATION
 - ⊕ **GP-8** WDNR SOIL BORING LOCATIONS - 1999
 - ▲ **S-14** EPA SOIL SAMPLE LOCATIONS - 1999
 - ⊕ **MW-612** WPS MONITORING WELLS
 - ⊕ **SGP-24** SIGMA SOIL BORINGS - 2012
 - ⊕ **(T-16)** HISTORIC TANKS - REMOVED
 - G — NATURAL GAS LINE
 - - - G - - - HISTORIC U.S. OIL PIPELINE

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1910 20TH STREET & 2022 SCHOOL STREET
 TWO RIVERS, WISCONSIN



Tables

Table 1
Groundwater Elevation Data
1910 20th Street and 2022 School Street
Two Rivers, Wisconsin

| WELL ID | TOP OF CASING ELEVATION ¹ | 4/8/2015 | | 4/14/2015 | | 5/20/2015 | |
|---------------|--------------------------------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|
| | | DEPTH TO WATER (ft) | GW ELEVATION | DEPTH TO WATER (ft) | GW ELEVATION | DEPTH TO WATER (ft) | GW ELEVATION |
| AMW-1 | 587.35 | 4.93 | 582.42 | 4.31 | 583.04 | 5.55 | 581.80 |
| APZ-1 | 587.78 | 12.70 | 575.08 | 5.71 | 582.07 | 5.77 | 582.01 |
| AMW-2 | 585.66 | 5.23 | 580.43 | 4.89 | 580.77 | 5.39 | 580.27 |
| APZ-2 | 585.53 | 5.02 | 580.51 | 4.74 | 580.79 | 4.92 | 580.61 |
| AMW-3 | 586.52 | 4.89 | 581.63 | 4.02 | 582.50 | 4.93 | 581.59 |
| AMW-4 | 585.07 | 3.62 | 581.45 | 2.77 | 582.30 | 3.82 | 581.25 |
| APZ-4 | 585.59 | 23.26 | 562.33 | 3.90 | 581.69 | 4.31 | 581.28 |
| AMW-5 | 584.72 | 3.71 | 581.01 | 3.58 | 581.14 | 4.12 | 580.60 |
| AMW-6 | 585.09 | 3.70 | 581.39 | 3.27 | 581.82 | 4.11 | 580.98 |
| OMW-1 | 583.40 | --- | --- | 2.11 | 581.29 | 2.49 | 580.91 |
| W. Twin River | | | | | 579.92 | | |

Note:

¹ All wells surveyed to USGS datum on 4/15/2015. Wells surveyed to top of PVC casing.

Bench mark is top of hydrant pump nozzle located at NE corner of 20th Street and School Street (587.44 ft msl)

| | |
|-----|--------------------------------------|
| --- | Water level measurement not obtained |
|-----|--------------------------------------|

Table 2
Summary of Hydraulic Conductivity Test Results
1910 20th Street & 2022 School Street
Two Rivers, Wisconsin

| Well/Test Number ¹ | Hydraulic Conductivity ² (ft/sec) | Hydraulic Conductivity ³ (cm/sec) | Material Surrounding ⁴ Screen (USCS) |
|-------------------------------|--|--|---|
| AMW-1 Slug In | 1.1 x 10 ⁻⁵ | 3.3 x 10 ⁻⁴ | PT, CL |
| AMW-1 Slug Out | 2.6 x 10 ⁻⁵ | 7.9 x 10 ⁻⁴ | PT, CL |
| APZ-2 Slug In | --- | --- | |
| APZ-2 Slug Out | 1.8 x 10 ⁻⁷ | 5.5 x 10 ⁻⁶ | SM |
| AMW-3 Slug In | 1.1 x 10 ⁻⁵ | 3.3 x 10 ⁻⁴ | SM, PT, CL |
| AMW-3 Slug Out | 1.1 x 10 ⁻⁵ | 3.3 x 10 ⁻⁴ | SM, PT, CL |
| AMW-4 Slug In | 1.9 x 10 ⁻⁵ | 5.8 x 10 ⁻⁴ | SP, PT, CL |
| AMW-4 Slug Out | 1.9 x 10 ⁻⁵ | 5.8 x 10 ⁻⁴ | SP, PT, CL |
| APZ-4 Slug In | 3.7 x 10 ⁻⁸ | 1.1 x 10 ⁻⁶ | CL |
| APZ-4 Slug Out | --- | --- | |
| AMW-5 Slug In | 4.1 x 10 ⁻⁵ | 1.2 x 10 ⁻³ | SP, PT, CL |
| AMW-5 Slug Out | 5.1 x 10 ⁻⁵ | 1.5 x 10 ⁻³ | SP, PT, CL |
| AMW-6 Slug In | 1.6 x 10 ⁻⁵ | 4.9 x 10 ⁻⁴ | SP, PT, CL |
| AMW-6 Slug Out | 2.0 x 10 ⁻⁵ | 6.1 x 10 ⁻⁴ | SP, PT, CL |

Notes:

¹Slug out test = rising head test

²ft/sec = hydraulic conductivity in units of feet per second

³cm/sec = hydraulic conductivity in units of centimeters per second

⁴See Figure 3 for Unified Soil Classification System (USCS) soil descriptions

Table 3
 Vertical Groundwater Gradient Data
 1910 20th Street and 2022 School Street
 Two Rivers, Wisconsin

| Well Nest | Vertical Distance (feet) | Groundwater Elevation (ft, MSL) | Vertical Gradient (ft./ft.) |
|-----------|--------------------------|---------------------------------|-----------------------------|
| AMW-1 | 21.5 | 581.80 | 0.009 |
| APZ-1 | | 582.01 | |
| AMW-2 | 20 | 580.27 | 0.017 |
| APZ-2 | | 580.61 | |
| AMW-4 | 20 | 581.25 | 0.0015 |
| APZ-4 | | 581.28 | |

Note:

1. Positive vertical gradient value indicates upward gradient.
2. "Vertical distance" is distance between well screens measured at midpoint of the

Table 4
Summary of Soil Sample Laboratory Analytical Results
1910 20th Street and 2022 School Street, Two Rivers, Wisconsin
4/6/15 and 4/7/2015

| Boring Number/Depth | Analytical Result (mg/kg) | | | | | | | | | | Soil Standards (1/2015) | | |
|---------------------------|---------------------------|---------------|--------------|---------------|---------------|--------------|--------------|---------------|--------------|----------------------------|----------------------------|---------------------|---------------------|
| | AGP-1 2.5-5 | AGP-2 0-2.5 | AGP-3 0-2.5 | AGP-3 2.5-5 | AGP-4 0-2.5 | AGP-5 2.5-5 | AGP-6 2.5-5 | AGP-7 0-2.5 | AGP-8 0-2.5 | AGP-9 0-2.5 | NR 720 DC RCL ¹ | Industrial | GW RCL ² |
| Soil Type | Fill, SP | Fill | Fill | Fill, PT | Fill | Fill | Fill | Fill, SP | Fill | Fill | | | |
| PCB | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | NR 720 DC RCL ¹ | Industrial | GW RCL ² | |
| Aroclor 1260 | -- | -- | -- | -- | -- | <0.0409 | <0.0283 | 0.324 | -- | -- | 0.221 | 0.744 | ns |
| Metals | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | NR 720 DC RCL ¹ | Industrial | GW RCL ² | |
| Arsenic | <u>1.7</u> | <u>1.9</u> | 42.3 | 17.8 | 15.2 | <u>4.5</u> | <u>4.7</u> | <u>2.2</u> | <u>3</u> | <u>2.9</u> | 0.613 (8) | 2.39 (8) | 0.584 |
| Barium | 40.6 | 15.4 | <u>307</u> | <u>439</u> | <u>742</u> | 63.1 | 31.8 | 32.5 | 83.6 | 77.1 | 15,300 | 100,000.0 | 164.8 |
| Cadmium | 0.086 | 0.097 | <u>0.88</u> | <u>1.9</u> | <u>1.9</u> | <0.097 | 0.072 | 0.28 | 0.17 | 0.28 | 70 | 799 | 0.752 |
| Chromium | 14.2 | 6.2 | <u>27.9</u> | <u>24.1</u> | <u>21.8</u> | 9.8 | 5.2 | 10 | 7.9 | 10.6 | (44) | (44) | 3.60E+05 |
| Lead | <u>27.1</u> | 11 | 388 | 1,370 | 1,030 | <u>38.9</u> | 17 | <u>127</u> | <u>30</u> | <u>177</u> | 400 | 800 | 27 |
| Mercury | 0.041 | 0.014 | <u>0.11</u> | <u>0.41</u> | <u>0.48</u> | 0.12 | 0.087 | 0.073 | 0.069 | 0.019 | 3.13 | 3.13 | 0.208 |
| Selenium | <0.88 | <0.84 | <u>1.1</u> | <u>1.6</u> | <1.2 | <1.1 | <0.79 | <0.8 | <0.83 | <0.88 | 391 | 5,110 | 0.52 |
| Silver | <0.32 | <0.3 | <0.35 | <0.37 | 0.48 | <0.39 | <0.29 | <0.29 | <0.3 | <0.32 | ns | ns | 0.85 |
| Volatile Organics | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | NR 720 DC RCL ¹ | Industrial | GW RCL ² | |
| 1,2,4-Trimethylbenzene | <0.025 | <0.025 | <u>1.28</u> | <u>37.4</u> | <0.0362 | 0.0446 | 0.0649 | 0.0522 | <0.025 | <0.025 | 89.8 | 219 | 1.3821 |
| 1,3,5-Trimethylbenzene | <0.025 | <0.025 | <u>0.334</u> | <u>8.8</u> | <0.0362 | 0.025 | 0.0294 | <0.025 | <0.025 | <0.025 | 182 | 182 | |
| Benzene | <0.025 | <0.025 | <u>1.13</u> | <0.129 | <0.0362 | 0.0508 | <0.025 | <0.025 | <0.025 | <0.025 | 1.49 | 7.41 | 0.0051 |
| Ethylbenzene | <0.025 | <0.025 | 1.18 | <0.129 | <0.0362 | <0.025 | <0.025 | 0.0362 | <0.025 | <0.025 | 7.47 | 37 | 1.57 |
| Methylene Chloride | <0.025 | <0.025 | <0.025 | <0.129 | <0.0362 | <0.025 | <0.025 | <u>0.0667</u> | <0.025 | <0.025 | 60.7 | 1,070 | 0.0026 |
| m & p-Xylene | <0.05 | <0.05 | 2.15 | 0.497 | <0.0725 | 0.082 | 0.102 | 0.14 | <0.050 | <0.050 | 258 | 388 | 3.94 |
| o-Xylene | <0.025 | <0.025 | 0.678 | <0.129 | <0.0362 | <0.025 | 0.0654 | 0.0536 | <0.025 | <0.025 | | | |
| Naphthalene | <0.04 | <0.04 | <u>1.23</u> | 0.453 | <0.058 | 0.266 | 1.13 | 0.0785 | <0.040 | <0.040 | 5.15 | 26 | 0.6582 |
| n-Butylbenzene | <0.025 | <0.025 | 1.65 | 1.65 | <0.0362 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 108 | 108 | ns |
| sec-Butylbenzene | <0.025 | <0.025 | 0.0851 | 0.675 | <0.0362 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 145 | 145 | ns |
| Isopropylbenzene | <0.025 | <0.025 | 0.0782 | 0.906 | <0.0362 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | ns | ns | ns |
| n-Propylbenzene | <0.025 | <0.025 | 0.411 | 3.88 | <0.0362 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | ns | ns | ns |
| Toluene | <0.025 | <0.025 | <u>1.67</u> | <0.129 | <0.0362 | 0.151 | 0.0986 | 0.16 | <0.025 | <0.025 | 818 | 818 | 1.072 |
| p-Isopropyltoluene | <0.025 | <0.025 | 0.0436 | <0.129 | 0.0957 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 162 | 162 | ns |
| Tetrachloroethene | <0.025 | <0.025 | <0.025 | <0.129 | <0.0362 | <0.025 | <0.025 | <u>0.13</u> | <0.025 | <0.025 | 30.7 | 153 | 0.0045 |
| Trichloroethene | <0.025 | <0.025 | <0.025 | <0.129 | <0.0362 | <0.025 | <0.025 | <u>0.109</u> | <0.025 | <0.025 | 1.26 | 8.81 | 0.0036 |
| cis-1,2-Dichloroethene | <0.025 | <0.025 | <0.025 | <0.129 | <0.0362 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 156 | 2,040 | 0.0412 |
| PAH | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | NR 720 DC RCL ¹ | Industrial | GW RCL ² | |
| 1-Methylnaphthalene | 0.0174 | <0.0091 | 0.764 | 1.06 | <0.0135 | 0.994 | 2 | 0.168 | 0.0857 | 0.161 | 15.6 | 53.1 | ns |
| 2-Methylnaphthalene | 0.016 | <0.0091 | 1.46 | 0.904 | 0.0139 | 1.28 | 0.515 | 0.312 | 0.18 | 0.242 | 229 | 2,200 | ns |
| Acenaphthene | 0.0504 | <0.0091 | <0.0434 | <0.0269 | <0.0135 | 1.08 | 3.74 | 0.023 | <0.0205 | <0.099 | 3,440 | 33,000 | ns |
| Acenaphthylene | 0.0345 | <0.0082 | <0.0388 | 0.178 | 0.043 | 0.989 | 1.44 | 0.0302 | 0.194 | 0.044 | ns | ns | ns |
| Anthracene | 0.175 | 0.0258 | <0.045 | 0.127 | 0.0363 | 2.86 | 3.48 | 0.0705 | 0.184 | 0.0452 | 17,200 | 100,000 | 196.7273 |
| Benzo(a)anthracene | 0.284 | 0.0619 | 0.0384 | 0.244 | 0.117 | 4.28 | 3.26 | 0.088 | 0.498 | 0.0904 | 0.148 | 2.11 | ns |
| Benzo(a)pyrene | 0.273 | 0.0577 | <0.031 | 0.321 | 0.117 | 4.07 | 3.74 | 0.0888 | 0.577 | 0.107 | 0.015 | 0.211 | 0.47 |
| Benzo(b)fluoranthene | 0.276 | 0.0519 | 0.0456 | 0.294 | 0.106 | 3.49 | 2.78 | 0.0801 | 0.467 | 0.107 | 0.148 | 2.11 | 0.4793 |
| Benzo(g,h,i)perylene | 0.198 | 0.0368 | <0.033 | 0.195 | 0.0737 | 1.56 | 1.71 | 0.272 | 0.396 | 0.075 | ns | ns | ns |
| Benzo(k)fluoranthene | 0.236 | 0.0578 | <0.048 | 0.311 | 0.113 | 3.43 | 3.13 | 0.0782 | 0.469 | 0.0907 | 1.48 | 21.1 | ns |
| Chrysene | <u>0.334</u> | 0.0729 | 0.123 | <u>0.357</u> | 0.141 | <u>4.73</u> | <u>3.48</u> | 0.117 | <u>0.618</u> | 0.128 | 14.8 | 211 | 0.1446 |
| Dibenzo(a,h)anthracene | 0.0721 | 0.0134 | <0.0318 | 0.0624 | 0.0277 | 0.669 | 0.602 | 0.0312 | 0.123 | 0.0242 | 0.015 | 0.211 | ns |
| Fluoranthene | 0.607 | 0.133 | 0.0547 | 0.431 | 0.186 | 8.16 | 7.25 | 0.174 | 0.789 | 0.15 | 2,290 | 22,000 | 88.8778 |
| Fluorene | 0.0658 | 0.0112 | 0.0501 | 0.0304 | <0.0135 | 1.65 | 4.35 | 0.0294 | 0.0396 | 0.0139 | 2,290 | 22,000 | 14.8027 |
| Indeno(1,2,3-cd)pyrene | 0.168 | 0.0334 | <0.033 | 0.179 | 0.0676 | 1.72 | 1.64 | 0.0855 | 0.33 | 0.0614 | 0.148 | 2.11 | ns |
| Naphthalene | 0.0159 | <0.0091 | <u>0.943</u> | <u>0.928</u> | 0.0186 | <u>1.41</u> | <u>0.806</u> | 0.171 | 0.128 | 0.154 | 5.15 | 26 | 0.6582 |
| Phenanthrene | 0.528 | 0.103 | 0.332 | 0.252 | 0.0764 | 6.95 | 10.3 | 0.214 | 0.436 | 0.181 | ns | ns | ns |
| Pyrene | 0.461 | 0.106 | 0.0735 | 0.44 | 0.162 | 7.6 | 7.14 | 0.193 | 0.745 | 0.156 | 1,720 | 16,500 | 54.1322 |

BOLD Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *industrial* direct contact.

Italic Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for *non-industrial* direct contact.

() Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater Residual Contaminant Level (RCL).

() Background threshold values are trace element maximum levels in Wisconsin surface soils from the USGS Report at: <http://pubs.usgs.gov/sir/2011/5202/>.

ns No NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) established.

-- Not Analyzed

< Concentration less than laboratory method detection limit.

mg/Kg Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).

¹NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)

²NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.

³Table includes summary of VOC analysis, see lab data sheets for complete list of analytes.

Table 4 (continued)
Summary of Soil Sample Laboratory Analytical Results
2022 School Road and 1910 20th Street, Two Rivers, Wisconsin
4/6/15 and 4/7/2015

| Boring Number/Depth | Analytical Result (mg/kg) | | | | | | | | | Soil Standards (1/2015) | | | |
|---------------------------|---------------------------|---------------|-------------|---------------|-------------|---------------|---------------|---------------|------------|-------------------------|----------------------------|---------------------|----------|
| | AGP-10 0-2.5 | AGP-11 0-2.5 | APZ-1 2.5-5 | APZ-2 2.5-5 | AMW-3 2.5-5 | APZ-4 2.5-5 | AMW-5 0-2.5 | AMW-6 0-2.5 | MeOH Blank | | NR 720 DC RCL ¹ | GW RCL ² | |
| Soil Type | Fill | Fill | Fill, PT | Fill | Fill, PT | Fill | Fill | Fill | | | Non-Industrial | Industrial | |
| PCB | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | | | | |
| Aroclor 1260 | -- | -- | <0.0264 | <0.0308 | -- | <0.0411 | -- | -- | -- | | 0.221 | 0.744 | ns |
| Metals | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | | | | |
| Arsenic | <u>3.2</u> | 14.4 | <u>3.7</u> | <u>1.4</u> | <2.8 | <u>4.4</u> | 21.1 | <u>3.2</u> | -- | | 0.613 (8) | 2.39 (8) | 0.584 |
| Barium | 39.9 | <u>318</u> | 18.4 | 19 | 79.1 | 71.2 | 55.5 | 54.8 | -- | | 15,300 | 100,000.0 | 164.8 |
| Cadmium | 0.16 | <u>1.3</u> | 0.12 | 0.097 | 0.4 | 0.21 | <0.074 | 0.35 | -- | | 70 | 799 | 0.752 |
| Chromium | 8.7 | 15.7 | 5.8 | 5.6 | 3.2 | 4.9 | 6.8 | 14.3 | -- | | (44) | (44) | 3.60E+05 |
| Lead | <u>49.3</u> | 566 | 6.3 | 8.7 | 16.7 | <u>111</u> | 20.6 | <u>95.7</u> | -- | | 400 | 800 | 27 |
| Mercury | 0.099 | <u>0.62</u> | 0.011 | 0.032 | 0.067 | 0.014 | 0.023 | 0.015 | -- | | 3.13 | 3 | 0.208 |
| Selenium | <0.87 | <u>1.3</u> | <0.81 | <0.92 | <3.4 | <1.2 | <0.86 | <0.84 | -- | | 391 | 5,110 | 0.52 |
| Silver | <0.31 | <0.37 | <0.29 | <0.33 | <1.2 | <0.42 | <0.31 | <0.3 | -- | | ns | ns | 0.85 |
| Volatile Organics | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.025 | 0.478 | <0.025 | <0.025 | <0.025 | <0.0275 | 0.0445 | 0.074 | <0.025 | | 89.8 | 219 | 1.3821 |
| 1,3,5-Trimethylbenzene | <0.025 | 0.445 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | 0.0725 | <0.025 | | 182 | 182 | |
| Benzene | <0.025 | <u>0.292</u> | <0.025 | <0.025 | <0.025 | <u>0.0759</u> | <0.025 | <0.025 | <0.025 | | 1.49 | 7.41 | 0.0051 |
| Ethylbenzene | <0.025 | 0.0509 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | 0.0437 | <0.025 | | 7.47 | 37 | 1.57 |
| Methylene Chloride | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | 60.7 | 1,070 | 0.0026 |
| m & p-Xylene | <0.050 | 0.55 | <0.05 | <0.05 | <0.05 | <0.0549 | <0.050 | 0.167 | <0.050 | | 258 | 388 | 3.94 |
| o-Xylene | <0.025 | 0.108 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | 0.0664 | <0.025 | | 5.15 | 26 | 0.6582 |
| Naphthalene | 0.0674 | <0.040 | <0.04 | <0.04 | <0.04 | <0.044 | 0.0994 | 0.192 | <0.040 | | 108 | 108 | ns |
| n-Butylbenzene | <0.025 | 0.101 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | 145 | 145 | ns |
| sec-Butylbenzene | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | ns | ns | ns |
| Isopropylbenzene | <0.025 | 0.0423 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | ns | ns | ns |
| n-Propylbenzene | <0.025 | 0.101 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | ns | ns | ns |
| Toluene | 0.0429 | 0.231 | <0.025 | <0.025 | <0.025 | <0.0275 | 0.0395 | 0.222 | <0.025 | | 818 | 818 | 1.072 |
| p-Isopropyltoluene | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <0.025 | <0.025 | | 162 | 162 | ns |
| Tetrachloroethene | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <u>0.0532</u> | <0.025 | | 30.7 | 153 | 0.0045 |
| Trichloroethene | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <u>0.237</u> | <0.025 | | 1.26 | 8.81 | 0.0036 |
| cis-1,2-Dichloroethene | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.0275 | <0.025 | <u>0.18</u> | <0.025 | | 156 | 2,040 | 0.0412 |
| PAH | | | | | | | | | | | | | |
| Analytical Result (mg/kg) | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 0.156 | 0.0648 | <0.0088 | 0.0642 | <0.076 | 0.224 | 0.733 | 0.245 | -- | | 15.6 | 53.1 | ns |
| 2-Methylnaphthalene | 0.261 | 0.0805 | <0.0088 | 0.113 | <0.076 | 0.29 | 1.78 | 0.475 | -- | | 229 | 2,200 | ns |
| Acenaphthene | <0.0206 | <0.0116 | <0.0088 | <0.0103 | <0.076 | 0.0226 | <0.0504 | 0.0388 | -- | | 3,440 | 33,000 | ns |
| Acenaphthylene | 0.324 | <0.0104 | <0.0079 | 0.0109 | <0.068 | 0.943 | 0.155 | 0.189 | -- | | ns | ns | ns |
| Anthracene | 0.269 | <0.012 | <0.0091 | 0.0114 | <0.0788 | 0.113 | 0.204 | 0.192 | -- | | 17,200 | 100,000 | 196.7273 |
| Benzo(a)anthracene | 0.666 | 0.0186 | 0.0119 | 0.0215 | 0.055 | 0.251 | 0.366 | 0.301 | -- | | 0.148 | 2.11 | ns |
| Benzo(a)pyrene | 0.831 | 0.0195 | 0.0135 | 0.0312 | <0.0544 | 0.268 | 0.454 | 0.378 | -- | | 0.015 | 0.211 | 0.47 |
| Benzo(b)fluoranthene | 0.676 | 0.0199 | 0.0092 | 0.0283 | <0.076 | 0.241 | 0.488 | 0.361 | -- | | 0.148 | 2.11 | 0.4793 |
| Benzo(g,h,i)perylene | 0.781 | 0.0155 | 0.0092 | 0.0249 | <0.0579 | 0.131 | 0.218 | 0.281 | -- | | ns | ns | ns |
| Benzo(k)fluoranthene | 0.673 | 0.0185 | 0.012 | 0.0343 | <0.0842 | 0.23 | 0.291 | 0.267 | -- | | 1.48 | 21.1 | ns |
| Chrysene | <u>0.923</u> | 0.0296 | 0.0166 | 0.0422 | 0.0974 | <u>0.335</u> | <u>0.722</u> | <u>0.435</u> | -- | | 14.8 | 211 | 0.1446 |
| Dibenzo(a,h)anthracene | 0.202 | <0.0085 | <0.0065 | <0.0075 | <0.0558 | 0.063 | 0.0748 | 0.083 | -- | | 0.015 | 0.211 | ns |
| Fluoranthene | 0.902 | 0.2274 | 0.0156 | 0.0818 | 0.118 | 0.464 | 0.378 | 0.0541 | -- | | 2,290 | 22,000 | 88.8778 |
| Fluorene | 0.041 | <0.0116 | <0.008 | <0.0103 | <0.076 | 0.0459 | 0.0543 | 0.0611 | -- | | 2,290 | 22,000 | 14.8027 |
| Indeno(1,2,3-cd)pyrene | 0.536 | 0.0128 | 0.0071 | 0.0218 | <0.0578 | 0.125 | 0.176 | 0.213 | -- | | 0.148 | 2.11 | ns |
| Naphthalene | 0.269 | 0.0643 | <0.0088 | 0.0835 | 0.133 | 0.223 | <u>0.805</u> | 0.289 | -- | | 5.15 | 26 | 0.6582 |
| Phenanthrene | 0.606 | 0.0474 | <0.0088 | 0.0976 | 0.124 | 0.409 | 0.411 | 0.526 | -- | | ns | ns | ns |
| Pyrene | 1.16 | 0.0245 | 0.0201 | 0.0665 | 0.125 | 0.422 | 0.868 | 0.621 | -- | | 1,720 | 16,500 | 54.1322 |

BOLD Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for industrial direct contact.
Bold Concentration exceeds NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for non-industrial direct contact.
Italics Concentration exceeds NR 720 Wisconsin Administrative Code Protection of Groundwater Residual Contaminant Level (RCL).
 () Background threshold values are trace element maximum levels in Wisconsin surface soils from the USGS Report at: <http://pubs.usgs.gov/sir/2011/5202>.
 ns No NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) established.
 -- Not Analyzed
 < Concentration less than laboratory method detection limit.
 mg/Kg Concentration reported as milligrams per kilogram, equivalent to parts per million (ppm).
¹NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL)
²NR 720 Wisconsin Administrative Code Residual Contaminant Level (RCL) for protection of groundwater.
³Table includes summary of VOC analysis, see lab data sheets for complete list of analytes.

Table 5
Groundwater Laboratory Analytical Data
1910 20th Street and 2022 School Street
Two Rivers, Wisconsin

| Well Number | | | | | | | | | | | | NR 140 | | |
|---|---------------------------------|-------------|-----------|-------------|-----------|-----------|------------|-----------|-----------|------------|------------|-----------------------|------|---|
| | APZ-1 | AMW-1 | APZ-2 | AMW-2 | AMW-3 | APZ-4 | AMW-4 | AMW-5 | AMW-6 | OMW-1 | Trip Blank | Groundwater Standards | | |
| Date | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | 4/14/2015 | ES | PAL | |
| RCRA Metals (dissolved) | Analytical Result (µg/L) | | | | | | | | | | | | | |
| Dissolved Arsenic | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | <7.2 | --- | 10 | 1 |
| Dissolved Barium | 29.4 | 56.8 | 96.6 | 238 | 186 | 184 | 97 | 174 | 190 | 271 | --- | 2,000 | 400 | |
| Dissolved Cadmium | <0.6 | <1.2 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | <0.6 | --- | 5 | 0.5 | |
| Dissolved Chromium | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | <2.1 | --- | 100 | 10 | |
| Dissolved Lead | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | --- | 15 | 1.5 | |
| Dissolved Mercury | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | --- | 2 | 0.2 | |
| Dissolved Selenium | <6.7 | 42.9 | <6.7 | <6.7 | <6.7 | <6.7 | <6.7 | <6.7 | <6.7 | <6.7 | --- | 50 | 10 | |
| Dissolved Silver | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | <2.7 | --- | 50 | 10 | |
| Volatile Organic Compounds | Analytical Result (µg/L) | | | | | | | | | | | | | |
| Trimethylbenzene (Total) | <0.5 | <0.5 | 0.51 | 2 | <0.5 | 0.66 | <0.5 | <0.5 | <0.5 | 55.9 | <0.5 | 480 | 96 | |
| Benzene | <0.5 | <0.5 | <0.5 | 2.7 | <0.5 | <0.5 | 2.3 | <0.5 | <0.5 | 6.1 | <0.5 | 5 | 1 | |
| 1,1-Dichloroethane | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | 1.6 | <0.24 | 0.3 | <0.24 | <0.24 | 850 | 85 | |
| Ethylbenzene | <0.5 | <0.5 | <0.5 | 0.74 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.2 | <0.5 | 700 | 140 | |
| Isopropylbenzene | <0.14 | <0.14 | <0.14 | 2.1 | <0.14 | <0.14 | <0.14 | <0.14 | <0.14 | 3 | <0.14 | ns | ns | |
| Xylene (total) | <1 | <1 | <1 | 3.7 | <0.5 | 1 | <1 | <1 | <1 | 13.3 | <1 | 2,000 | 400 | |
| Naphthalene | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | 3.8 | <2.5 | 100 | 10 | |
| n-Butylbenzene | <0.5 | <0.5 | <0.5 | 2.3 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | ns | ns | |
| n-Propylbenzene | <0.5 | <0.5 | <0.5 | 4.2 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 10.2 | <0.5 | ns | ns | |
| p-Isopropyltoluene | <0.5 | <0.5 | 0.88 | 1.3 | <0.5 | 1.8 | <0.5 | <0.5 | <0.5 | 0.63 | <0.5 | ns | ns | |
| sec-Butylbenzene | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | <2.2 | 2.6 | <2.2 | ns | ns | |
| Toluene | <0.5 | <0.5 | 0.6 | 1.7 | <0.5 | 0.78 | <0.5 | <0.5 | <0.5 | 1.2 | <0.5 | 800 | 160 | |
| Tetrachloroethene | <0.5 | <0.5 | <0.5 | 0.77 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 5 | 0.5 | |
| Polycyclic Aromatic Hydrocarbons | Analytical Result (µg/L) | | | | | | | | | | | | | |
| 1-Methylnaphthalene | 0.012 | 0.013 | 0.0042 | 16.7 | 0.0063 | 0.01 | 0.041 | 0.0056 | 0.028 | 1.4 | --- | ns | ns | |
| 2-Methylnaphthalene | 0.017 | 0.023 | <0.0028 | 0.21 | 0.009 | 0.017 | 0.07 | 0.0058 | 0.015 | 1.2 | --- | ns | ns | |
| Acenaphthene | 0.0087 | 0.0058 | 0.011 | 1.9 | 0.0062 | 0.0063 | 0.026 | <0.0049 | 0.22 | 0.056 | --- | ns | ns | |
| Acenaphthylene | <0.0051 | <0.0049 | 0.0055 | 0.35 | <0.0049 | <0.0048 | <0.0049 | <0.0049 | 0.016 | 0.0091 | --- | ns | ns | |
| Anthracene | <0.0042 | 0.0043 | 0.0073 | 0.15 | <0.004 | <0.0039 | 0.025 | <0.004 | 0.085 | 0.0098 | --- | 3,000 | 600 | |
| Benzo(a)anthracene | <0.0053 | <0.0051 | <0.0052 | <0.021 | <0.0051 | <0.005 | 0.011 | <0.0051 | <0.0051 | <0.005 | --- | ns | ns | |
| Benzo(a)pyrene | <0.0046 | <0.0044 | <0.0045 | <0.018 | <0.0044 | <0.0043 | <0.0044 | <0.0044 | <0.0044 | <0.0043 | --- | 0.2 | 0.02 | |
| Benzo(b)fluoranthene | <0.0055 | <0.0053 | <0.0054 | <0.021 | <0.0053 | <0.0052 | <0.0053 | <0.0053 | <0.0053 | <0.0052 | --- | 0.2 | 0.02 | |
| Benzo(g,h,i)perylene | <0.0036 | <0.0035 | <0.0035 | <0.014 | <0.0035 | <0.0034 | 0.0057 | <0.0035 | <0.0035 | <0.0034 | --- | ns | ns | |
| Benzo(k)fluoranthene | <0.0059 | <0.0056 | <0.0057 | <0.023 | <0.0056 | <0.0055 | <0.0056 | <0.0056 | <0.0056 | <0.0055 | --- | ns | ns | |
| Chrysene | <0.0044 | <0.0042 | 0.0045 | 0.018 | <0.0042 | <0.0041 | 0.006 | <0.0042 | 0.0058 | <0.0042 | --- | 0.2 | 0.02 | |
| Dibenzo(a,h)anthracene | <0.0058 | <0.0055 | <0.0056 | <0.022 | <0.0056 | <0.0054 | <0.0056 | <0.0055 | <0.0055 | <0.0055 | --- | ns | ns | |
| Fluoranthene | <0.0098 | <0.0093 | 0.034 | 0.1 | <0.0094 | 0.013 | 0.011 | <0.0093 | 0.23 | <0.0092 | --- | 400 | 80 | |
| Fluorene | 0.015 | 0.007 | 0.021 | 2.1 | 0.0054 | 0.015 | 0.019 | 0.004 | 0.0054 | 0.31 | 0.021 | 400 | 80 | |
| Indeno(1,2,3-cd)pyrene | <0.0037 | <0.0035 | <0.0036 | <0.014 | <0.0036 | <0.0035 | 0.0053 | <0.0035 | <0.0035 | <0.0035 | --- | ns | ns | |
| Naphthalene | 0.029 | 0.033 | 0.0071 | 0.8 | 0.011 | 0.017 | 0.14 | 0.0098 | 0.024 | 3.8 | --- | 100 | 10 | |
| Phenanthrene | 0.016 | 0.01 | 0.0092 | 2 | 0.018 | 0.035 | 0.039 | 0.011 | 0.37 | 0.018 | --- | ns | ns | |
| Pyrene | 0.0099 | <0.0076 | 0.037 | 0.084 | 0.0094 | 0.012 | 0.016 | <0.0076 | 0.14 | 0.0082 | --- | 250 | 50 | |

BOLD

Italics

ns

ug/L

Exceeds NR 140 Wisconsin Administrative Code Ground Water Enforcement Standard (ES)

Exceeds NR 140 Wisconsin Administrative Code Ground Water Preventive Action Limit (PAL)

No NR 140 Wisconsin Administrative Code Ground Water Enforcement Standard (ES) established

Not Analyzed

Concentration reported as micrograms per liter, equivalent to parts per billion (ppb).

Table includes summary of VOC analysis, see lab data sheets for complete list of analytes.

Table 6
Water Quality Field Parameters
1910 20th Street & 2022 School Street, Two Rivers, WI

| Well ID | Date | Temperature (F) | pH (pH) | Conductivity (μS/cm) | Turbidity (NTU) | Dissolved Oxygen (mg/L) | ORP (mV) |
|---------|-----------|-----------------|---------|----------------------|-----------------|-------------------------|----------|
| AMW-1 | 4/14/2015 | 45.4 | 6.96 | 457 | 8.59 | 7.63 | 219 |
| APZ-1 | 4/14/2015 | 50.0 | 7.61 | 267 | 3.85 | 9.06 | 236 |
| AMW-2 | 4/14/2015 | 45.0 | 6.85 | 638 | 9.36 | 0.09 | -20.0 |
| APZ-2 | 4/14/2015 | 49.1 | 7.24 | 367 | 48.9 | 5.71 | 106.0 |
| AMW-3 | 4/14/2015 | 47.0 | 6.43 | 605 | 11.1 | 0.11 | 79.0 |
| AMW-4 | 4/14/2015 | 42.1 | 6.57 | 658 | 1.74 | 0.10 | 5.0 |
| APZ-4 | 4/14/2015 | 49.9 | 7.03 | 601 | 247.5 | 9.55 | 115.0 |
| AMW-5 | 4/14/2015 | 50.4 | 6.53 | 925 | 12.2 | 0.09 | -58.0 |
| AMW-6 | 4/14/2015 | 46.0 | 6.74 | 696 | 28.9 | 0.10 | -28.0 |

Table 7
2022 School Street, Two Rivers
Non-Residential Sub-Slab Vapor Analytical Table

| Sample ID | VP-1 | VP-2 | VP-3 | Sub-Slab Soil Vapor Screening Level (ug/m3) |
|-------------------------|-------------|-------------|------------|---|
| Sample Date | 4/8/2015 | 4/8/2015 | 4/8/2015 | |
| Chemical | | | | |
| Tetrahydrofuran | <i>0.54</i> | <0.28 | <4.1 | NE |
| Ethyl Acetate | <i>1.1</i> | <0.25 | <3.8 | 3,100 |
| Chloromethane | <i>0.77</i> | <i>0.94</i> | <5.7 | 3,900 |
| Trichlorofluoromethane | <i>3.2</i> | <i>8.6</i> | <4.1 | 31,000 |
| Acetone | <i>31.4</i> | <i>27.7</i> | <36 | 1,400,000 |
| Benzene | <0.18 | <i>0.72</i> | <3.5 | 160 |
| 2-Butanone (MEK) | <i>5.3</i> | <i>1.1</i> | <8.1 | 220,000 |
| Carbon Disulfide | <0.11 | <i>1</i> | <2.1 | 31,000 |
| Cyclohexane | <0.2 | <i>1.6</i> | <3.8 | 260,000 |
| 1,1-Dichloroethene | <0.16 | <i>1.1</i> | <3.1 | 8,800 |
| Ethanol | <i>36</i> | <i>33.9</i> | <9.4 | NE |
| Dichlorodifluoromethane | <i>1.7</i> | <i>2</i> | <3.2 | 4,400 |
| 4-Methyl-2-Pentanone | <i>1.1</i> | <0.35 | <5.1 | 130,000 |
| 1,3-Dichlorobenzene | <i>25.2</i> | <i>25.9</i> | <i>40</i> | NE |
| Ethylbenzene | <i>1.6</i> | <i>9.3</i> | <5.3 | 490 |
| 4-Ethyltoluene | <i>1.5</i> | <i>2.2</i> | <5.2 | NE |
| n-Heptane | <i>1</i> | <i>0.92</i> | <4.8 | NE |
| n-Hexane | <i>1.2</i> | <i>1.5</i> | <3 | 31,000 |
| 2-Propanol | <i>1370</i> | <i>673</i> | <i>128</i> | NE |
| Methylene Chloride | <i>1.4</i> | <i>3</i> | <6.9 | 26,000 |
| Naphthalene | <i>2.7</i> | <i>2.3</i> | <7.7 | 360 |
| Styrene | <i>0.95</i> | <i>1.6</i> | <4 | 44,000 |
| Tetrachloroethene | <i>132</i> | <i>4</i> | <5.6 | 1,800 |
| Toluene | <i>3.4</i> | <i>10</i> | <4 | 220,000 |
| 1,2,4-Trimethylbenzene | <i>2.7</i> | <i>2.8</i> | <3.6 | 3,100 |
| 1,3,5-Trimethylbenzene | <i>0.92</i> | <i>1.4</i> | <6.2 | NE |
| m&p-Xylene | <i>3.1</i> | <i>9.8</i> | <4.2 | 44,000 |
| o-Xylene | <i>2.6</i> | <i>13.4</i> | <13.1 | 44,000 |

Non-Residential Air Screening Levels obtained from US EPA Regional Screening Level Table, November 2014
Sub-slab Soil Gas Screening levels calculated using a sub-slab to indoor air attenuation factor of 0.1

BOLD exceeds sub-slab soil gas screening levels
NE screening level not established

Appendix A
Geologic Logs & Monitoring Well Construction/Well
Development Forms

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W. | Well Name <u>Amw-1</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____ " or _____ " | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/06/2015</u> m m d d y y v v v v |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N. R. <input type="checkbox"/> E. <input type="checkbox"/> W. | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | |
| | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | |

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 587.35 ft. MSL

C. Land surface elevation 585.2 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 0 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.5 ft.

H. Screen joint, top _____ ft. MSL or 5.5 ft.

I. Well bottom _____ ft. MSL or 15.5 ft.

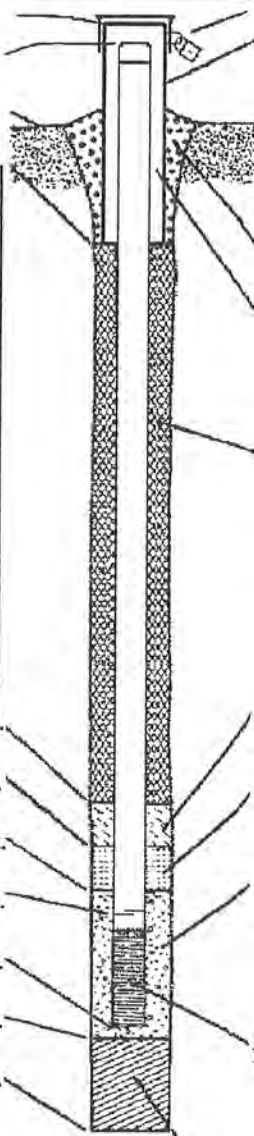
J. Filter pack, bottom _____ ft. MSL or 16 ft.

K. Borehole, bottom _____ ft. MSL or 16 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2 in.



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 5 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. _____ Ft³ 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. Unimin, Silica, 100
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. Unimin, Silica, 70
b. Volume added _____ ft³

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 _____
c. Slot size: 0.066 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 Jeff Stearns Firm Ayres Associates Inc.

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

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W. | Well Name <u>APZ-1</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> | Wis. Unique Well No. DNR Well ID No. |
| Facility ID | Lat. " Long. " or | Date Well Installed <u>8/06/2015</u> m m d d y y v v |
| Type of Well Well Code <u>12/ P2</u> | Section Location of Waste/Source 1/4 of 1/4 of Sec. T. N. R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-site Environment</u> |
| Distance from Waste/Source ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number |

A. Protective pipe, top elevation ----- ft. MSL
 B. Well casing, top elevation 587.78 ft. MSL
 C. Land surface elevation 585.2 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

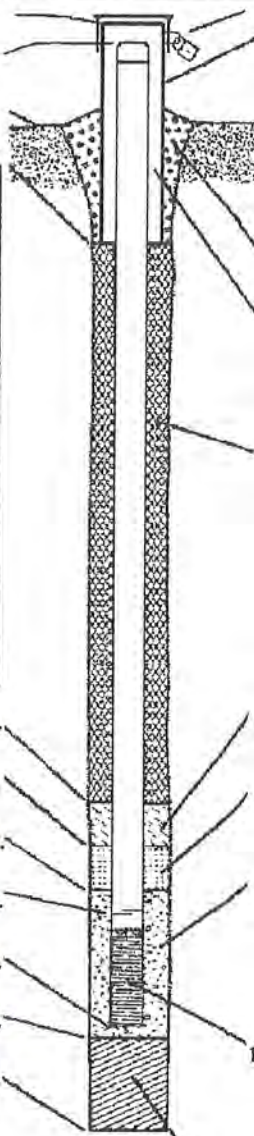
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

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):



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: 4 in.
 b. Length: 5 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. _____ Ft³ 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. Unimin Silica 100
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. Unimin Silica 70
 b. Volume added _____ ft³
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 _____
 c. Slot size: 0.006 in.
 d. Slotted length: 5 ft.
11. Backfill material (below filter pack): None 14
 Other

E. Bentonite seal, top ----- ft. MSL or 0 ft.
 F. Fine sand, top ----- ft. MSL or 25 ft.
 G. Filter pack, top ----- ft. MSL or 26 ft.
 H. Screen joint, top ----- ft. MSL or 28 ft.
 I. Well bottom ----- ft. MSL or 33 ft.
 J. Filter pack, bottom ----- ft. MSL or 33.5 ft.
 K. Borehole, bottom ----- ft. MSL or 33.5 ft.
 L. Borehole, diameter 8.25 in.
 M. O.D. well casing 2.25 in.
 N. I.D. well casing 2 in.

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

Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th st. & 2022 School St.</u> | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W. | Well Name <u>Amw-2</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/06/2015</u> m m d d y y y y |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number _____ |

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation 585.66 ft. MSL

C. Land surface elevation 582.8 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 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

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

E. Bentonite seal, top _____ ft. MSL or 0 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.5 ft.

H. Screen joint, top _____ ft. MSL or 5.5 ft.

I. Well bottom _____ ft. MSL or 15.5 ft.

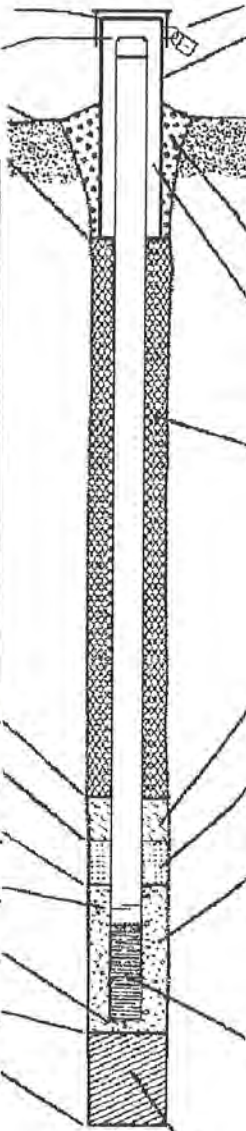
J. Filter pack, bottom _____ ft. MSL or 16 ft.

K. Borehole, bottom _____ ft. MSL or 16 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.25 in.

N. I.D. well casing 2 in.



1. Cap and lock? Yes No

2. Protective cover pipe:
 a. Inside diameter: _____ in. 4
 b. Length: _____ ft. 5
 c. Material: Steel 0 4
 Other

d. Additional protection? Yes No
 If yes, describe: _____

3. Surface seal: Bentonite 3 0
 Concrete 0 1
 Other

4. Material between well casing and protective pipe: Bentonite 3 0
 Other

5. Annular space seal:
 a. Granular/Chipped Bentonite 3 3
 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 c. _____ Lbs/gal mud weight Bentonite slurry 3 1
 d. _____ % Bentonite Bentonite-cement grout 5 0
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 0 1
 Tremie pumped 0 2
 Gravity 0 8

6. Bentonite seal:
 a. Bentonite granules 3 3
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
 a. Unimin Silica 100
 b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
 a. Unimin Silica 70
 b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other

10. Screen material: PVC
 a. Screen type: Factory cut 1 1
 Continuous slot 0 1
 Other

b. Manufacturer _____
 c. Slot size: _____ 0.006 in.
 d. Slotted length: _____ 10 ft.

11. Backfill material (below filter pack): None 1 4
 Other

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

Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W. | Well Name <u>APZ-2</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or _____ | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/06/2015</u> m m d d y y y y |
| Type of Well Well Code <u>12 / P2</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number _____ |

| | | |
|---|--|---|
| <p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation <u>585.53</u> ft. MSL</p> <p>C. Land surface elevation <u>582.8</u> ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or _____ ft.</p> <div style="border: 1px solid black; padding: 5px;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input checked="" type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis, if required): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or <u>0</u> ft.</p> <p>F. Fine sand, top _____ ft. MSL or <u>26.7</u> ft.</p> <p>G. Filter pack, top _____ ft. MSL or <u>25.7</u> ft.</p> <p>H. Screen joint, top _____ ft. MSL or <u>27.7</u> ft.</p> <p>I. Well bottom _____ ft. MSL or <u>32.7</u> ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or <u>33</u> ft.</p> <p>K. Borehole, bottom _____ ft. MSL or <u>33</u> ft.</p> <p>L. Borehole, diameter <u>8.25</u> in.</p> <p>M. O.D. well casing <u>2.25</u> in.</p> <p>N. I.D. well casing <u>2</u> in.</p> | | <p>1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: _____ in. <u>4</u> b. Length: _____ ft. <u>5</u> c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 100</u> b. Volume added _____ ft³</p> <p>8. Filter pack material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 70</u> b. Volume added _____ ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>b. Manufacturer _____ c. Slot size: <u>0.006</u> in. d. Slotted length: <u>5</u> ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p> |
|---|--|---|

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

Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well S ₁ , _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W. | Well Name <u>Amw-3</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID _____ | St. Plane _____ ft. N. _____ ft. E. S/C/N _____ | Date Well Installed <u>04/06/2015</u> m m d d y y v v |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number _____ |

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 586.52 ft. MSL
- C. Land surface elevation 584.1 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

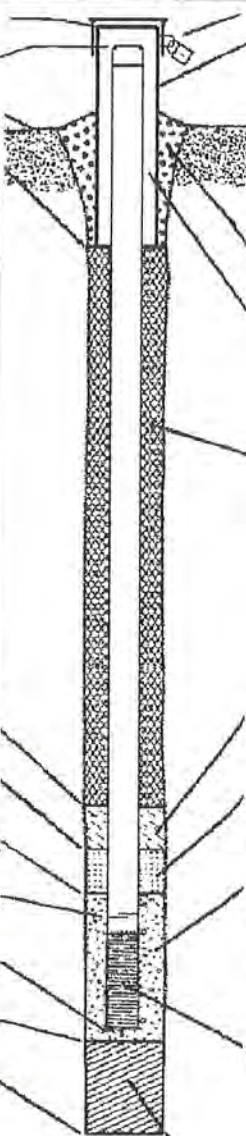
14. Drilling method used: Rotary 5 0
 Hollow Stem Auger 4 1
 Other

15. Drilling fluid used: Water 0 2 Air 0 1
 Drilling Mud 0 3 None 9 9

16. Drilling additives used? Yes No

Describe _____

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



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4 in.
 - b. Length: 5 ft.
 - c. Material: Steel 0 4
Other
 - d. Additional protection? Yes No
If yes, describe: _____
- 3. Surface seal: Bentonite 3 0
Concrete 0 1
Other
- 4. Material between well casing and protective pipe: Bentonite 3 0
Other
- 5. Annular space seal:
 - a. Granular/Chipped Bentonite 3 3
 - b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry 3 5
 - c. _____ Lbs/gal mud weight . . . Bentonite slurry 3 1
 - d. _____ % Bentonite Bentonite-cement grout 5 0
 - e. _____ Ft³ volume added for any of the above
 - f. How installed: Tremie 0 1
Tremie pumped 0 2
Gravity 0 8
- 6. Bentonite seal:
 - a. Bentonite granules 3 3
 - b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 3 2
 - c. _____ Other
- 7. Fine sand material: Manufacturer, product name & mesh size
 - a. Unimin Silica 100
 - b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 - a. Unimin Silica 70
 - b. Volume added _____ ft³
- 9. Well casing: Flush threaded PVC schedule 40 2 3
 Flush threaded PVC schedule 80 2 4
 Other
- 10. Screen material: PVC
 - a. Screen type: Factory cut 1 1
Continuous slot 0 1
Other
 - b. Manufacturer _____
 - c. Slot size: 0.006 in.
 - d. Slotted length: 10 ft.
- 11. Backfill material (below filter pack): None 1 4
Other

- E. Bentonite seal, top _____ ft. MSL or 0 ft.
- F. Fine sand, top _____ ft. MSL or 2.5 ft.
- G. Filter pack, top _____ ft. MSL or 3.5 ft.
- H. Screen joint, top _____ ft. MSL or 5.5 ft.
- I. Well bottom _____ ft. MSL or 15.5 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 2.25 in.
- N. I.D. well casing 2 in.

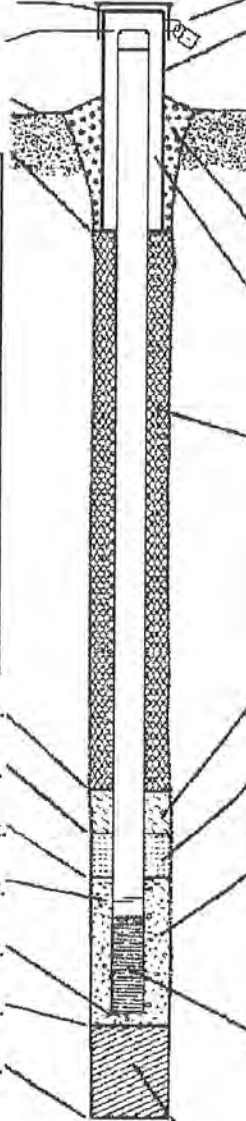
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well St. _____ ft. <input type="checkbox"/> N. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> E. <input type="checkbox"/> W. | Well Name <u>Amw-4</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/07/2015</u> m m d d y y v v v v |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number _____ |

| | |
|---|---|
| A. Protective pipe, top elevation _____ ft. MSL | 1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| B. Well casing, top elevation <u>585.07</u> ft. MSL | 2. Protective cover pipe: a. Inside diameter: _____ in. <u>4</u> b. Length: _____ ft. <u>5</u> c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____ |
| C. Land surface elevation <u>582.9</u> ft. MSL | 3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> |
| D. Surface seal, bottom _____ ft. MSL or _____ ft. | 4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> |
| 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> | 5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08 |
| 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> |
| 14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> | 7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin Silica 100</u> b. Volume added _____ ft ³ |
| 15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99 | 8. Filter pack material: Manufacturer, product name & mesh size a. <u>Unimin Silica 70</u> b. Volume added _____ ft ³ |
| 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ | 9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> |
| 17. Source of water (attach analysis, if required): _____ | 10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> |
| E. Bentonite seal, top _____ ft. MSL or <u>0</u> ft. | b. Manufacturer _____ c. Slot size: _____ in. <u>0.006</u> d. Slotted length: _____ ft. <u>10</u> |
| F. Fine sand, top _____ ft. MSL or <u>2.2</u> ft. | 11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> |
| G. Filter pack, top _____ ft. MSL or <u>3.2</u> ft. | |
| H. Screen joint, top _____ ft. MSL or <u>5.2</u> ft. | |
| I. Well bottom _____ ft. MSL or <u>15.2</u> ft. | |
| J. Filter pack, bottom _____ ft. MSL or <u>15.7</u> ft. | |
| K. Borehole, bottom _____ ft. MSL or <u>15.7</u> ft. | |
| L. Borehole, diameter <u>8.25</u> in. | |
| M. O.D. well casing <u>2.25</u> in. | |
| N. I.D. well casing <u>2</u> in. | |



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Jeff Steiner Firm Ayres Associates Inc.

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| | | |
|---|--|--|
| Facility/Project Name <u>1910 20th st. & 2022 School St.</u> | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W. | Well Name <u>APZ-4</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> | Wis. Unique Well No. <input type="checkbox"/> DNR Well ID No. <input type="checkbox"/> |
| Facility ID | St. Plane _____ ft. N, _____ ft. E. S/C/N | Date Well Installed <u>04/17/2015</u> m m d d y y v v |
| Type of Well Well Code <u>12 / 12A</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____, N. R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environmental</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |

- A. Protective pipe, top elevation _____ ft. MSL
- B. Well casing, top elevation 585.59 ft. MSL
- C. Land surface elevation 582.9 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

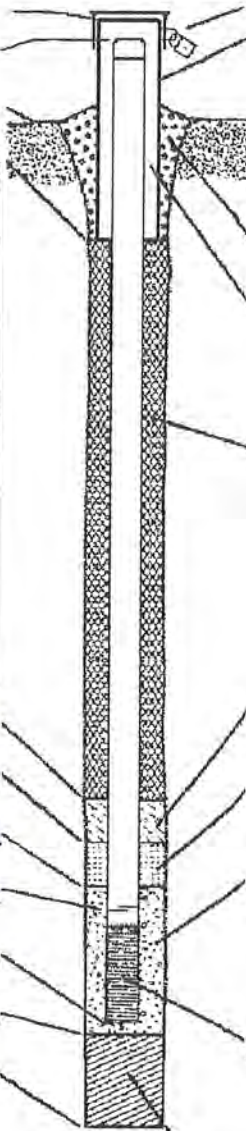
14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

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): _____



- 1. Cap and lock? Yes No
- 2. Protective cover pipe:
 - a. Inside diameter: 4 in.
 - b. Length: 5 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. _____ Ft³ 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. Unimin, Silica, 100
 b. Volume added _____ ft³
- 8. Filter pack material: Manufacturer, product name & mesh size
 a. Unimin, Silica, 70
 b. Volume added _____ ft³
- 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 _____
- c. Slot size: 0.066 in.
- d. Slotted length: 5.00 ft.
- 11. Backfill material (below filter pack): None 14
 Other

- E. Bentonite seal, top _____ ft. MSL or 0 ft.
- F. Fine sand, top _____ ft. MSL or 24.7 ft.
- G. Filter pack, top _____ ft. MSL or 25.7 ft.
- H. Screen joint, top _____ ft. MSL or 27.7 ft.
- I. Well bottom _____ ft. MSL or 32.7 ft.
- J. Filter pack, bottom _____ ft. MSL or 33 ft.
- K. Borehole, bottom _____ ft. MSL or 33 ft.
- L. Borehole, diameter 8.25 in.
- M. O.D. well casing 2.75 in.
- N. I.D. well casing 2 in.

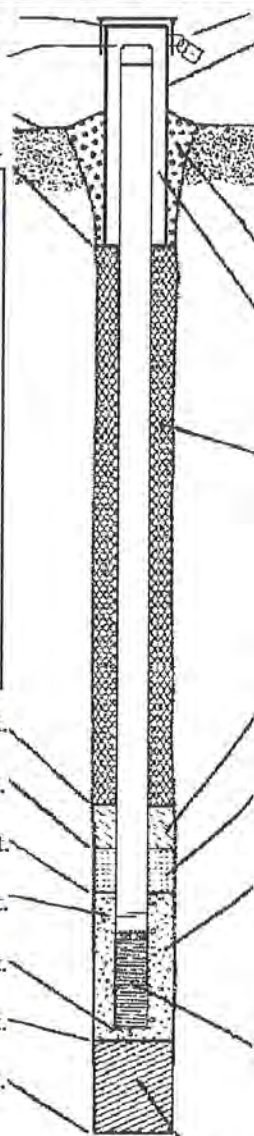
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Jeff Steiner Firm Ayres Associates Inc.

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| | | |
|---|---|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well _____ ft. <input type="checkbox"/> N. _____ ft. <input type="checkbox"/> E. _____ ft. <input type="checkbox"/> S. _____ ft. <input type="checkbox"/> W. | Well Name <u>Amw-5</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/07/2015</u> m m d d y y y y |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |
| | | Gov. Lot Number _____ |

| | |
|--|--|
| A. Protective pipe, top elevation _____ ft. MSL | 1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| B. Well casing, top elevation <u>584.72</u> ft. MSL | 2. Protective cover pipe: a. Inside diameter: <u>5</u> in. b. Length: <u>5</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 0 4 Other <input type="checkbox"/> |
| C. Land surface elevation <u>582.3</u> ft. MSL | d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____ |
| D. Surface seal, bottom _____ ft. MSL or _____ ft. | 3. Surface seal: Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/> |
| 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> | 4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/> |
| 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight . . . Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8 |
| 14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input checked="" type="checkbox"/> 4 1 Other <input type="checkbox"/> | 6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> |
| 15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input checked="" type="checkbox"/> 9 9 | 7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 100</u> b. Volume added _____ ft ³ |
| 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____ | 8. Filter pack material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 70</u> b. Volume added _____ ft ³ |
| 17. Source of water (attach analysis, if required): _____ | 9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> |
| E. Bentonite seal, top _____ ft. MSL or <u>0</u> ft. | 10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> |
| F. Fine sand, top _____ ft. MSL or <u>2.6</u> ft. | b. Manufacturer _____ c. Slot size: <u>0.006</u> in. d. Slotted length: <u>10</u> ft. |
| G. Filter pack, top _____ ft. MSL or <u>3.6</u> ft. | 11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/> |
| H. Screen joint, top _____ ft. MSL or <u>5.6</u> ft. | |
| I. Well bottom _____ ft. MSL or <u>15.6</u> ft. | |
| J. Filter pack, bottom _____ ft. MSL or <u>16</u> ft. | |
| K. Borehole, bottom _____ ft. MSL or <u>16</u> ft. | |
| L. Borehole, diameter <u>8.25</u> in. | |
| M. O.D. well casing <u>2.25</u> in. | |
| N. I.D. well casing <u>2</u> in. | |



I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | |
|---|---|--|
| Facility/Project Name <u>1910 20th St. & 2022 Scherl St.</u> | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W. | Well Name <u>Amw-6</u> |
| Facility License, Permit or Monitoring No. | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " | Wis. Unique Well No. _____ DNR Well ID No. _____ |
| Facility ID | St. Plane _____ ft. N. _____ ft. E. S/C/N | Date Well Installed <u>04/07/2015</u> m m d d y y y y |
| Type of Well Well Code <u>11 / MW</u> | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W | Well Installed By: Name (first, last) and Firm <u>On-Site Environment</u> |
| Distance from Waste/Source _____ ft. | Enf. Stds. Apply <input type="checkbox"/> | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known |

| | |
|--|---|
| A. Protective pipe, top elevation _____ ft. MSL | 1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| B. Well casing, top elevation <u>585.09</u> ft. MSL | 2. Protective cover pipe: a. Inside diameter: _____ in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____ |
| C. Land surface elevation <u>583.2</u> ft. MSL | 3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> |
| D. Surface seal, bottom _____ ft. MSL or _____ ft. | 4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> |
| 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input checked="" type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> | 5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08 |
| 13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> |
| 14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> | 7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin Silica 100</u> b. Volume added _____ ft ³ |
| 15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99 | 8. Filter pack material: Manufacturer, product name & mesh size a. <u>Unimin Silica 70</u> b. Volume added _____ ft ³ |
| 16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> |
| Describe _____ | 10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> |
| 17. Source of water (attach analysis, if required): _____ | b. Manufacturer _____ c. Slot size: _____ 0.006 in. d. Slotted length: _____ 10 ft. |
| E. Bentonite seal, top _____ ft. MSL or <u>0</u> ft. | 11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> |
| F. Fine sand, top _____ ft. MSL or <u>2.0</u> ft. | |
| G. Filter pack, top _____ ft. MSL or <u>2.9</u> ft. | |
| H. Screen joint, top _____ ft. MSL or <u>4.9</u> ft. | |
| I. Well bottom _____ ft. MSL or <u>14.9</u> ft. | |
| J. Filter pack, bottom _____ ft. MSL or <u>1.5</u> ft. | |
| K. Borehole, bottom _____ ft. MSL or <u>15</u> ft. | |
| L. Borehole, diameter <u>8.25</u> in. | |
| M. O.D. well casing <u>2.25</u> in. | |
| N. I.D. well casing <u>2</u> in. | |

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

Signature Jeff Steiner Firm Ayres Associates Inc.

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

| | | | | | |
|---|--|--|--|--|--|
| Facility/Project Name <u>1910 20th St. & 2022 School St.</u> | | Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. ft. <input type="checkbox"/> S. <input type="checkbox"/> W. | | Well Name | |
| Facility License, Permit or Monitoring No. | | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> | | Wis. Unique Well No. DNR Well ID No. | |
| Facility ID | | St. Plane _____ ft. N. _____ ft. E. S/C/N | | Date Well Installed ____/____/____ | |
| Type of Well Well Code <u>11 / MW</u> | | Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. <input type="checkbox"/> E <input type="checkbox"/> W | | Well Installed By: Name (first, last) and Firm <u>On-Site Environmental</u> | |
| Distance from Waste/Source _____ ft. | | Enf. Stds. Apply <input type="checkbox"/> | | Gov. Lot Number | |
| | | Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known | | | |

| | |
|--|---|
| A. Protective pipe, top elevation _____ ft. MSL | 1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| B. Well casing, top elevation _____ ft. MSL | 2. Protective cover pipe: a. Inside diameter: _____ in. <u>4</u> b. Length: _____ ft. <u>5</u> c. Material: _____ Steel <input type="checkbox"/> 0 4 Other <input type="checkbox"/> |
| C. Land surface elevation _____ ft. MSL | d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____ |
| D. Surface seal, bottom _____ ft. MSL or _____ ft. | 3. Surface seal: _____ Bentonite <input checked="" type="checkbox"/> 3 0 Concrete <input type="checkbox"/> 0 1 Other <input type="checkbox"/> |
| 12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/> | |
| 13. Sieve analysis performed? <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 14. Drilling method used: Rotary <input type="checkbox"/> 5 0 Hollow Stem Auger <input type="checkbox"/> 4 1 Other <input type="checkbox"/> | |
| 15. Drilling fluid used: Water <input type="checkbox"/> 0 2 Air <input type="checkbox"/> 0 1 Drilling Mud <input type="checkbox"/> 0 3 None <input type="checkbox"/> 9 9 | |
| 16. Drilling additives used? <input type="checkbox"/> Yes <input type="checkbox"/> No Describe _____ | |
| 17. Source of water (attach analysis, if required): _____ | |
| E. Bentonite seal, top _____ ft. MSL or _____ ft. | 4. Material between well casing and protective pipe: _____ Bentonite <input checked="" type="checkbox"/> 3 0 Other <input type="checkbox"/> |
| F. Fine sand, top _____ ft. MSL or _____ ft. | 5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 3 3 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 3 5 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 3 1 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 5 0 e. _____ Ft ³ volume added for any of the above f. How installed: _____ Tremie <input type="checkbox"/> 0 1 Tremie pumped <input type="checkbox"/> 0 2 Gravity <input checked="" type="checkbox"/> 0 8 |
| G. Filter pack, top _____ ft. MSL or _____ ft. | 6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 3 3 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 3 2 c. _____ Other <input type="checkbox"/> |
| H. Screen joint, top _____ ft. MSL or _____ ft. | 7. Fine sand material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 100</u> b. Volume added _____ ft ³ |
| I. Well bottom _____ ft. MSL or _____ ft. | 8. Filter pack material: Manufacturer, product name & mesh size a. <u>Unimin, Silica, 70</u> b. Volume added _____ ft ³ |
| J. Filter pack, bottom _____ ft. MSL or _____ ft. | 9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 2 3 Flush threaded PVC schedule 80 <input type="checkbox"/> 2 4 Other <input type="checkbox"/> |
| K. Borehole, bottom _____ ft. MSL or _____ ft. | 10. Screen material: <u>PVC</u> a. Screen type: _____ Factory cut <input checked="" type="checkbox"/> 1 1 Continuous slot <input type="checkbox"/> 0 1 Other <input type="checkbox"/> |
| L. Borehole, diameter _____ in. | b. Manufacturer _____ c. Slot size: _____ 0.006 in. d. Slotted length: _____ 10 ft. |
| M. O.D. well casing _____ in. | 11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 1 4 Other <input type="checkbox"/> |
| N. I.D. well casing _____ in. | |

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

Signature [Signature] Firm Ayres Associates Inc.

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

| | | |
|---|-------------|-------------------------|
| Facility/Project Name | County Name | Well Name |
| Facility License, Permit or Monitoring Number | County Code | Wis. Unique Well Number |
| | | DNR Well ID Number |

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 4 1
 - surged with bailer and pumped 6 1
 - surged with block and bailed 4 2
 - surged with block and pumped 6 2
 - surged with block, bailed and pumped 7 0
 - compressed air 2 0
 - bailed only 1 0
 - pumped only 5 1
 - pumped slowly 5 0
 - Other _____ _____
3. Time spent developing well _____ min.
4. Depth of well (from top of well casing) _____ ft.
5. Inside diameter of well _____ in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well _____ 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. _____ ft. | _____ ft. |
| Date | b. ____/____/____ | ____/____/____ |
| | m m d d y y y y | m m d d y y y y |
| Time | c. ____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. | ____:____ <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 1 0 Turbid <input type="checkbox"/> 1 5 (Describe) _____ | Clear <input type="checkbox"/> 2 0 Turbid <input type="checkbox"/> 2 5 (Describe) _____ |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | _____ mg/l | _____ mg/l |
| 15. COD | _____ mg/l | _____ mg/l |

17. Additional comments on development:

16. Well developed by: Name (first, last) and Firm

First Name: _____ Last Name: _____

Firm: _____

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: _____

Print Name: _____

Firm: _____

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

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

| | | | |
|---|------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>The Rivers</i> | County Name <i>Monroe</i> | Well Name <i>MW-1</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *peristaltic pump*
3. Time spent developing well *60* min.
4. Depth of well (from top of well casing) *15.5* ft.
5. Inside diameter of well *2.00* in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well *10.0* 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. <i>4.93</i> ft. | _____ ft. |
| Date | b. <i>04/08/2015</i> m m d d y y y y | <i>04/08/2015</i> m m d d y y y y |
| Time | c. <i>08:15</i> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <i>09:15</i> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <i>red/brown color</i> | Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | _____ mg/l | _____ mg/l |
| 15. COD | _____ mg/l | _____ mg/l |

16. Well developed by: Name (first, last) and Firm

First Name: *Erin* Last Name: *Gross*

Firm: *Ayres Associates*

17. Additional comments on development:

** pumped dry by 8:27 am - in 8 gal, yellowish, br color*

** started peristaltic pump @ 8:43 am (5.6 m³/h)*

** increased by 9:05 am, pumped dry by 9:08 am*

5 gal + 5 gal

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: *Erin Gross*

Print Name: *Erin Gross*

Firm: *Ayres Associates*

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

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

| | | | |
|---|---------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Menomonie</i> | Well Name <i>PZ-1</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *purge pump*

3. Time spent developing well *20* min.

4. Depth of well (from top of well casing) *33.0* ft.

5. Inside diameter of well *2.00* in.

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

7. Volume of water removed from well *10.0* 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)

17. Additional comments on development:

*4 gal + 1 gal + 4 gal
surged dry by 8:30 am (20 gal)
water purging - permit by 8:55 am not quite exact timing "11:15"
+ H2O2*

** still turbid ... may need to develop a little more*

** slow recovery*

11. Depth to Water (from top of well casing)

| | Before Development | After Development |
|------|---|---|
| a. | <i>12.70</i> ft. | _____ ft. |
| Date | <i>04/08/2015</i> | <i>04/08/2015</i> |
| | m m d d y y y y | m m d d y y y y |
| Time | <i>08:30</i> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <i>08:50</i> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m. |

12. Sediment in well bottom _____ inches

13. Water clarity

| | |
|---|---|
| Clear <input type="checkbox"/> 10 | Clear <input type="checkbox"/> 20 |
| Turbid <input checked="" type="checkbox"/> 15 | Turbid <input checked="" type="checkbox"/> 25 |
| (Describe) <i>brown</i> | (Describe) |
| <i>turbid</i> | |
| <i>opaque</i> | |

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

14. Total suspended solids _____ mg/l

15. COD _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: *Erin* Last Name: *Gross*
Firm: *Ayres Associates*

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: *Erin Gross*

Print Name: *Erin Gross*

Firm: *Ayres Associates*

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

| | | | |
|---|----------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Manitowish</i> | Well Name <i>MW-2</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *peristaltic pump*

3. Time spent developing well *63* min.

4. Depth of well (from top of well casing) *15.5* ft.

5. Inside diameter of well *2.00* in.

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

7. Volume of water removed from well *10.0* 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)

11. Depth to Water Before Development After Development
(from top of well casing) a. *5.23* ft. _____ ft.

Date b. *04/08/2015* *04/08/2015*
m m d d y y y y m m d d y y y y

Time c. *01:12* a.m. *02:15* p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity Clear 10 Clear 20
Turbid 15 Turbid 25
(Describe) (Describe)

slightly turbid
yellow

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

14. Total suspended _____ mg/l _____ mg/l
solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: *Erin* Last Name: *Gross*
Firm: *Ayres Associates*

17. Additional comments on development:

strong hydrocarbon odor
clear by 1:30 pm

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: *Erin Gross*

Print Name: *Erin Gross*

Firm: *Ayres Associates*

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

| | | | |
|---|----------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Manitowish</i> | Well Name <i>PZ-2</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *peristaltic pump*

3. Time spent developing well *63* min.

4. Depth of well (from top of well casing) *32.7* ft.

5. Inside diameter of well *2.00* in.

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

7. Volume of water removed from well *100* 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)

17. Additional comments on development:

slight hydrocarbon odor

11. Depth to Water Before Development After Development

(from top of well casing) a. *5.02* ft. _____ ft.

Date b. *04/08/2015 04/08/2015*
m m d d y y y y m m d d y y y y

Time c. *01:12* a.m. p.m. *02:15* a.m. p.m.

12. Sediment in well _____ inches bottom _____ inches

13. Water clarity Clear 10 Turbid 15
(Describe) (Describe)

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

14. Total suspended _____ mg/l _____ mg/l solids

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: *Erin* Last Name: *Gross*

Firm: *Ayres Associates*

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: *Erin Gross*

Print Name: *Erin Gross*

Firm: *Ayres Associates*

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

| | | | |
|---|---------------------------------|--------------------------|--------------------|
| Facility/Project Name <u>Two Rivers</u> | County Name <u>Menomonee</u> | Well Name <u>MW-3</u> | |
| Facility License, Permit or Monitoring Number | County Code <u>36</u> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No

2. Well development method

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

3. Time spent developing well 90 min.

4. Depth of well (from top of well casing) 15.5 ft.

5. Inside diameter of well 2.00 in.

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

7. Volume of water removed from well 30.0 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|--|---|---|
| 11. Depth to Water (from top of well casing) | a. <u>4.89</u> ft. | _____ ft. |
| Date | b. <u>04/07/2015</u> | <u>04/07/2015</u> |
| Time | c. <u>01:22</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. | <u>2:50</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>tan/gray opaque</u> | Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>slight yellow clear</u> |

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

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Erin Last Name: Gross

Firm: Ayres Associates

17. Additional comments on development:
* stopped purging @ 1:44pm, mostly purged dry & mostly clear (25 gal)
* started again @ 2:35pm, total of 30 gal pumped

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Erin Gross

Print Name: Erin Gross

Firm: Ayres Associates

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

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

| | | |
|---|----------------------------------|----------------------------------|
| Facility/Project Name <u>Two Rivers</u> | County Name <u>Manitowish</u> | Well Name <u>MW-4</u> |
| Facility License, Permit or Monitoring Number | County Code <u>36</u> | Wis. Unique Well Number _____ |
| | | DNR Well ID Number _____ |

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other large pump

3. Time spent developing well 45 min.

4. Depth of well (from top of well casing) 15.2 ft.

5. Inside diameter of well 2.00 in.

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

7. Volume of water removed from well 400 gal.

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

9. Source of water added _____

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

| | Before Development | After Development |
|--|---|--|
| 11. Depth to Water (from top of well casing) | a. <u>3.62</u> ft. | _____ ft. |
| Date | b. <u>04/07/2015</u> | <u>04/07/2015</u> |
| Time | c. <u>03:45</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. | <u>04:30</u> <input type="checkbox"/> a.m. <input checked="" type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>black/dk brown</u> <u>opaque</u> | Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) |

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

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Erin Last Name: Gross

Firm: Ayres Associates

17. Additional comments on development:
clear after ~25 gallons

Name and Address of Facility Contact /Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Erin Gross

Print Name: Erin Gross

Firm: Ayres Associates

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

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

| | | | |
|---|----------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Manitowish</i> | Well Name <i>PZ-4</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *perforated pipe*
3. Time spent developing well 36 min.
4. Depth of well (from top of well casing) 32.7 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 6.0 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)

- | | | |
|--|---------------------------|--------------------------|
| | <u>Before Development</u> | <u>After Development</u> |
|--|---------------------------|--------------------------|
11. Depth to Water (from top of well casing)
a. 23.26 ft. _____ ft.
- Date
b. 04/08/2015 04/08/2015
m m d d y y y y m m d d y y y y
- Time
c. 09:33 a.m. p.m. 10:39 a.m. p.m.
12. Sediment in well bottom _____ inches _____ inches
13. Water clarity
Clear 10 Clear 20
Turbid 15 Turbid 25
(Describe) (Describe)
- silty brown _____

- 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: Erin Last Name: Gross
Firm: Ayres Associates

17. Additional comments on development: *perforated pipe - see notes*

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____
Name: _____ Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Erin Gross

Print Name: Erin Gross

Firm: Ayres Associates

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

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

| | | | |
|---|----------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Manitowish</i> | Well Name <i>KW-5</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other *purge pump*
3. Time spent developing well 40 min.
4. Depth of well (from top of well casing) 15.6 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 900 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

- | | Before Development | After Development |
|---|--|---|
| 11. Depth to Water (from top of well casing) | a. <u>3.71</u> ft. | _____ ft. |
| Date | b. <u>01/27/2015</u> | <u>04/08/2015</u> |
| Time | c. <u>11:24</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>11:45</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>Blackish</u> | Clear <input type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | _____ mg/l | _____ mg/l |
| 15. COD | _____ mg/l | _____ mg/l |

16. Well developed by: Name (first, last) and Firm

First Name: Erin Last Name: Gross

Firm: Ayres Associates

17. Additional comments on development:
see 11b w/o gal

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Erin Gross

Print Name: Erin Gross

Firm: Ayres Associates

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

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

| | | | |
|---|----------------------------------|--------------------------|--------------------|
| Facility/Project Name <i>Two Rivers</i> | County Name <i>Manitowish</i> | Well Name <i>MW-6</i> | |
| Facility License, Permit or Monitoring Number | County Code <i>36</i> | Wis. Unique Well Number | DNR Well ID Number |

1. Can this well be purged dry? Yes No
2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other
3. Time spent developing well 60 min.
4. Depth of well (from top of well casing) 14.9 ft.
5. Inside diameter of well 2.00 in.
6. Volume of water in filter pack and well casing _____ gal.
7. Volume of water removed from well 50.0 gal.
8. Volume of water added (if any) _____ gal.
9. Source of water added _____
10. Analysis performed on water added? Yes No
(If yes, attach results)

| | Before Development | After Development |
|---|--|---|
| 11. Depth to Water (from top of well casing) | a. <u>3.70</u> ft. | <u>2.61</u> ft. |
| Date | b. <u>8/08/2015</u> m m d d y y y y | <u>10/08/2015</u> m m d d y y y y |
| Time | c. <u>9:55</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. | <u>10:55</u> <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| 12. Sediment in well bottom | _____ inches | _____ inches |
| 13. Water clarity | Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>dark brown color</u> | Clear <input checked="" type="checkbox"/> 20 Turbid <input type="checkbox"/> 25 (Describe) <u>clearer than before</u> |
| Fill in if drilling fluids were used and well is at solid waste facility: | | |
| 14. Total suspended solids | _____ mg/l | _____ mg/l |
| 15. COD | _____ mg/l | _____ mg/l |

16. Well developed by: Name (first, last) and Firm

First Name: Eric Last Name: Gross

Firm: Ayres Associates

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: _____ Last Name: _____

Facility/Firm: _____

Street: _____

City/State/Zip: _____

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

Signature: Eric Gross

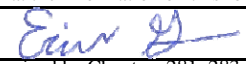
Print Name: Eric Gross

Firm: Ayres Associates

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

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




| Facility/Project Name 1910 20th Street & 2022 School Street | | | | License/Permit/Monitoring Numbe | | | Boring Number AGP-1 | | | | | | | |
|--|------------------------------|----------------------------|--------------------------------------|--|------|---|-------------------------------|------------------------------------|----------------------|------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | | Date Drilling Started 4/6/2015 M/D/Y | | Date Drilling Completed 4/6/2015 M/D/Y | | Drilling Method Geoprobe | | | | | | |
| WI Unique Well No. | | DNR Well Id No. | | Well Name | | Final Static Water Level | | Surface Elevation 583.7 | | | | | | |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County MANITOWOC | | County Code 36 | | Civil Town/City/or Village Two Rivers | | | | | | | | |
| SAMPLE | | 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 | | | | | RCD/Comments |
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Gravel, fill FILL, sand, some gravel, moist, fine grained sand, poorly graded, no odor, brown, tan, black | FILL | | | 0.3 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | SAND, wet, fine grained, poorly graded, hydrocarbon odor, dk brown | SP | | | 3.6 | | W | | | | |
| | | | -6 | PEAT, woodchips, shells, hydrocarbon odor, black, wet | PT | | | 1.9 | | W | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | | | | | | | | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | 16.5 | | W | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |


I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature  Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-10 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 583.4 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|---|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth in Feet (Below ground surface) | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Grass FILL, sand, some gravel, brick, coal, moist, poorly graded, no odor, brown/black | FILL |  | | 0.3 | | M | | | | |
| | | | -2 | | | | | 0.2 | | M | | | | |
| | | | -5 | PEAT, wood, wet, no odor, brown Wet at 5' | PT |  | | 0.1 | | W | | | | |
| | | | -6 | | | | | 0.2 | | W | | | | |
| | | | -10 | CLAY, wet, low plasticity, no odor, gray/lt. br | CL |  | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature  Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-11 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | 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 | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Gravel road FILL, sand, some med-lg gravel, brick, coal, moist, poorly graded, no odor, brown/black | FILL | | | 0.3 | | M | | | | |
| | | | -2 | | | | | 0.2 | | M | | | | |
| | | | -5 | PEAT, wood, moist, hydrocarbon odor, dk br Wet at 5' and no odor | PT | | | 0.1 | | W | | | | |
| | | | -8 | CLAY, some shells, wet, low plasticity, no odor, gray/lt. brown | CL | | | 0.2 | | W | | | | |
| | | | -10 | SAND, wet, med-fine grained, poorly graded no odor, gray/lt. brown | SP | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-2 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/6/2015 M/D/Y | Date Drilling Completed 4/6/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 582.6 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | 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 | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Gravel, fill FILL, sand, some gravel, moist, fine-med grained sand, poorly graded, no odor, brown | FILL | | | 0.9 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | Wet at 4' | | | | 1.0 | | W | | | | |
| | | | -5 | PEAT, woodchips, wet, no odor, brown | PT | | | 0.8 | | W | | | | |
| | | | -6 | Slight hydrocarbon odor at 6' | | | | | | | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | CLAY, wet, low plasticity, no odor, brown/gra | CL | | | 1.3 | | W | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Firm **AYRES ASSOCIATES**

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


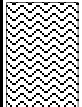
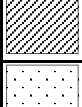
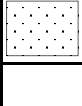
| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-3 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/6/2015 M/D/Y | Date Drilling Completed 4/6/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 583.3 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

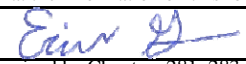
| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Gravel, fill | FILL | | | 1.8 | | M | | | | |
| | | | -2 | FILL, sand, some gravel, glass, coal, moist, med grained sand, poorly graded, hydrocarbon odor, brown, black | | | | | | | | | | |
| | | | -3 | Wet at 3' | | | | | | | | | | |
| | | | -4 | | | | | 1000 | | W | | | | |
| | | | -5 | PEAT, woodchips, wet, hydrocarbon odor, black | PT | | | | | W | | | | |
| | | | -6 | | | | | 1000 | | W | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | CLAY, trace very fine sand, wet, low plasticity, no odor, gray/brown | CL | | | 1.6 | | W | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs | | | | | | | | | | |
| | | | -12 | Abandoned with bentonite chips | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

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 Signature Firm **AYRES ASSOCIATES**

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




| Facility/Project Name 1910 20th Street & 2022 School Street | | | | License/Permit/Monitoring Numbe | | | Boring Number AGP-4 | | | | | | | |
|--|------------------------------|----------------------------|--------------------------------------|--|------|---|-------------------------------|------------------------------------|----------------------|--------------------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | | Date Drilling Started 4/7/2015 M/D/Y | | Date Drilling Completed 4/7/2015 M/D/Y | | Drilling Method Geoprobe | | | | | | |
| WI Unique Well No. | | DNR Well Id No. | | Well Name | | Final Static Water Level | | Surface Elevation 582.1 | | Borehole Dia. 2-inch | | | | |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County MANITOWOC | | County Code 36 | | Civil Town/City/or Village Two Rivers | | | | | | | | |
| SAMPLE | | 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 | | | | | RCD/Comments |
| Number and Type | Length Att. & Recovered (in) | | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Fill Material FILL, gravel, some sand, brick, coal, moist, med grained sand, poorly graded, no odor, brown, black | FILL |  | | 0.3 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | PEAT, some roots, moist, no odor, brown | PT |  | | 3.2 | | W | | | | |
| | | | -4 | Wet at 4' | | | | 7.0 | | W | | | | |
| | | | -5 | | | | | | | | | | | |
| | | | -6 | | | | | | | | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | CLAY, trace very fine sand, wet, low plasticity no odor, gray/brown | CL |  | | 7.0 | | W | | | | |
| | | | -9 | SAND, wet, fine grained sand, poorly graded no odor, gray | SP |  | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
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| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

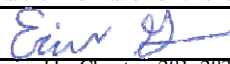
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 Signature  Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-5 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 582.3 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |




| SAMPLE | | | 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 | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|---|------|---|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Wetland/Prairie grass FILL, sand, some gravel, coal, moist, fine grained sand, poorly graded, no odor, tan Wet at 2' | FILL |  | | 0.3 | | M | | | | |
| | | | -2 | | | | | 0.3 | | W | | | | |
| | | | -5 | PEAT, wood, moist, slight hydrocarbon odor dark brown | PT |  | | 0.3 | | W | | | | |
| | | | -6 | | | | | 0.3 | | W | | | | |
| | | | -8 | | | | | 0.3 | | W | | | | |
| | | | -10 | CLAY, roots, wet, low plasticity, no odor, gra | CL |  | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
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| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |


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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-6 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 584.1 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
|-----------------|------------------------------|-------------|--------------------------------------|---|------|---|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Wetland/Prairie grass | FILL |  | | 0.4 | | M | | | | |
| | | | -2 | FILL, sand, some sm gravel, moist, med-fine grained sand, poorly graded, no odor, lt. brown | | | | 0.6 | | W | | | | |
| | | | -3 | Coal and shells from 3-4' | | | | | | | | | | |
| | | | -5 | PEAT, wood, wet, slight hydrocarbon odor, brown | PT |  | | 0.4 | | W | | | | |
| | | | -6 | | | | | 0.6 | | W | | | | |
| | | | -10 | CLAY, wet, low plasticity, no odor, gray/lt. br | CL |  | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
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| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

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 Signature  Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-8 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 582.2 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |


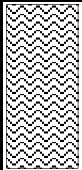

| SAMPLE | | | | SOIL PROPERTIES | | | | | | | RCD/Comments | | | |
|-----------------|------------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|--------------|------------------|-------|
| 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 | Compressive Strength | Moisture Content | | Liquid Limit | Plasticity Index | P-200 |
| | | | -1 | Grass FILL, sand, some sm gravel, coal, moist, poorly graded, no odor, brown | FILL | | | 0.3 | | M | | | | |
| | | | -2 | | | | | 1.0 | | M | | | | |
| | | | -5 | PEAT, wood, moist, slight hydrocarbon odor black-dk brown Wet at 5' | PT | | | 0.4 | | W | | | | |
| | | | -8 | | | | | 0.4 | | W | | | | |
| | | | -10 | CLAY, wet, low plasticity, no odor, gray/lt. br | CL | | | | | | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
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| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

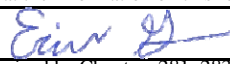
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Route to:
 Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

| | | | | | |
|--|-----------------|----------------------------|--|---|------------------------------------|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AGP-9 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method Geoprobe |
| WI Unique Well No. | DNR Well Id No. | Well Name | Final Static Water Level | Surface Elevation 583.8 | Borehole Dia. 2-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44 ° 09' 06.58" N Long 87 ° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|---|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Grass | FILL |  | | 0.1 | | M | | | | |
| | | | -2 | FILL, sand, some gravel, moist, poorly graded, no odor, lt. brown/gray | | | | 0.1 | | M | | | | |
| | | | -5 | PEAT, wood, moist, no odor, brown | PT |  | | 0.1 | | W | | | | |
| | | | -6 | Wet at 5' | | | | | | | | | | |
| | | | -8 | CLAY, wet, low plasticity, no odor, gray/lt. br | CL |  | | 0.1 | | W | | | | |
| | | | -11 | EOB @ 10 feet bgs Abandoned with bentonite chips | | | | | | | | | | |

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 Signature  Firm **AYRES ASSOCIATES**

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

| Facility/Project Name 1910 20th Street & 2022 School Street | | | | License/Permit/Monitoring Numbe | | | Boring Number AMW-1 | | | | | | | |
|--|------------------------------|---------------------------------|--------------------------------------|---|------|---|-------------------------------|---|----------------------|------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | | Date Drilling Started 4/6/2015 M/D/Y | | Date Drilling Completed 4/6/2015 M/D/Y | | Drilling Method 8.25" Hollow Stem Auger | | | | | | |
| WI Unique Well No. | | DNR Well Id No. AMW-1 | | Well Name | | Final Static Water Level 4.31 | | Surface Elevation 585.2 | | | | | | |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County MANITOWOC | | County Code 36 | | Civil Town/City/or Village Two Rivers | | | | | | | | |
| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | ROD/Comments |
| | | | -1 | Lawn Grass FILL, sand, some sm gravel, some roots, mo fine grained, poorly graded, no odor, brown | FILL | | | 0.3 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | PEAT, wood, moist, organic odor, dk brown | PT | | | 0.9 | | M | | | | |
| | | | -6 | CLAY, silty, trace sand, wet, low to medium no odor, gray/pink | CL | | | 0.9 | | W | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | Occasional silty sand laminations throughout clay | | | | 0.6 | | W | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | EOB @ 16 feet bgs Well set @ 15.5 feet | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *Evan Deoss* Firm **AYRES ASSOCIATES**

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

| | | | | |
|--|----------------------------|--|---|---|
| Facility/Project Name 1910 20th Street & 2022 School Street | | License/Permit/Monitoring Numbe | | Boring Number AMW-2 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | Date Drilling Started 4/6/2015 M/D/Y | Date Drilling Completed 4/6/2015 M/D/Y | Drilling Method 8.25" Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. | Well Name AMW-2 | Final Static Water Level 4.89 | Surface Elevation 582.8 |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | 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 | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--------------------------------------|--|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | -1 | Gravel/Fill FILL, sand, trace to some silty, moist, fine-m grained, hydrocarbon odor, gray/black | FILL | | | 0.4 | | M | | | | |
| | | | -2 | | | | | | | | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | | | | | | | | | | | |
| | | | -6 | PEAT, wood, wet, hydrocarbon odor, dk brov | PT | | | 0.4 | | M | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | | | | | | | | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | SAND, trace to some silt, wet, fine grained, hydrocarbon odor, dark brown | SM | | | 2.6 | | W | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | | | | | | | | | | | |
| | | | -17 | EOB @ 16 feet bgs Well set @ 15.5 feet | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *Evan Deoss* Firm **AYRES ASSOCIATES**

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

| | | | | | |
|--|-----------------|----------------------------|--|--|---|
| Facility/Project Name 1910 20th Street & 2022 School Street | | | License/Permit/Monitoring Numbe | | Boring Number AMW-3 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method 8.25" Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. | Well Name AMW-3 | Final Static Water Level 4.02 | Surface Elevation 584.1 | Borehole Dia. 8.25-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> Feet <input type="checkbox"/> W | |
| Facility Id. | | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | USCS | Graphic Log | Well Diagram | PID/FID | SOIL PROPERTIES | | | | | RCD/Comments |
|-----------------|------------------------------|-------------|--|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| Number and Type | Length Att. & Recovered (in) | Blow Counts | | | | | | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | |
| | | | Gravel/Fill FILL, sand, some gravel, some roots, coal, moist, fine-med grained, poorly graded, no odor, black/brown | FILL | | | 0.4 | | M | | | | |
| | | | PEAT, wood, moist, no odor, black-tan Wet at 4' | PT | | | 0.4 | | M | | | | |
| | | | CLAY, some roots, wet, low plasticity, no odor, gray/tan | CL | | | 0.4 | | W | | | | |
| | | | SAND, silty, some sm gravel, some roots, w fine-med grained, no odor, gray | SM | | | 0.4 | | W | | | | |
| | | | EOB @ 16 feet bgs Well set @ 15.5 feet | | | | 0.4 | | W | | | | |

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 Signature *Evan Deoss* Firm **AYRES ASSOCIATES**

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

| Facility/Project Name 1910 20th Street & 2022 School Street | | | | License/Permit/Monitoring Numbe | | | Boring Number AMW-4 | | | | | | | |
|--|------------------------------|---------------------------------|--------------------------------------|---|------|---|-------------------------------|---|----------------------|------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | | Date Drilling Started 4/7/2015 M/D/Y | | Date Drilling Completed 4/7/2015 M/D/Y | | Drilling Method 8.25" Hollow Stem Auger | | | | | | |
| WI Unique Well No. | | DNR Well Id No. AMW-4 | | Well Name | | Final Static Water Level 2.77 | | Surface Elevation 582.9 | | | | | | |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County MANITOWOC | | County Code 36 | | Civil Town/City/or Village Two Rivers | | | | | | | | |
| SAMPLE | | | SOIL PROPERTIES | | | | | | | | | | | |
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Grass FILL, sand, some sm gravel, moist, med-fine grained, poorly graded, no odor, brown/black | FILL | | | 0.4 | | M | | | | |
| | | | -2 | | | | | 0.4 | | W | | | | |
| | | | -5 | PEAT, wood, wet, slight hydrocarbon odor, brown | PT | | | | | W | | | | |
| | | | -10 | CLAY, silty, roots, wet, low plasticity, no odor gray | CL | | | | 2.6 | W | | | | |
| | | | -14 | Shells at bottom of CL layer | | | | | 1.0 | W | | | | |
| | | | -16 | SAND, wet, med-fine grained, poorly graded no odor, gray/brown | SP | | | | | | | | | |
| | | | -18 | EOB @ 15.7 feet bgs Well set @ 15.2 feet | | | | | | | | | | |

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

| | | | | |
|--|---------------------------------|--|--|---|
| Facility/Project Name 1910 20th Street & 2022 School Street | | License/Permit/Monitoring Numbe | | Boring Number AMW-5 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | Date Drilling Started 4/7/2015 M/D/Y | Date Drilling Completed 4/7/2015 M/D/Y | Drilling Method 8.25" Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. AMW-5 | Well Name 3.58 | Final Static Water Level 582.3 | Surface Elevation 8.25-inch |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> Feet <input type="checkbox"/> W | |
| Facility Id. | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | SOIL PROPERTIES | | | | | | | | | | | |
|-----------------|------------------------------|-------------|--------------------------------------|--|-------------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Grass FILL, sand, some sm gravel, brick, roots, slat moist, med grained, poorly graded, no odor, dk brown-black | FILL | | | 0.4 | | M | | | | |
| | | | -2 | NO RECOVERY | NO RECOVERY | | | 0.4 | | W | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | PEAT, wet, organic odor, brown-dk brown | PT | | | | | | W | | | |
| | | | -5 | Shells from 8-8.5' | | | | | | | | | | |
| | | | -6 | CLAY, wet, low plasticity, no odor, gray/brown | CL | | | 2.6 | | W | | | | |
| | | | -7 | | | | | 1.0 | | W | | | | |
| | | | -8 | SAND, wet, med-fine grained, poorly graded no odor, gray/brown | SP | | | | | | | | | |
| | | | -9 | EOB @ 16.1 feet bgs Well set @ 15.6 feet | | | | | | | | | | |

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

| Facility/Project Name 1910 20th Street & 2022 School Street | | | | License/Permit/Monitoring Number | | | Boring Number AMW-6 | | | | | | | |
|--|------------------------------|---------------------------------|--------------------------------------|--|------|---|-------------------------------|---|----------------------|------------------|--------------|------------------|-------|--------------|
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | | | Date Drilling Started 4/7/2015 M/D/Y | | Date Drilling Completed 4/7/2015 M/D/Y | | Drilling Method 8.25" Hollow Stem Auger | | | | | | |
| WI Unique Well No. | | DNR Well Id No. AMW-6 | | Well Name | | Final Static Water Level 3.27 | | Surface Elevation 583.2 | | | | | | |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> Feet <input type="checkbox"/> S <input type="checkbox"/> Feet <input type="checkbox"/> W | | | | | | | | |
| Facility Id. | | County MANITOWOC | | County Code 36 | | Civil Town/City/or Village Two Rivers | | | | | | | | |
| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | RCD/Comments |
| | | | -1 | Grass | | | | | | | | | | |
| | | | -2 | FILL, sand, some sm gravel, brick, coal, moist, med-fine grained, poorly graded, slight hydrocarbon odor, black/gray/brown | FILL | | | 0.4 | | M | | | | |
| | | | -3 | | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | | | | | | | | | | | |
| | | | -6 | PEAT, wood, wet, no odor, brown | PT | | | 0.4 | | W | | | | |
| | | | -7 | | | | | | | | | | | |
| | | | -8 | | | | | | | | | | | |
| | | | -9 | | | | | | | | | | | |
| | | | -10 | CLAY, shells, wet, low plasticity, no odor, tan/gray | CL | | | 2.6 | | W | | | | |
| | | | -11 | | | | | | | | | | | |
| | | | -12 | SAND, trace silt, wet, med-fine grained, poorly graded, no odor, gray/brown | SP | | | 1.0 | | W | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | EOB @ 15.4 feet bgs Well set @ 14.9 feet | | | | | | | | | | |
| | | | -17 | | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | | | | | | | | | | | |
| | | | -24 | | | | | | | | | | | |
| | | | -25 | | | | | | | | | | | |

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

| | | | | |
|--|---------------------------------|--|---|---|
| Facility/Project Name 1910 20th Street & 2022 School Street | | License/Permit/Monitoring Numbe | | Boring Number A-PZ-1 |
| Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc. | | Date Drilling Started 4/6/2015 M/D/Y | Date Drilling Completed 4/6/2015 M/D/Y | Drilling Method 8.25" Hollow Stem Auger |
| WI Unique Well No. | DNR Well Id No. APZ-1 | Well Name | Final Static Water Level 5.71 | Surface Elevation 585.2 |
| Local Grid Origin 1 (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E T 19 N, R 24 E | | Lat. 44° 09' 06.58" N Long 87° 34' 33.91" W | Local Grid Location (If applicable) <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W | |
| Facility Id. | County MANITOWOC | County Code 36 | Civil Town/City/or Village Two Rivers | |

| SAMPLE | | | | SOIL PROPERTIES | | | | | | | | | | |
|-----------------|------------------------------|-------------|--------------------------------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|--------------|
| 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 | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P-200 | ROD/Comments |
| | | | -1 | Lawn Grass | | | | | | | | | | |
| | | | -2 | FILL, sand, some sm gravel, some roots, m | FILL | | | 0.3 | | M | | | | |
| | | | -3 | fine grained, poorly graded, no odor, brown | | | | | | | | | | |
| | | | -4 | | | | | | | | | | | |
| | | | -5 | PEAT, wood, moist, organic odor, dk brown | PT | | | 0.9 | | M | | | | |
| | | | -6 | CLAY, silty, trace sand, wet, low to medium | CL | | | 0.9 | | W | | | | |
| | | | -7 | no odor, brown | | | | | | | | | | |
| | | | -8 | Occasional silty sand laminations | | | | | | | | | | |
| | | | -9 | throughout clay | | | | | | | | | | |
| | | | -10 | | | | | | | | | | | |
| | | | -11 | | | | | | | | | | | |
| | | | -12 | | | | | | | | | | | |
| | | | -13 | | | | | | | | | | | |
| | | | -14 | | | | | | | | | | | |
| | | | -15 | | | | | | | | | | | |
| | | | -16 | SAND, silty to sandy silt, trace clay, wet, very | SM | | | 0.5 | | W | | | | |
| | | | -17 | grained sand, no odor, brown | | | | | | | | | | |
| | | | -18 | | | | | | | | | | | |
| | | | -19 | | | | | | | | | | | |
| | | | -20 | | | | | | | | | | | |
| | | | -21 | | | | | | | | | | | |
| | | | -22 | | | | | | | | | | | |
| | | | -23 | CLAY, trace sand, wet, low plasticity, no odor | CL | | | 0.5 | | W | | | | |
| | | | -24 | gray-light brown | | | | | | | | | | |
| | | | -25 | SILT, some fine grained sand, non-plastic, | ML | | | | | W | | | | |
| | | | | wet, no odor, gray/brown | | | | | | | | | | |

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature *Evan Gooss* Firm **AYRES ASSOCIATES**

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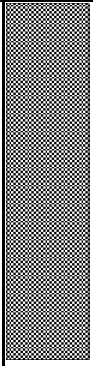
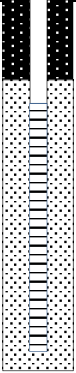
SOIL BORING LOG INFORMATION (CONTINUED)

Form 4400-122

7-91

APZ-2 cont.

Page 2 of 2

| SAMPLE | | BLOW COUNT | DEPTH IN FEET | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | FIELD OBSERVATIONS | | | SOIL PROPERTIES | | | | | RDQ/ comment | | | | |
|--------|-----------------------|------------|---------------|---|--------------------|---|--|----------------------|----------------------|------------------|--------------|---------------|--------------|-------|--|--|--|
| NUMBER | LENGTH RECOVERED (IN) | | | | USCS | GRAPHIC LOG | WELL DIAGRAM | FID (field) | STANDARD PENETRATION | MOISTURE CONTENT | LIQUID LIMIT | PLASTIC LIMIT | | P-200 | | | |
| | | | -26 | SAND, silty, trace to some clay, wet, very fine grained, slight hydrocarbon odor, brown | SM |  |  | | | | | | | | | | |
| | | | -27 | | | | | | | | | | | | | | |
| | | | -28 | | | | | | | | | | | | | | |
| | | | -29 | | | | | | | | | | | | | | |
| | | | -30 | | | | | | | | | | | | | | |
| | | | -31 | | | | | | | | | | | | | | |
| | | | -32 | | | | | | | | | | | | | | |
| | | | -33 | | | | | | | | | | | | | | |
| | | | -34 | | | | | EOB @ 33.2 feet bgs | | | | | | | | | |
| | | | -35 | | | | | Well set @ 32.7 feet | | | | | | | | | |
| | | | -36 | | | | | | | | | | | | | | |
| | | | -37 | | | | | | | | | | | | | | |
| | | | -38 | | | | | | | | | | | | | | |
| | | | -39 | | | | | | | | | | | | | | |
| | | | -40 | | | | | | | | | | | | | | |
| | | | -41 | | | | | | | | | | | | | | |
| | | | -42 | | | | | | | | | | | | | | |
| | | | -43 | | | | | | | | | | | | | | |
| | | | -44 | | | | | | | | | | | | | | |
| | | | -45 | | | | | | | | | | | | | | |
| | | | -46 | | | | | | | | | | | | | | |
| | | | -47 | | | | | | | | | | | | | | |
| | | | -48 | | | | | | | | | | | | | | |
| | | | -49 | | | | | | | | | | | | | | |
| | | | -50 | | | | | | | | | | | | | | |
| | | | -51 | | | | | | | | | | | | | | |
| | | | -52 | | | | | | | | | | | | | | |
| | | | -53 | | | | | | | | | | | | | | |
| | | | -54 | | | | | | | | | | | | | | |
| | | | -55 | | | | | | | | | | | | | | |
| | | | -56 | | | | | | | | | | | | | | |
| | | | -57 | | | | | | | | | | | | | | |
| | | | -58 | | | | | | | | | | | | | | |
| | | | -59 | | | | | | | | | | | | | | |

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

Signature *Erin Gross* Firm **AYRES ASSOCIATES**

This form is authorized by Chapters 144.147 and 162, Wis.Stats. Completion of this report is mandatory. Penalties: Forfeit not less than \$10 or nor more than \$5,000 for each violation. Fined not less than \$10 or more than \$100 or imprisoned not less than 30 days, or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.


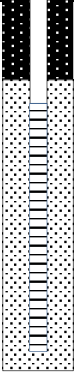
SOIL BORING LOG INFORMATION (CONTINUED)

Form 4400-122

7-91

APZ-4 cont.

Page 2 of 2

| SAMPLE | | BLOW COUNT | DEPTH IN FEET | SOIL/ROCK DESCRIPTION AND GEOLOGIC ORIGIN FOR EACH MAJOR UNIT | FIELD OBSERVATIONS | | | | SOIL PROPERTIES | | | | | RDQ/ comment |
|--------|-----------------------|------------|---------------|---|--------------------|---|--|-------------|----------------------|------------------|--------------|---------------|-------|--------------|
| NUMBER | LENGTH RECOVERED (IN) | | | | USCS | GRAPHIC LOG | WELL DIAGRAM | FID (field) | STANDARD PENETRATION | MOISTURE CONTENT | LIQUID LIMIT | PLASTIC LIMIT | P-200 | |
| | | | -26 | CLAY, wet, low plasticity, no odor, gray/pink | CL |  |  | | | | | | | |
| | | | -27 | | | | | | | | | | | |
| | | | -28 | | | | | | | | | | | |
| | | | -29 | | | | | | | | | | | |
| | | | -30 | | | | | | | | | | | |
| | | | -31 | | | | | | | | | | | |
| | | | -32 | | | | | | | | | | | |
| | | | -33 | | | | | | | | | | | |
| | | | -34 | EOB @ 33.2 feet bgs Well set @ 32.7 feet | | | | | | | | | | |
| | | | -35 | | | | | | | | | | | |
| | | | -36 | | | | | | | | | | | |
| | | | -37 | | | | | | | | | | | |
| | | | -38 | | | | | | | | | | | |
| | | | -39 | | | | | | | | | | | |
| | | | -40 | | | | | | | | | | | |
| | | | -41 | | | | | | | | | | | |
| | | | -42 | | | | | | | | | | | |
| | | | -43 | | | | | | | | | | | |
| | | | -44 | | | | | | | | | | | |
| | | | -45 | | | | | | | | | | | |
| | | | -46 | | | | | | | | | | | |
| | | | -47 | | | | | | | | | | | |
| | | | -48 | | | | | | | | | | | |
| | | | -49 | | | | | | | | | | | |
| | | | -50 | | | | | | | | | | | |
| | | | -51 | | | | | | | | | | | |
| | | | -52 | | | | | | | | | | | |
| | | | -53 | | | | | | | | | | | |
| | | | -54 | | | | | | | | | | | |
| | | | -55 | | | | | | | | | | | |
| | | | -56 | | | | | | | | | | | |
| | | | -57 | | | | | | | | | | | |
| | | | -58 | | | | | | | | | | | |
| | | | -59 | | | | | | | | | | | |

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

Signature *Erin Gross* Firm **AYRES ASSOCIATES**

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Appendix B
Hydraulic Conductivity Test Results

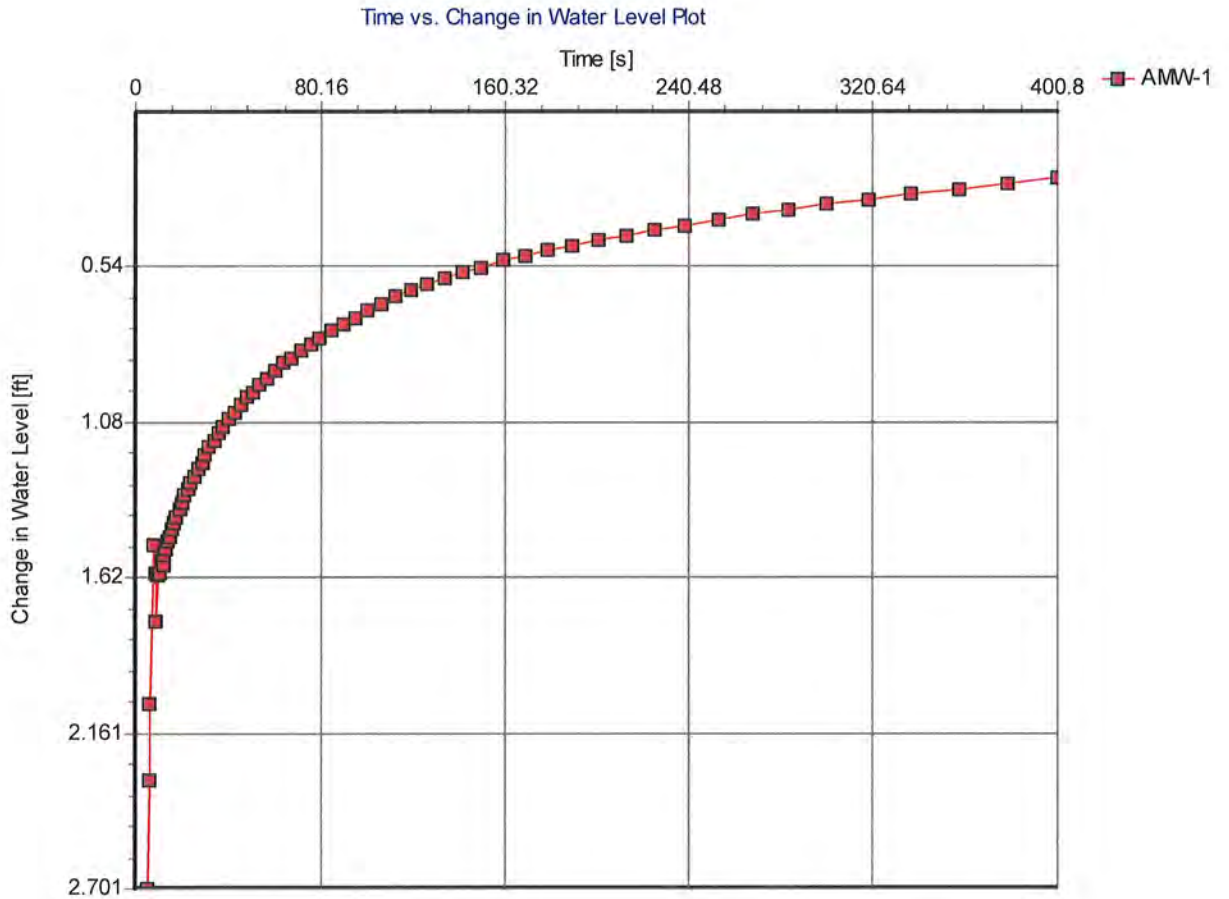


Ayres Associates Inc
5201 E. Terrace Drive, Suite 200
Madison, Wisconsin 53718
Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-1 Slug In | Test well: AMW-1 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/21/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 11 [ft] | |



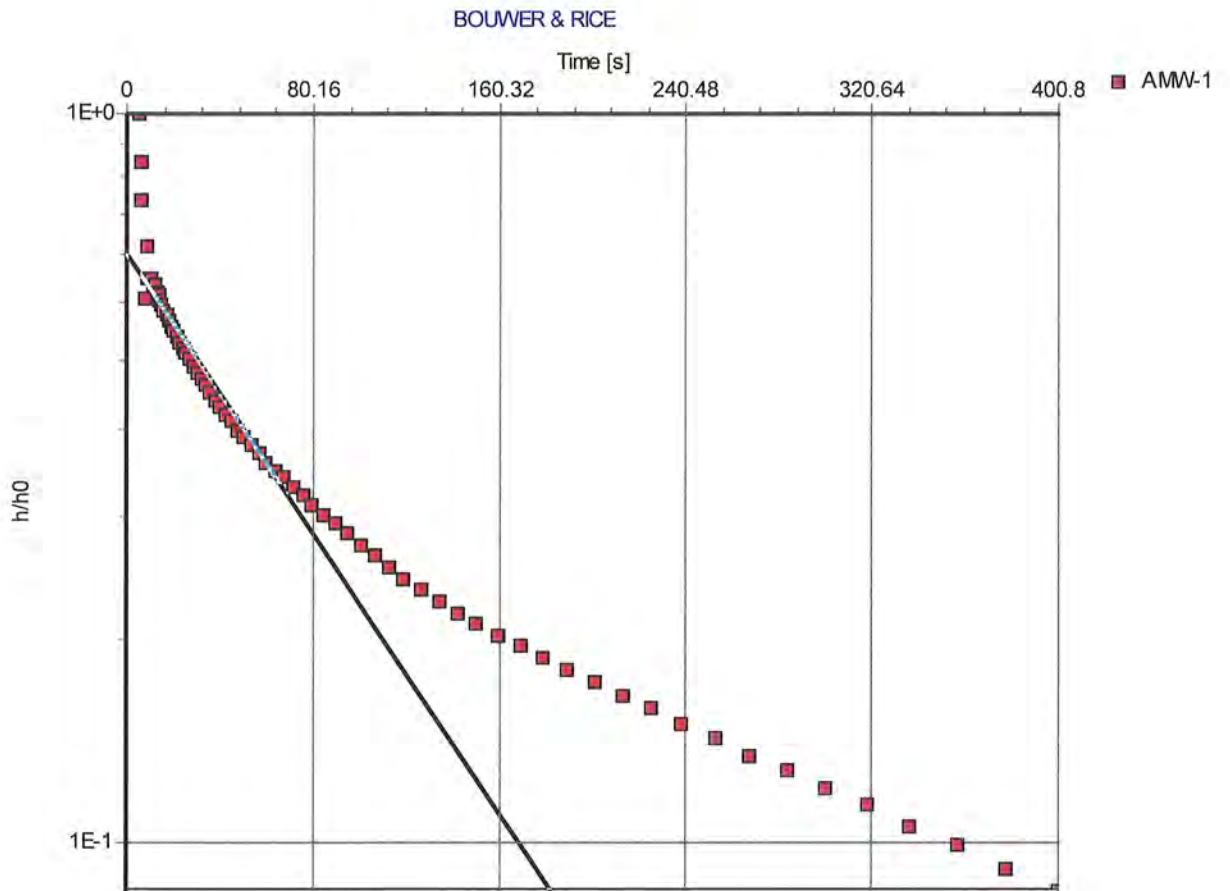


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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---------------------------------|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-1 Slug In | Test well: AMW-1 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/21/2015 | |
| Analysis method: BOUWER & RICE | Aquifer thickness: 11 [ft] | |



Conductivity: 1.07×10^{-5} [ft/s]

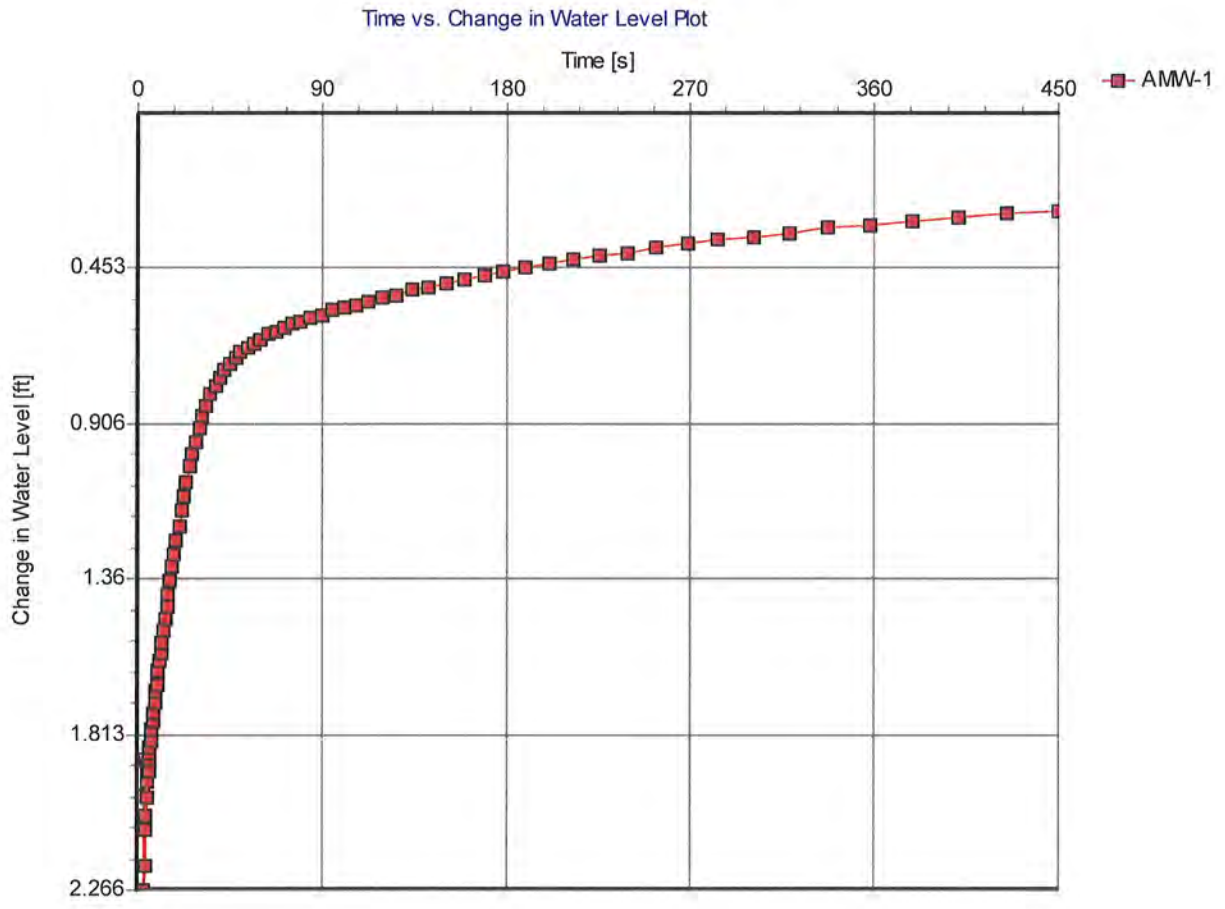


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Madison, Wisconsin 53718
Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-1 Slug Out | Test well: AMW-1 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 11 [ft] | |



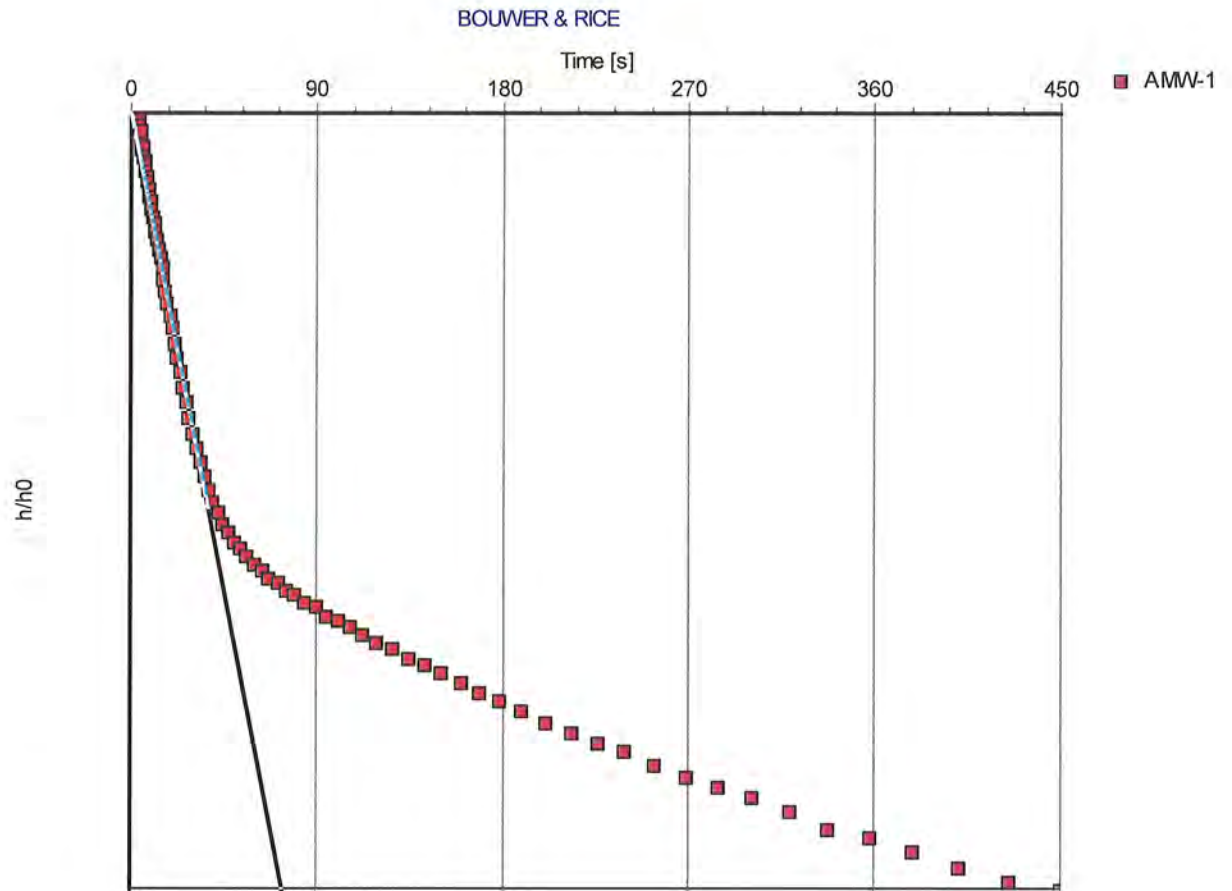


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Madison, Wisconsin 53718
Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---------------------------------|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-1 Slug Out | Test well: AMW-1 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: BOUWER & RICE | Aquifer thickness: 11 [ft] | |



Conductivity: 2.60×10^{-5} [ft/s]

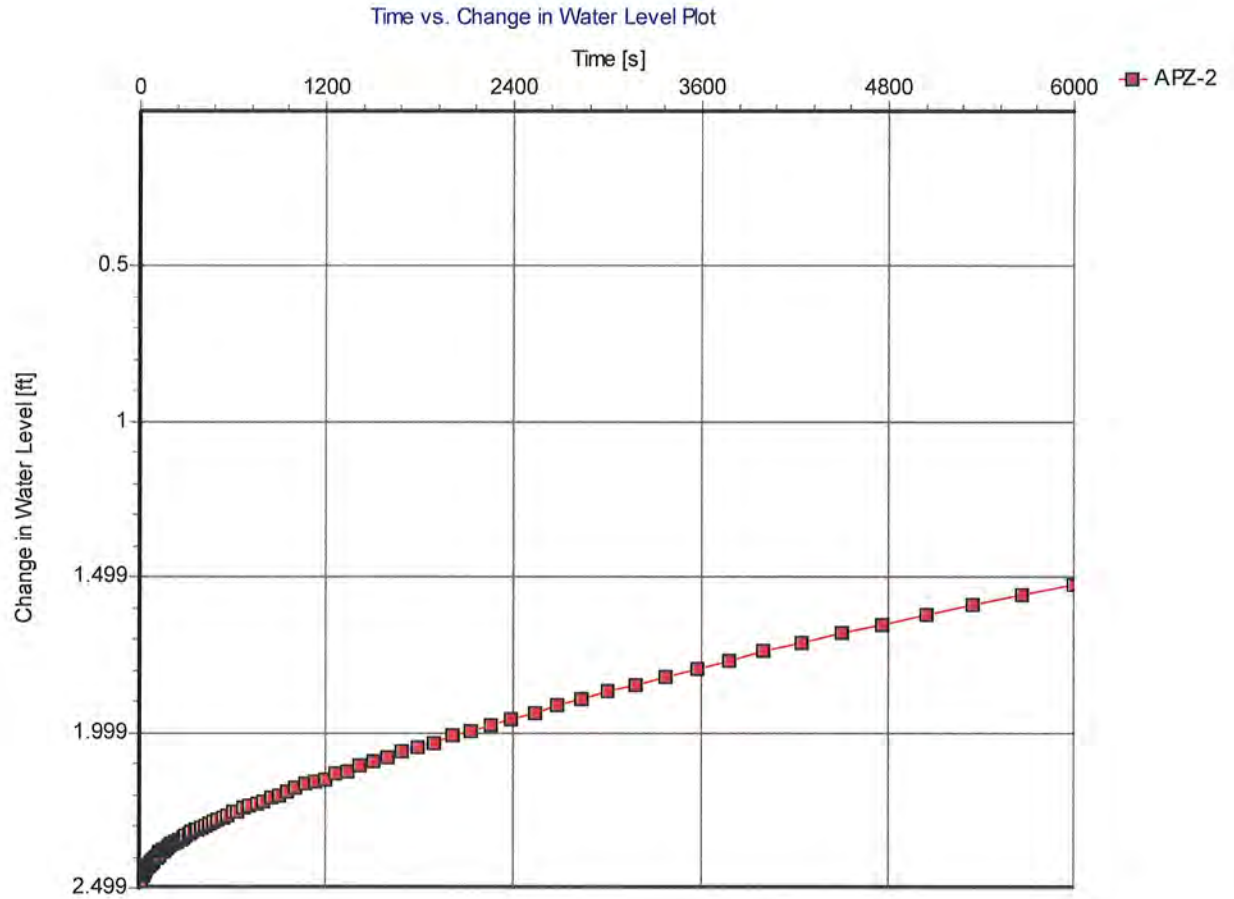


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Madison, Wisconsin 53718
Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: APZ-2 Slug Out | Test well: APZ-2 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 28 [ft] | |





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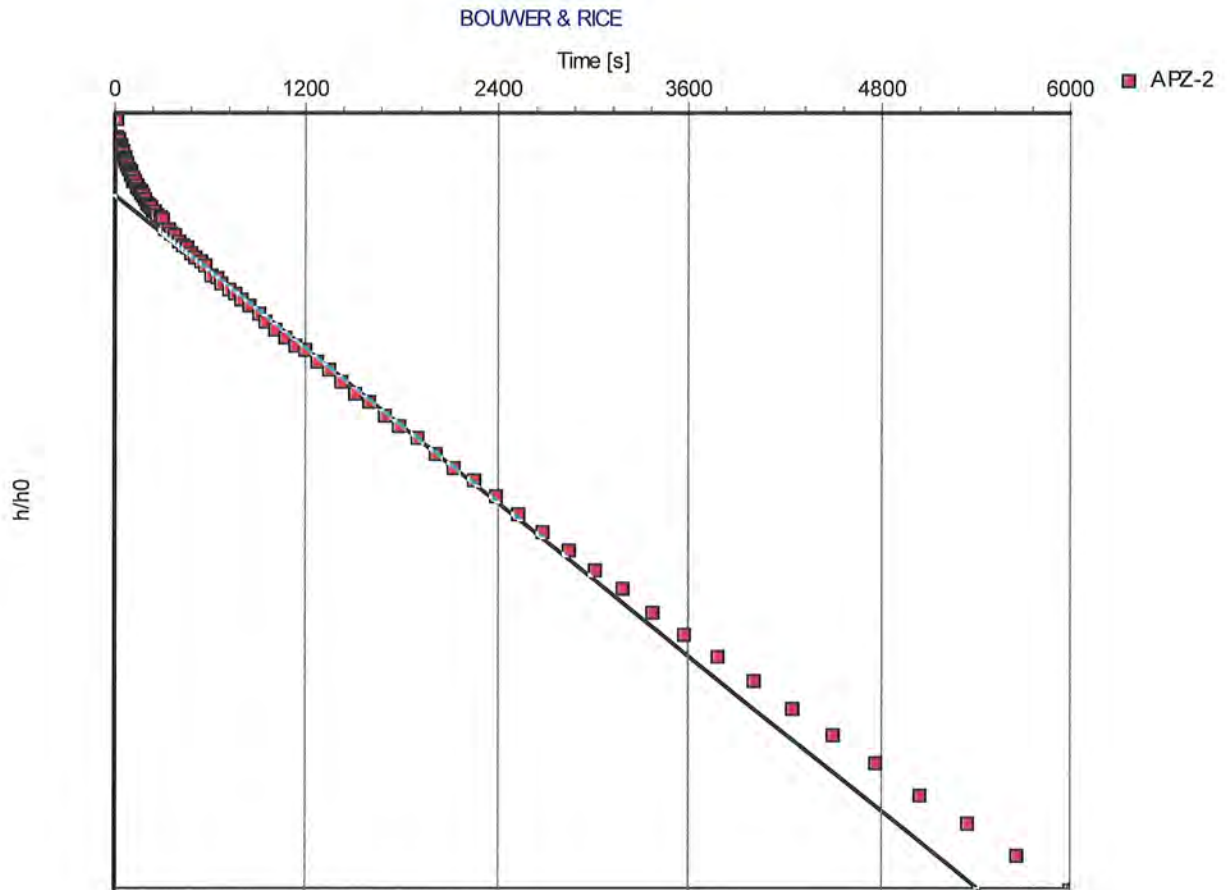
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: APZ-2 Slug Out Test well: APZ-2

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 28 [ft]



Conductivity: 1.78×10^{-7} [ft/s]

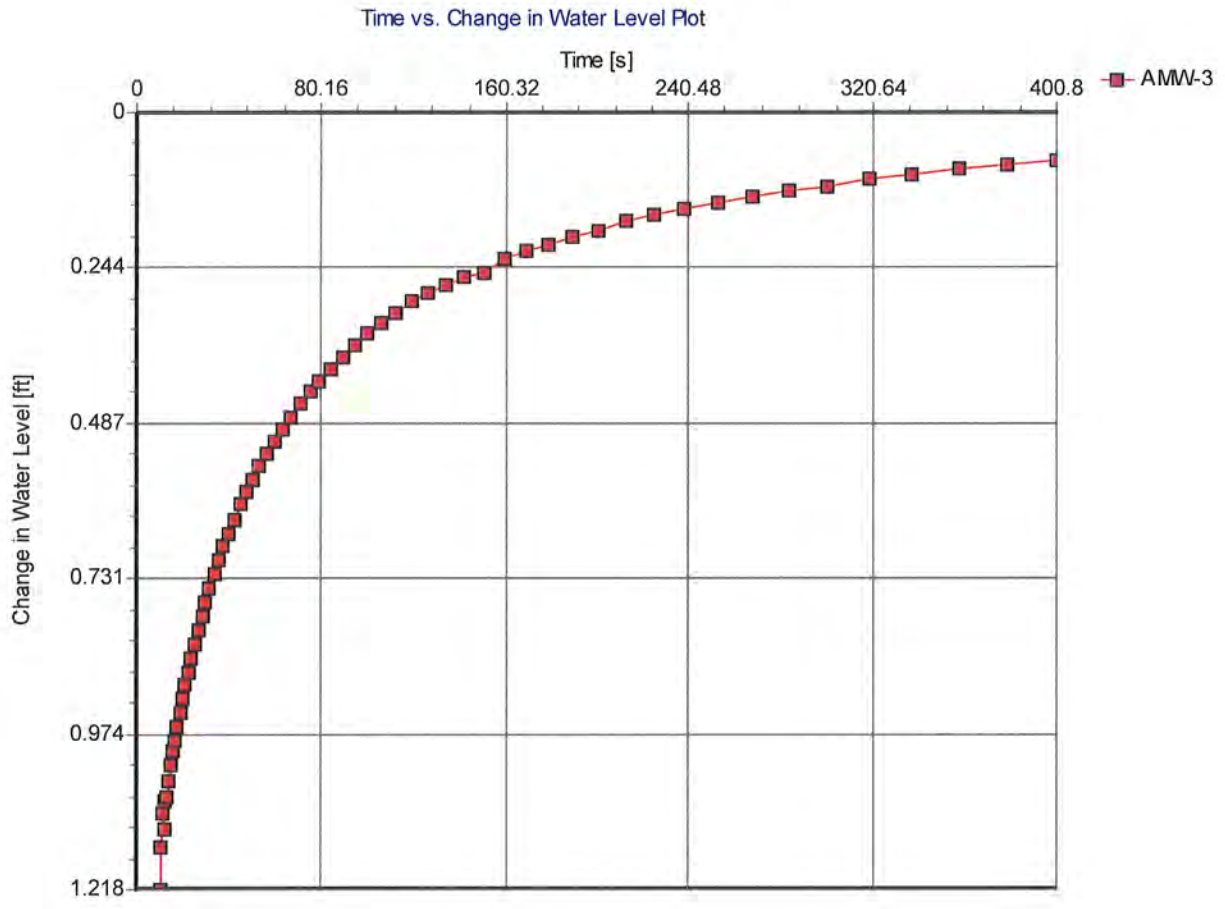


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Madison, Wisconsin 53718
Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-3 Slug In | Test well: AMW-3 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 12 [ft] | |





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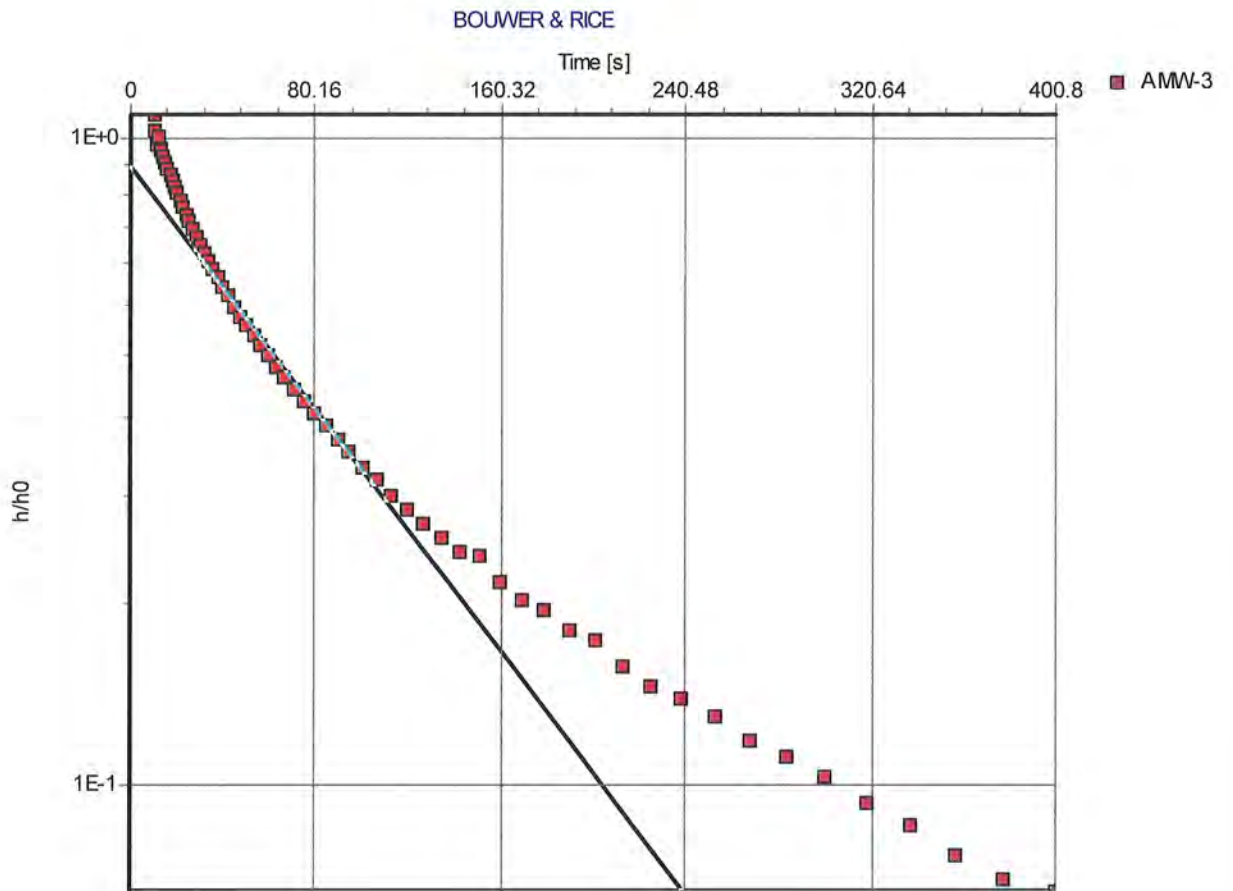
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-3 Slug In Test well: AMW-3

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 12 [ft]



Conductivity: 1.06×10^{-5} [ft/s]

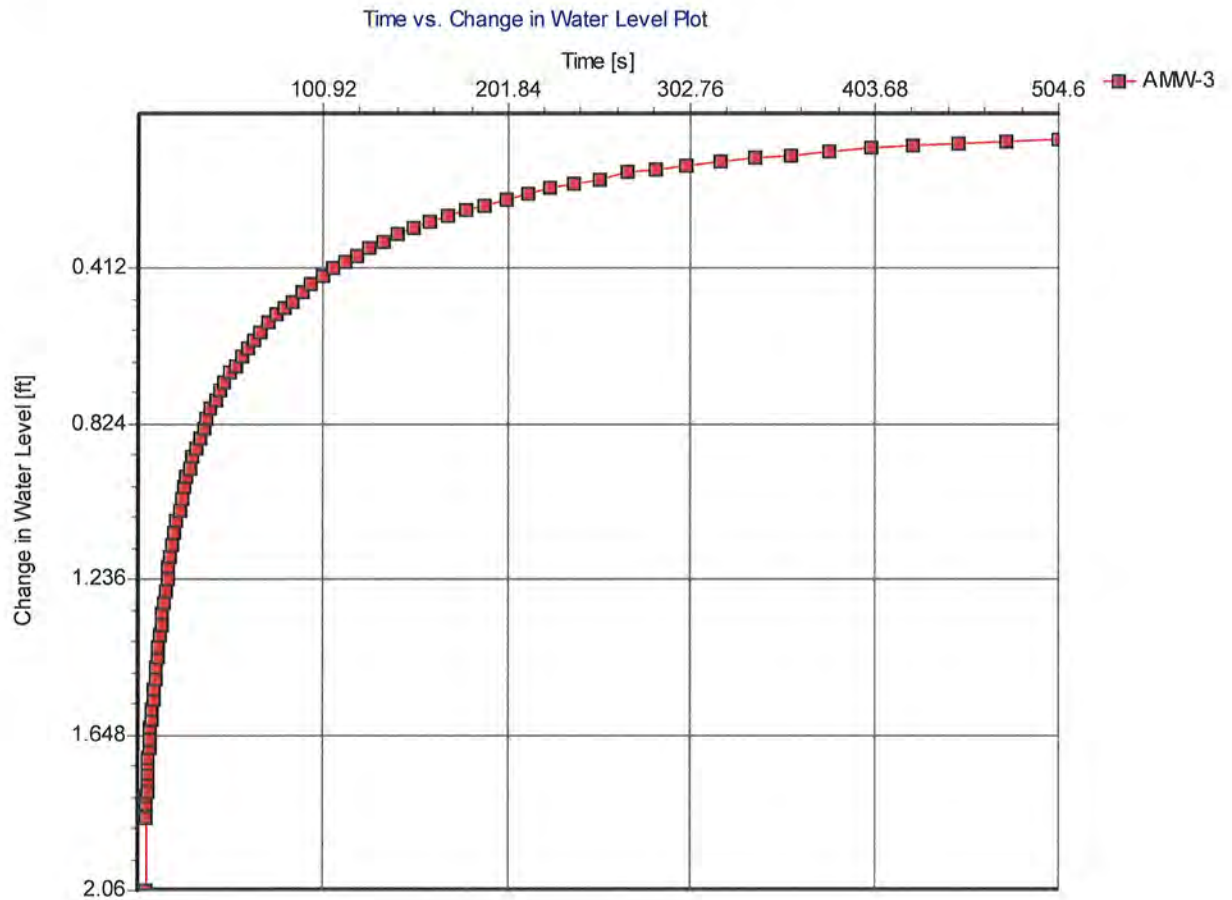


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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-3 Slug Out | Test well: AMW-3 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 12 [ft] | |





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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00

Project: 1910 20th Street & 2022 School Street

Client: Manitowoc County

Location: Two Rivers, Wisconsin

Slug test: AMW-3 Slug Out

Test well: AMW-3

Test performed by: Jeff Steiner

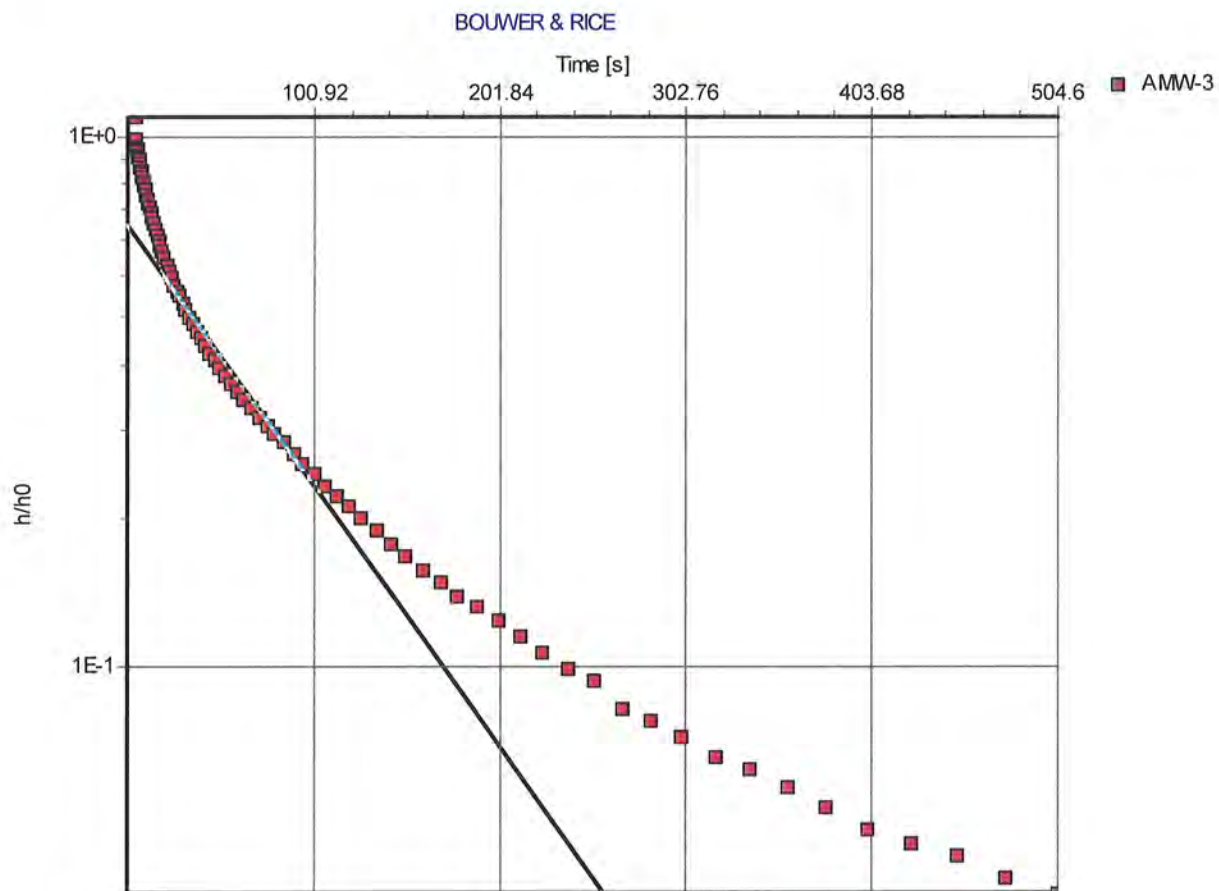
Evaluated by: Jeff Steiner

Test date: 4/15/2015

Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE

Aquifer thickness: 12 [ft]



Conductivity: 1.11×10^{-5} [ft/s]



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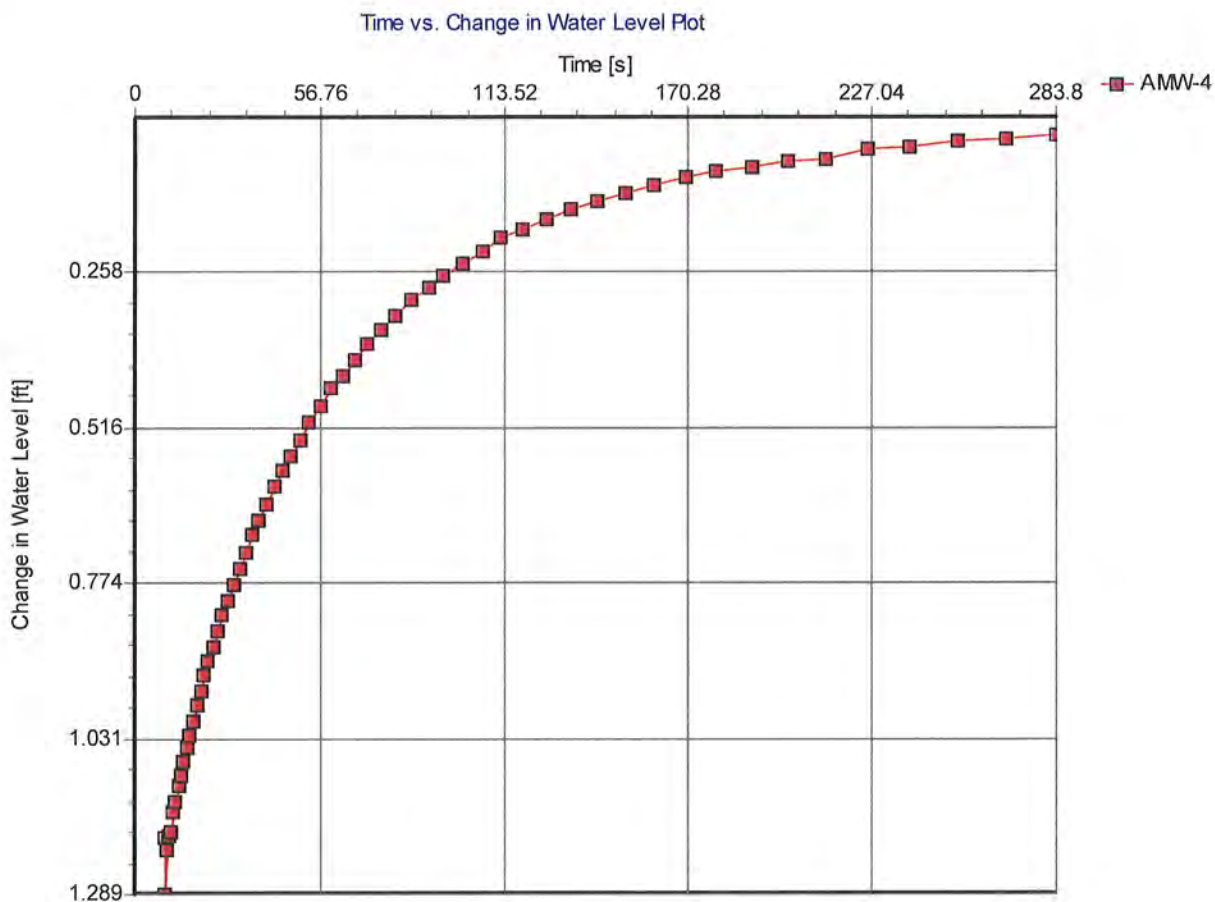
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-4 Slug In Test well: AMW-4

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: Time vs. Change in waterlevel plot Aquifer thickness: 13 [ft]





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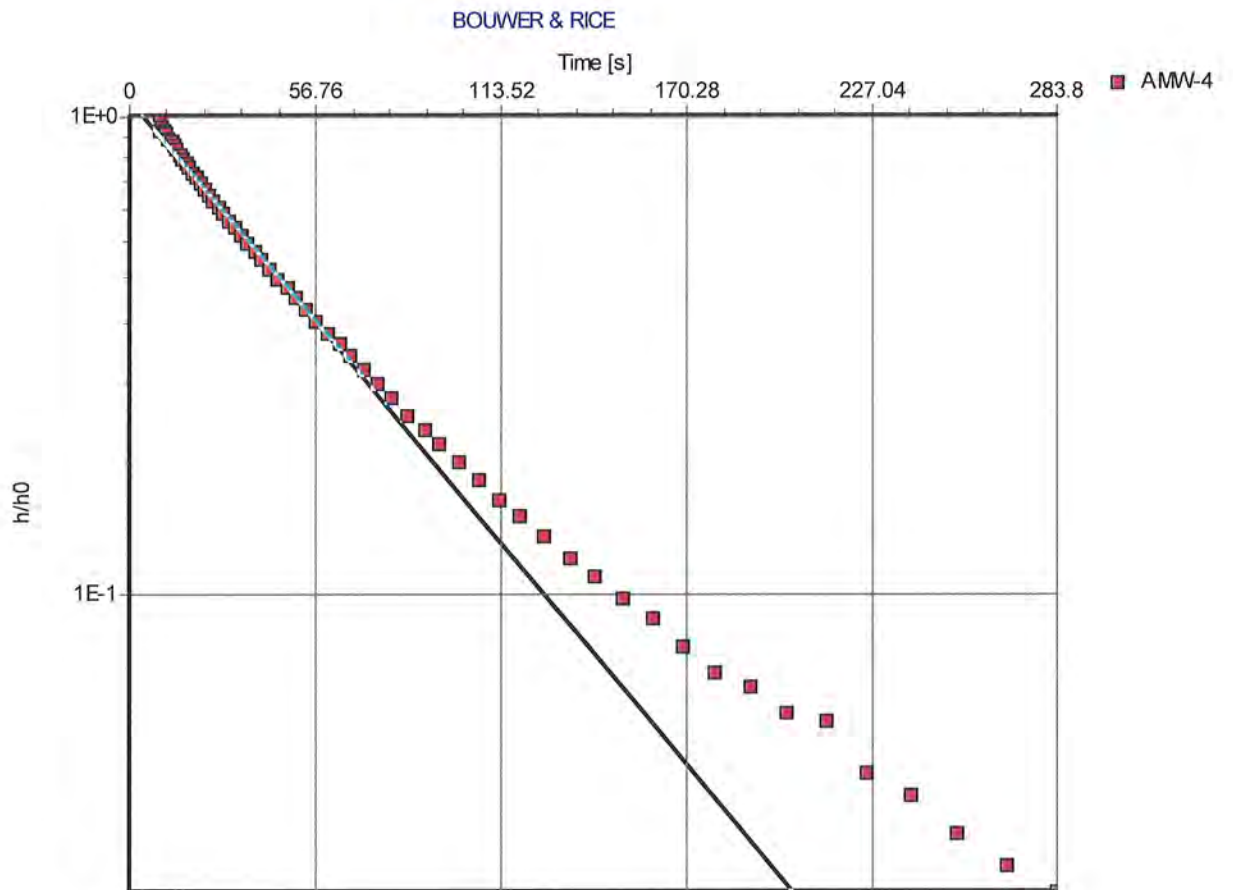
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-4 Slug In Test well: AMW-4

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 13 [ft]



Conductivity: 1.87×10^{-5} [ft/s]

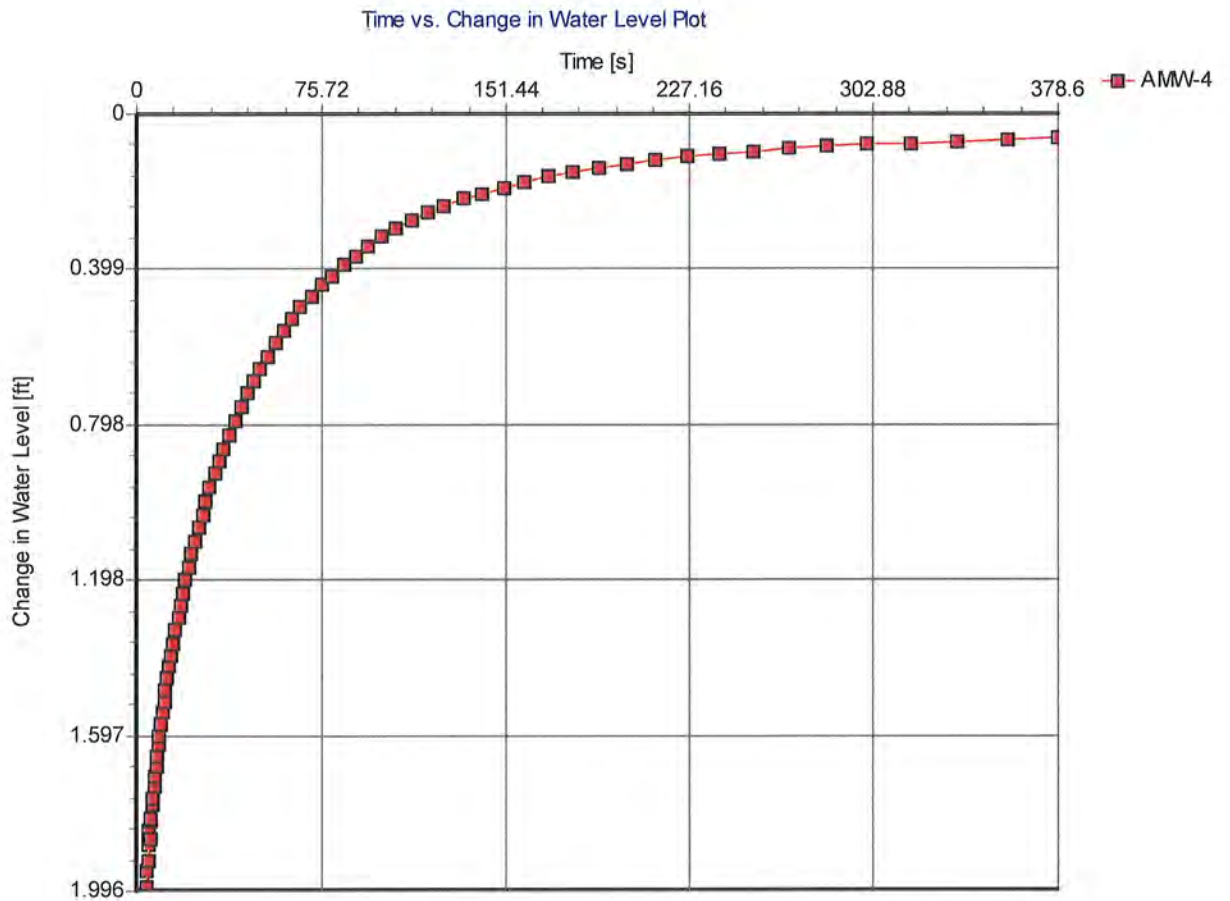


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Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-4 Slug Out | Test well: AMW-4 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/22/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 13 [ft] | |





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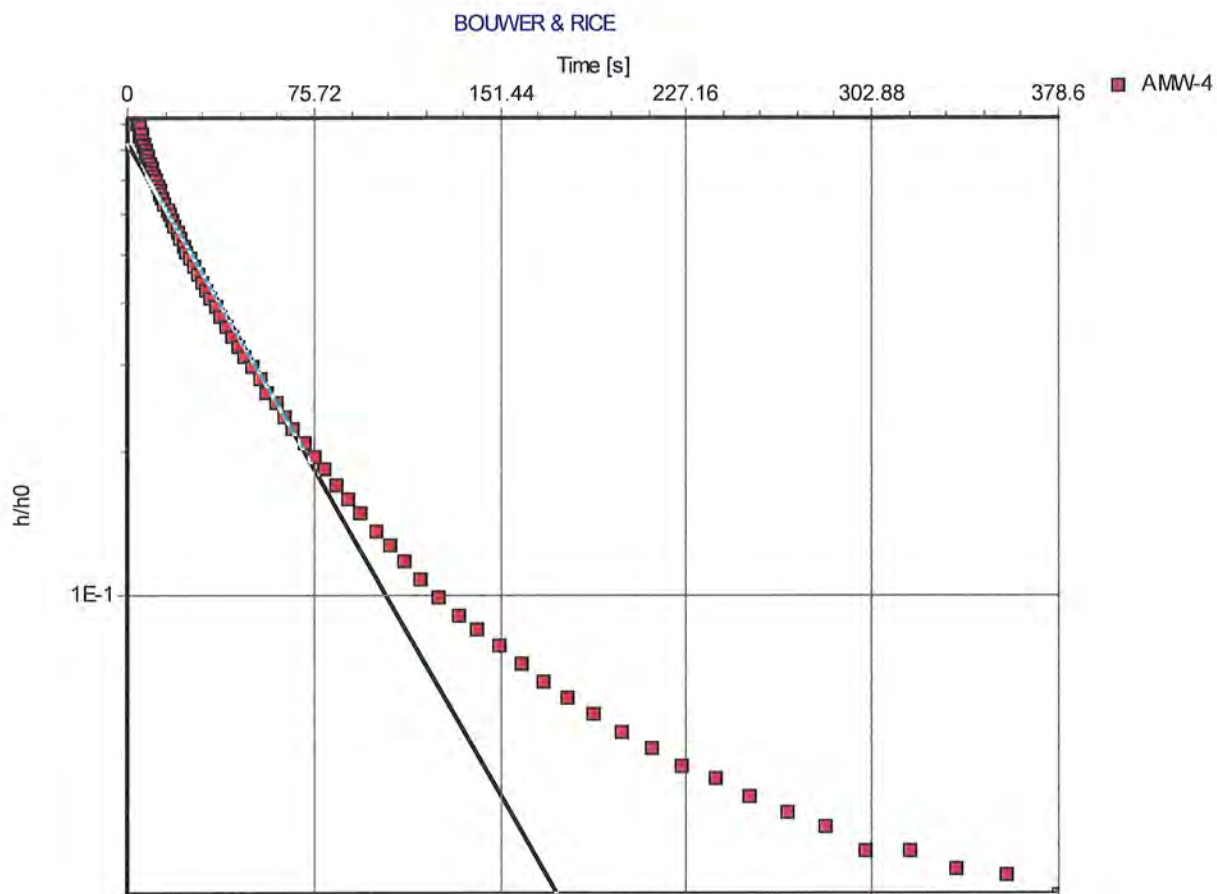
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-4 Slug Out Test well: AMW-4

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/22/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 13 [ft]



Conductivity: 1.92×10^{-5} [ft/s]

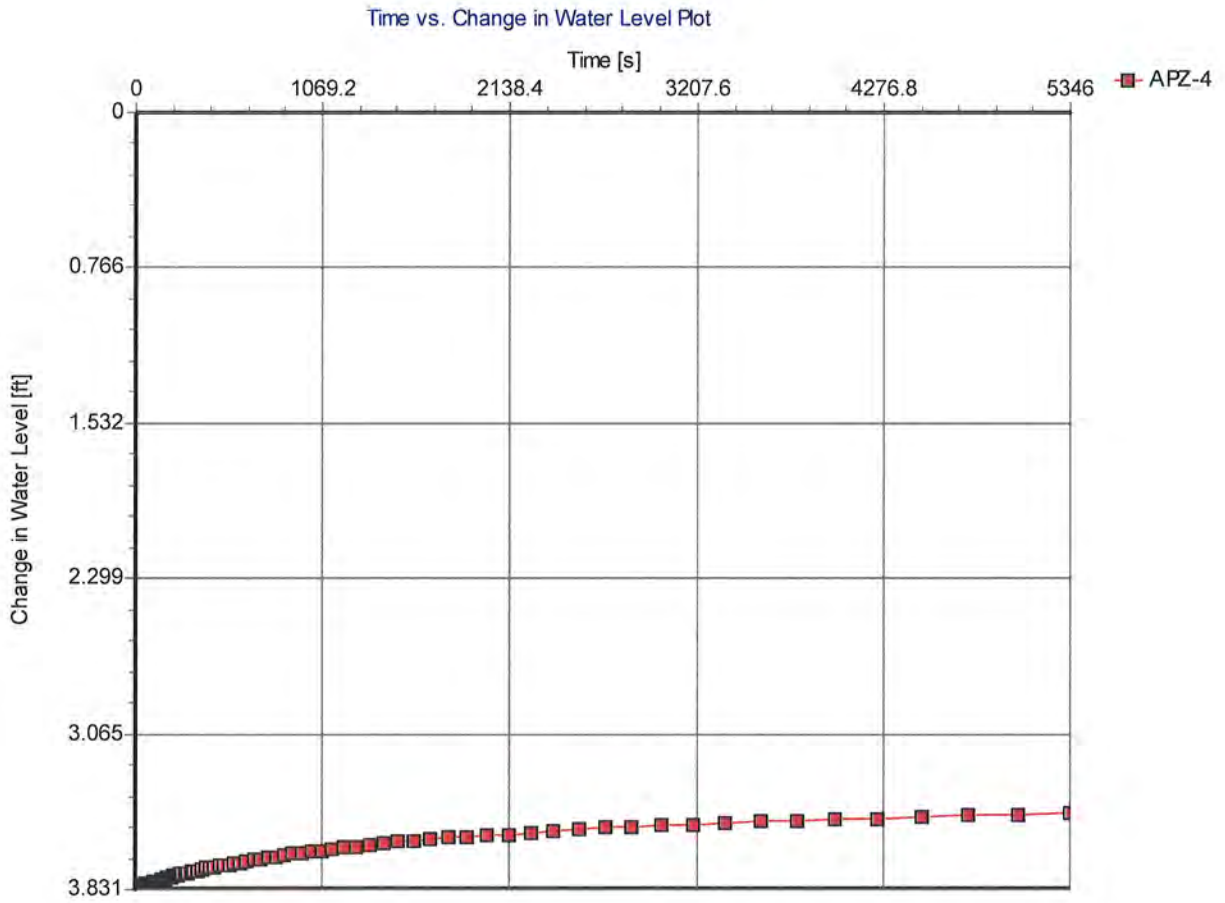


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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: APZ-4 Slug In | Test well: APZ-4 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 29 [ft] | |



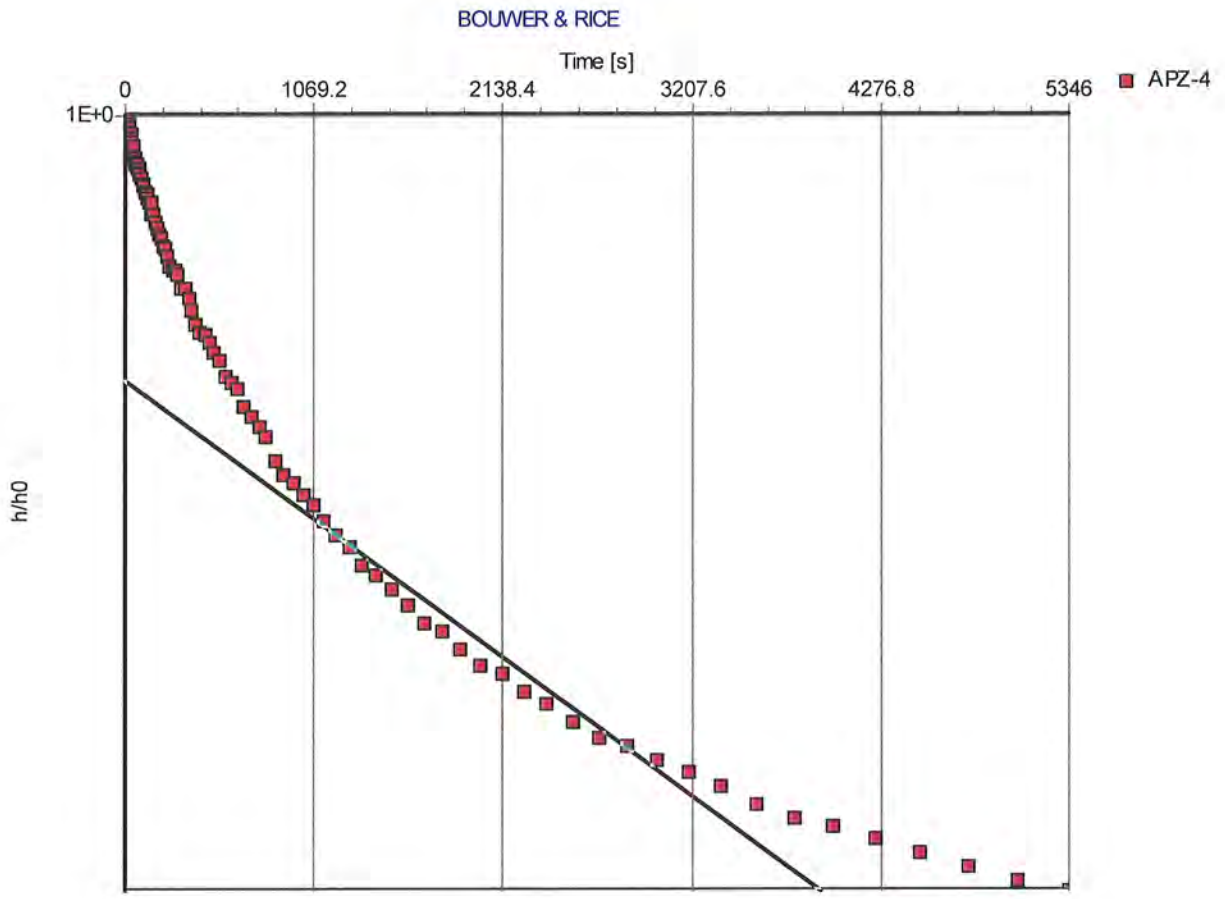


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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---------------------------------|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: APZ-4 Slug In | Test well: APZ-4 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: BOUWER & RICE | Aquifer thickness: 29 [ft] | |



Conductivity: 3.72×10^{-8} [ft/s]



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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin

Slug test: AMW-5 Slug In

Test well: AMW-5

Test performed by: Jeff Steiner

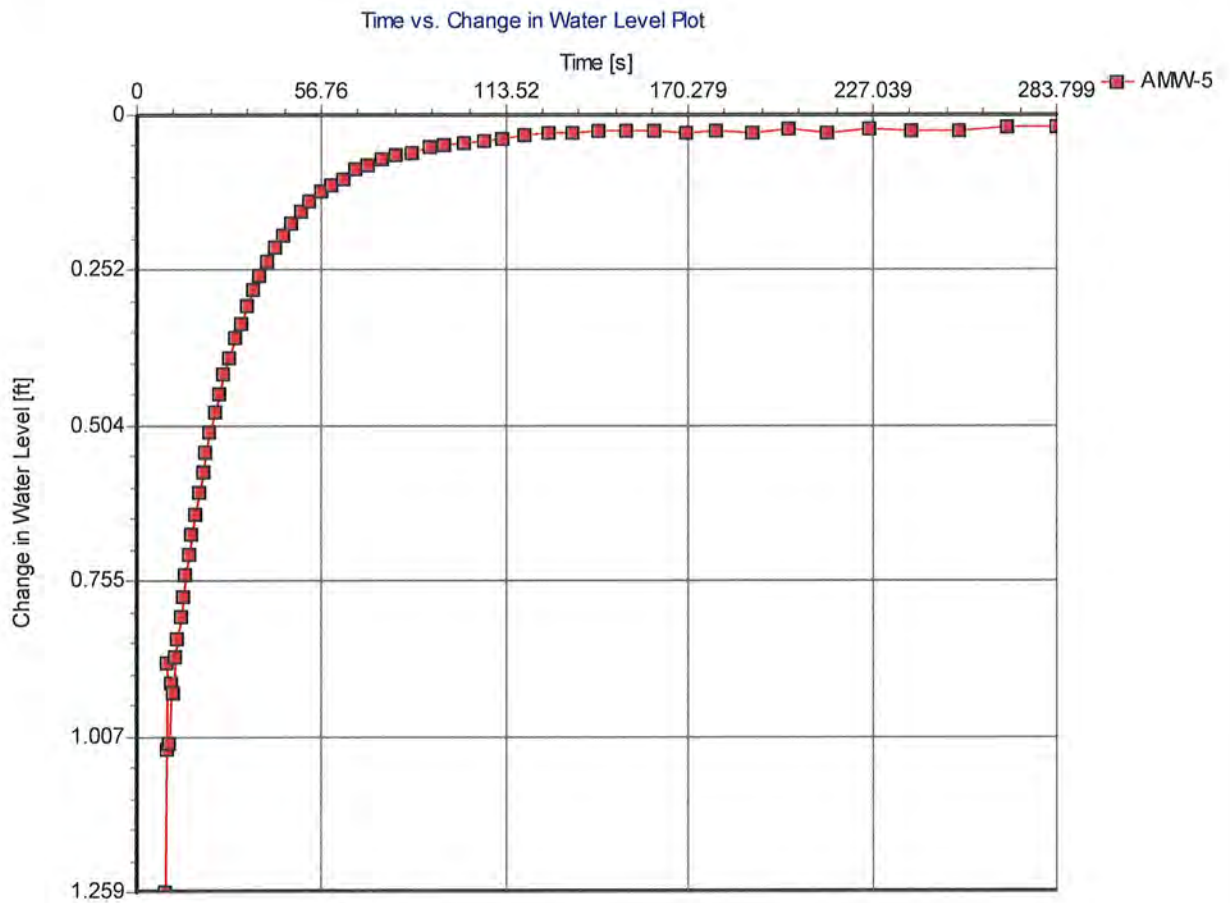
Evaluated by: Jeff Steiner

Test date: 4/15/2015

Evaluation date: 4/22/2015

Analysis method: Time vs. Change in waterlevel plot

Aquifer thickness: 13 [ft]





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Madison, Wisconsin 53718

Phone: 608-443-1200

Slug test analysis

No: 19-0558.00

Project: 1910 20th Street & 2022 School Street

Client: Manitowoc County

Location: Two Rivers, Wisconsin

Slug test: AMW-5 Slug In

Test well: AMW-5

Test performed by: Jeff Steiner

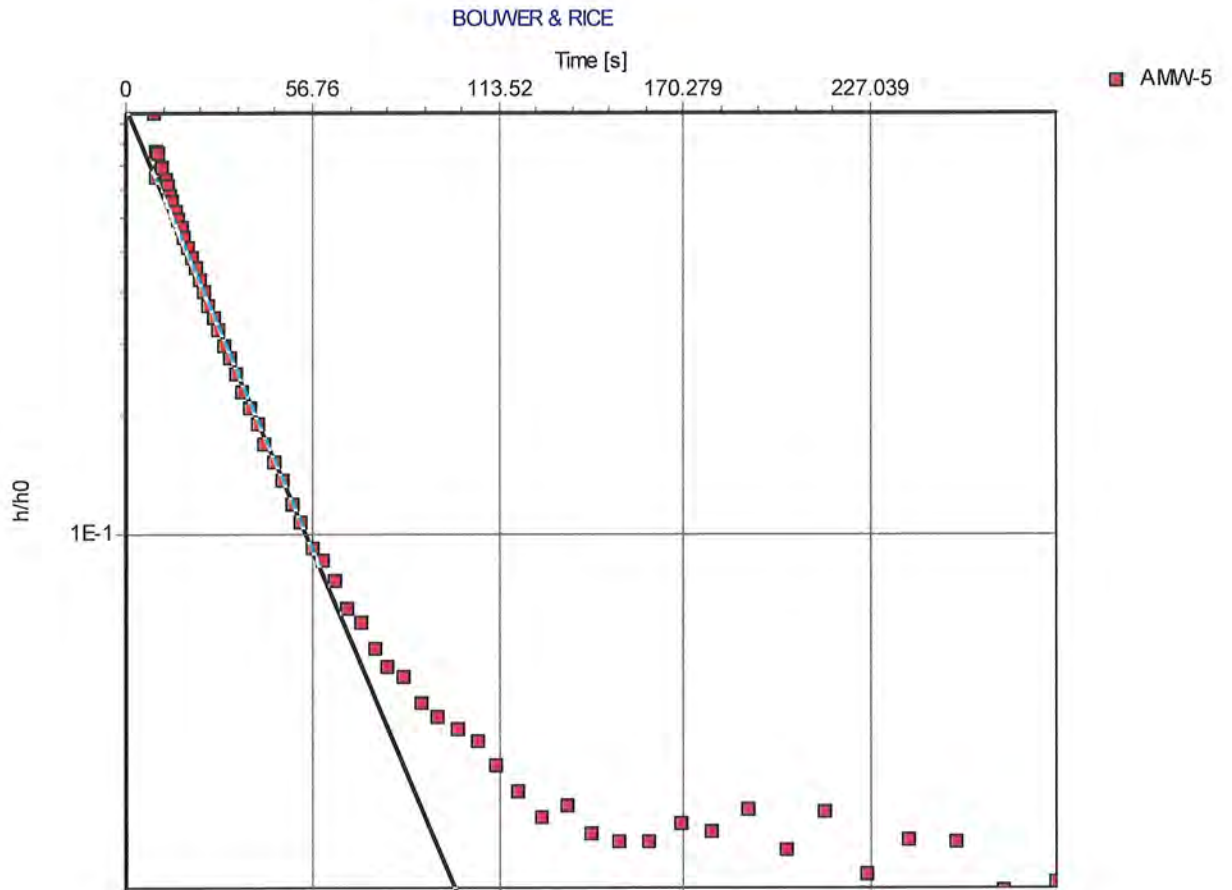
Evaluated by: Jeff Steiner

Test date: 4/15/2015

Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE

Aquifer thickness: 13 [ft]



Conductivity: 4.12×10^{-5} [ft/s]



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Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|--|
| Location: Two Rivers, Wisconsin | Slug test: AMW-5 Slug Out | Test well: AMW-5 |
| Test performed by: Jeff Steiner | Test date: 4/15/2015 | Evaluated by: Jeff Steiner Evaluation date: 4/22/2015 |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 13 [ft] | |



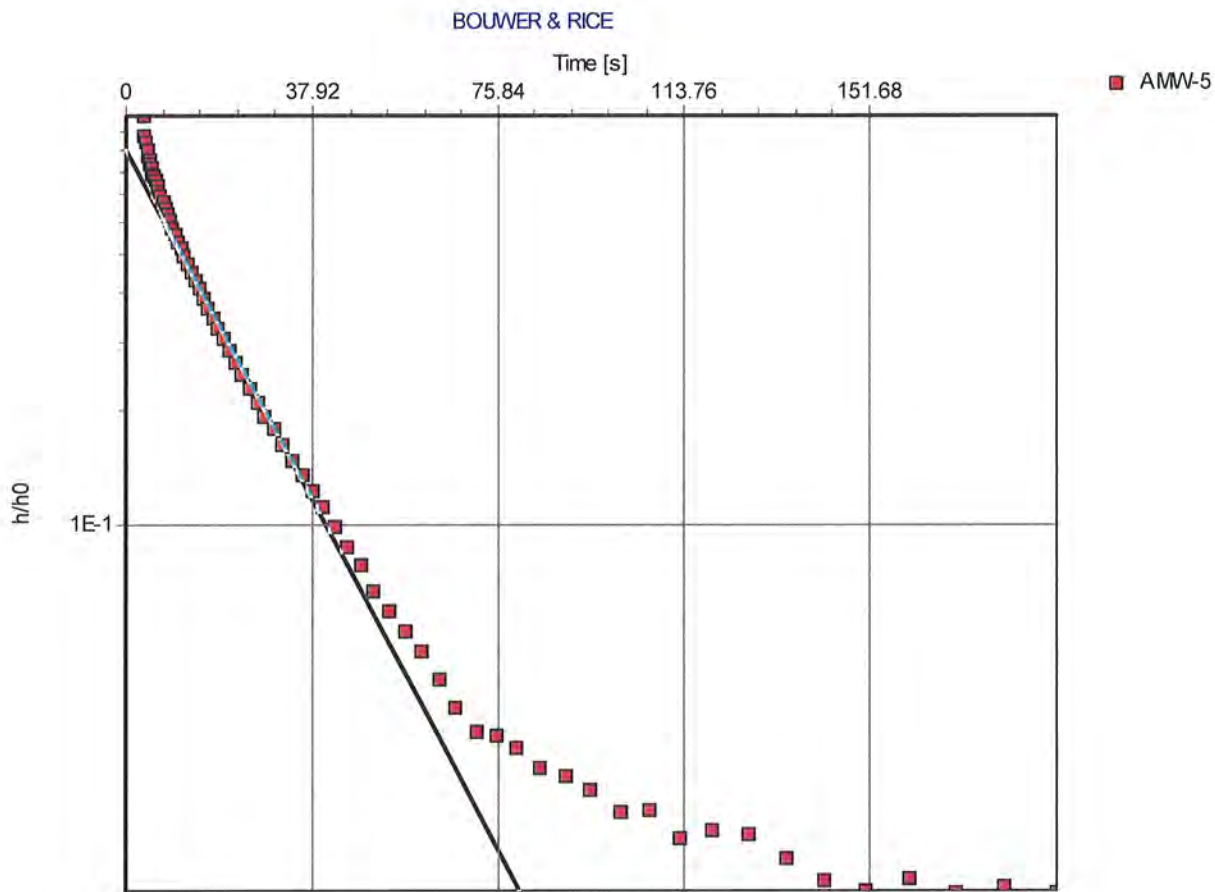


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Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---------------------------------|----------------------------|------------------|
| Location: Two Rivers, Wisconsin | Slug test: AMW-5 Slug Out | Test well: AMW-5 |
| Test performed by: Jeff Steiner | Evaluated by: Jeff Steiner | |
| Test date: 4/15/2015 | Evaluation date: 4/22/2015 | |
| Analysis method: BOUWER & RICE | Aquifer thickness: 13 [ft] | |



Conductivity: 5.13×10^{-5} [ft/s]

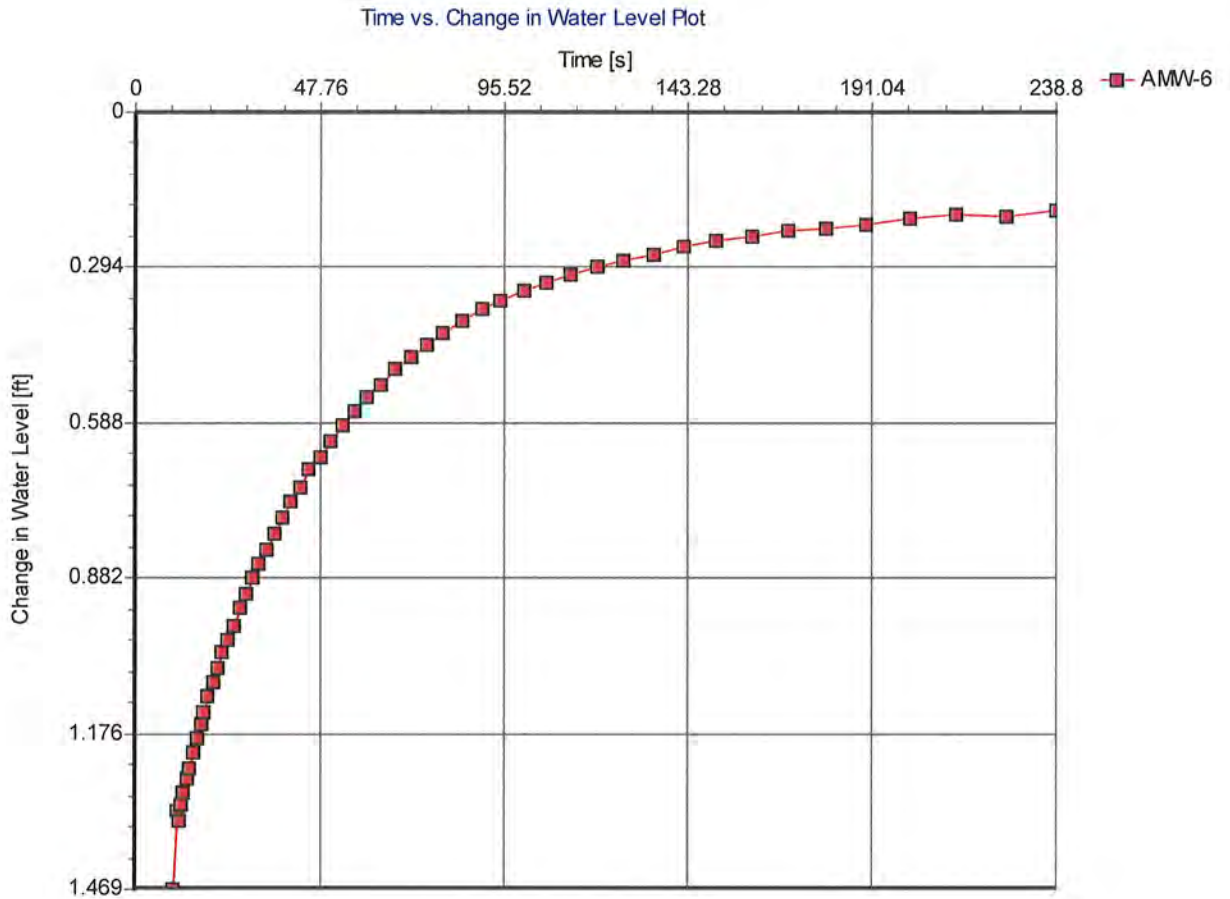


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Phone: 608-443-1200

Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

| | | |
|---|----------------------------|--|
| Location: Two Rivers, Wisconsin | Slug test: AMW-6 Slug In | Test well: AMW-6 |
| Test performed by: Jeff Steiner | Test date: 4/15/2015 | Evaluated by: Jeff Steiner Evaluation date: 4/22/2015 |
| Analysis method: Time vs. Change in waterlevel plot | Aquifer thickness: 12 [ft] | |





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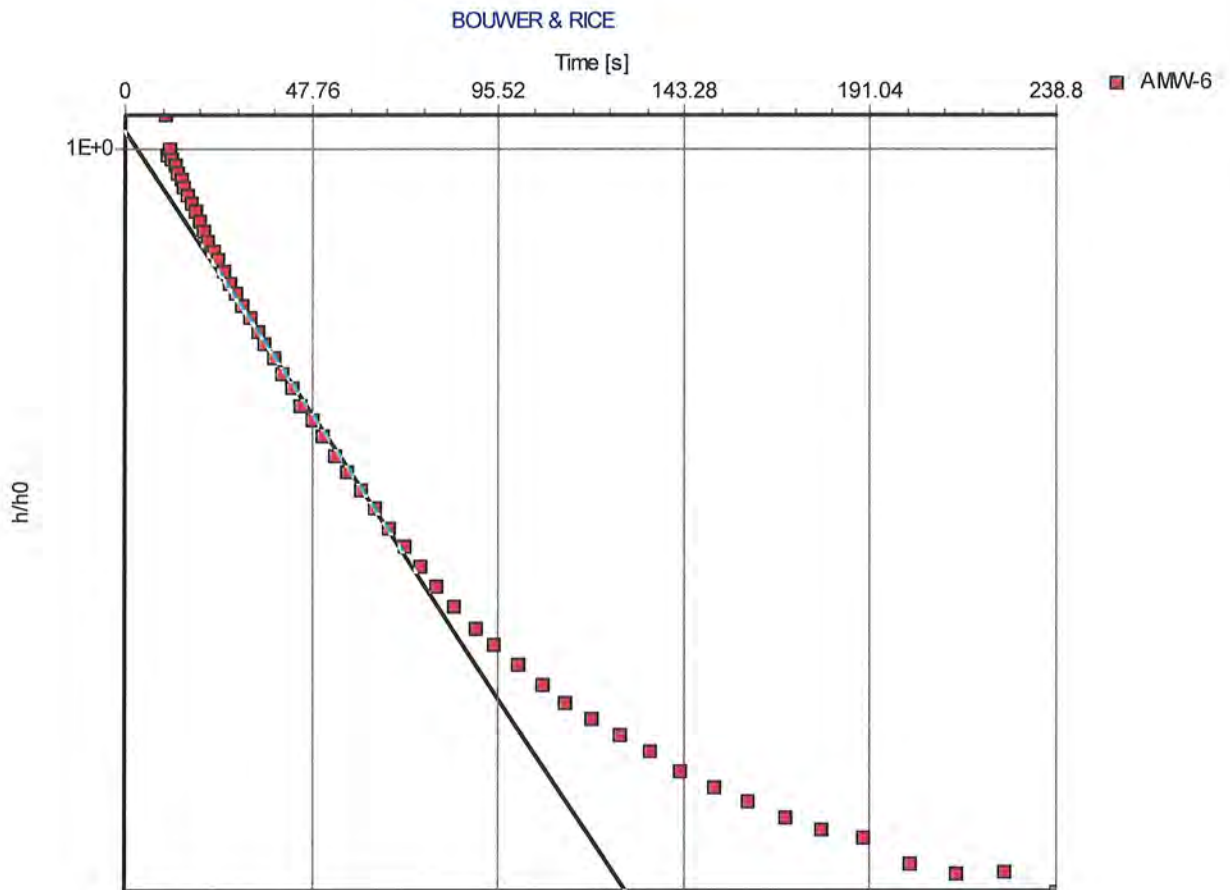
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-6 Slug In Test well: AMW-6

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 12 [ft]



Conductivity: 1.56×10^{-5} [ft/s]



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Phone: 608-443-1200

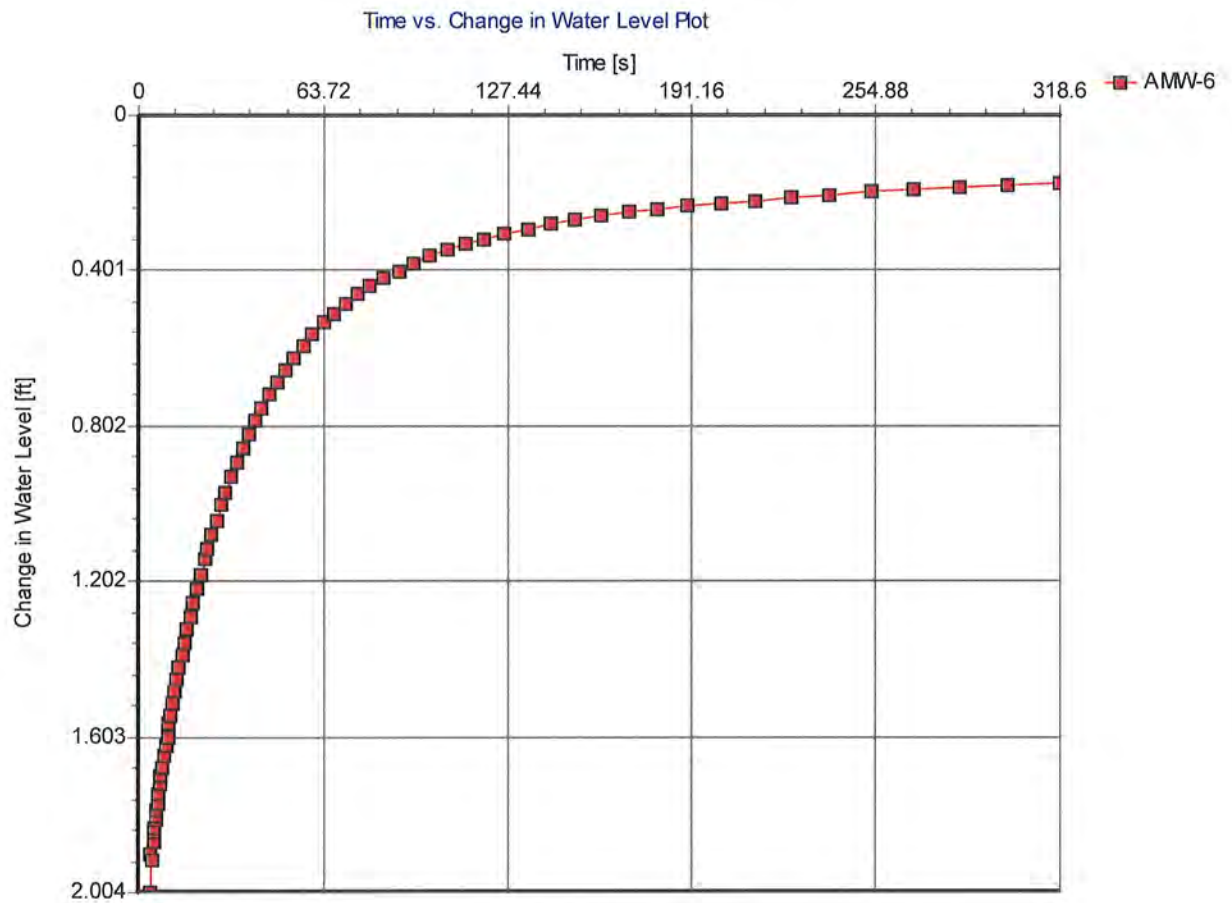
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-6 Slug Out Test well: AMW-6

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: Time vs. Change in waterlevel plot Aquifer thickness: 12 [ft]





Ayres Associates Inc
5201 E. Terrace Drive, Suite 200
Madison, Wisconsin 53718
Phone: 608-443-1200

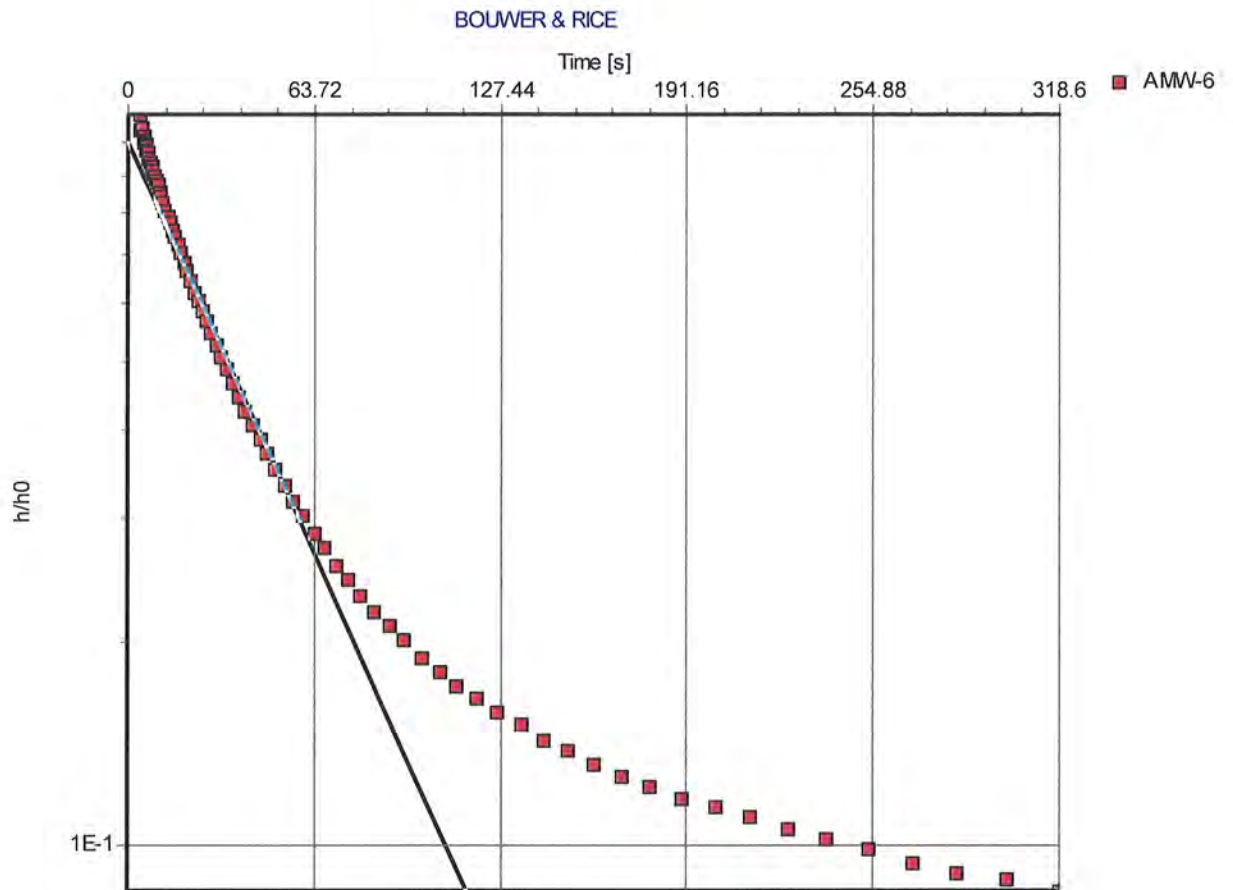
Slug test analysis

No: 19-0558.00
Project: 1910 20th Street & 2022 School Street
Client: Manitowoc County

Location: Two Rivers, Wisconsin Slug test: AMW-6 Slug Out Test well: AMW-6

Test performed by: Jeff Steiner Evaluated by: Jeff Steiner
Test date: 4/15/2015 Evaluation date: 4/22/2015

Analysis method: BOUWER & RICE Aquifer thickness: 12 [ft]



Conductivity: 2.00×10^{-5} [ft/s]

Summary of Slug Test Parameters
 1910 20th Street & 2022 School Street
 Two Rivers, Wisconsin

| Well Number | Test Number | Depth of Well (ft) | Depth to Water (ft) | Initial Observed Drawdown (to) (ft) | Internal Well Radius (r) (ft) | Effective Well Radius (R) (ft) | Sat. Aquifer Thickness (ft) | Screen Length (L) (ft) | Height of Water Column (b) (ft) |
|-------------|-------------|--------------------|---------------------|-------------------------------------|-------------------------------|--------------------------------|-----------------------------|------------------------|---------------------------------|
| AMW-1 | Slug In | 15.5 | 4.59 | 7.29 | 0.0858 | 0.34 | 11 | 10 | 10.91 |
| | Slug Out | | | 2.5 | | | | | |
| APZ-2 | Slug in | 32.7 | 4.72 | --- | 0.0858 | 0.34 | 28 | 5 | 27.98 |
| | Slug Out | | | 2.22 | | | | | |
| AMW-3 | Slug In | 15.5 | 4.04 | 5.16 | 0.0858 | 0.34 | 12 | 10 | 11.46 |
| | Slug Out | | | 2.16 | | | | | |
| AMW-4 | Slug In | 15.2 | 2.77 | 4.05 | 0.0858 | 0.34 | 13 | 10 | 12.43 |
| | Slug Out | | | 0.4 | | | | | |
| APZ-4 | Slug In | 32.7 | 3.90 | 7.73 | 0.0858 | 0.34 | 29 | 5 | 28.8 |
| | Slug Out | | | --- | | | | | |
| AMW-5 | Slug In | 15.6 | 3.58 | 4.89 | 0.0858 | 0.34 | 13 | 10 | 12.02 |
| | Slug Out | | | 1.54 | | | | | |
| AMW-6 | Slug In | 14.9 | 3.28 | 4.62 | 0.0858 | 0.34 | 12 | 10 | 11.62 |
| | Slug Out | | | 1.27 | | | | | |

Appendix C
Laboratory Analytical Reports for Soil Samples

April 24, 2015

Jeff Steiner
AYRES & ASSOCIATES, INC.
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

Dear Jeff Steiner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-------------|--------|----------------|----------------|
| 40112959001 | PZ-1 2.5-5 | Solid | 04/06/15 10:40 | 04/10/15 09:45 |
| 40112959002 | PZ-2 2.5-5 | Solid | 04/06/15 14:15 | 04/10/15 09:45 |
| 40112959003 | GP-1 2.5-5 | Solid | 04/06/15 17:15 | 04/10/15 09:45 |
| 40112959004 | GP-2 0-2.5 | Solid | 04/06/15 17:25 | 04/10/15 09:45 |
| 40112959005 | GP-3 0-2.5 | Solid | 04/06/15 17:35 | 04/10/15 09:45 |
| 40112959006 | GP-4 0-2.5 | Solid | 04/07/15 07:25 | 04/10/15 09:45 |
| 40112959007 | MW-3 2.5-5 | Solid | 04/07/15 07:50 | 04/10/15 09:45 |
| 40112959008 | GP-3 2.5-5 | Solid | 04/06/15 17:35 | 04/10/15 09:45 |
| 40112959009 | GP-5 2.5-5 | Solid | 04/07/15 09:10 | 04/10/15 09:45 |
| 40112959010 | GP-6 2.5-5 | Solid | 04/07/15 09:25 | 04/10/15 09:45 |
| 40112959011 | GP-7 0-2.5 | Solid | 04/07/15 09:50 | 04/10/15 09:45 |
| 40112959012 | PZ-4 2.5-5 | Solid | 04/07/15 10:30 | 04/10/15 09:45 |
| 40112959013 | GP-8 0-2.5 | Solid | 04/07/15 13:50 | 04/10/15 09:45 |
| 40112959014 | MW-5 0-2.5 | Solid | 04/07/15 14:15 | 04/10/15 09:45 |
| 40112959015 | MW-6 0-2.5 | Solid | 04/07/15 15:10 | 04/10/15 09:45 |
| 40112959016 | GP-9 0-2.5 | Solid | 04/07/15 16:00 | 04/10/15 09:45 |
| 40112959017 | GP-10 0-2.5 | Solid | 04/07/15 16:15 | 04/10/15 09:45 |
| 40112959018 | GP-11 0-2.5 | Solid | 04/07/15 16:30 | 04/10/15 09:45 |
| 40112959019 | MEOH B | Solid | 04/07/15 00:00 | 04/10/15 09:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------|-----------------|----------|-------------------|------------|
| 40112959001 | PZ-1 2.5-5 | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| 40112959002 | PZ-2 2.5-5 | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| 40112959003 | GP-1 2.5-5 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| 40112959004 | GP-2 0-2.5 | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| 40112959005 | GP-3 0-2.5 | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959006 | GP-4 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| 40112959007 | MW-3 2.5-5 | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------|-----------------|----------|-------------------|------------|
| 40112959008 | GP-3 2.5-5 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| 40112959009 | GP-5 2.5-5 | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| 40112959010 | GP-6 2.5-5 | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959011 | GP-7 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| 40112959012 | PZ-4 2.5-5 | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 8082 | BLM | 10 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| 40112959013 | GP-8 0-2.5 | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| 40112959014 | MW-5 0-2.5 | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |

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SAMPLE ANALYTE COUNT

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-------------|-----------------|----------|-------------------|------------|
| 40112959015 | MW-6 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959016 | GP-9 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959017 | GP-10 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959018 | GP-11 0-2.5 | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |
| | | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7471 | LMS | 1 | PASI-G |
| | | EPA 8270 by SIM | ARO | 20 | PASI-G |
| 40112959019 | MEOH B | EPA 8260 | SMT | 64 | PASI-G |
| | | ASTM D2974-87 | SKW | 1 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959001 | PZ-1 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 3.7J | mg/kg | 10.5 | 04/15/15 15:16 | D3 |
| EPA 6010 | Barium | 18.4 | mg/kg | 0.52 | 04/14/15 20:25 | |
| EPA 6010 | Cadmium | 0.12J | mg/kg | 0.52 | 04/14/15 20:25 | |
| EPA 6010 | Chromium | 5.8 | mg/kg | 0.52 | 04/14/15 20:25 | |
| EPA 6010 | Lead | 6.3 | mg/kg | 1.0 | 04/14/15 20:25 | |
| EPA 7471 | Mercury | 0.011 | mg/kg | 0.0064 | 04/23/15 10:22 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 11.9J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 13.5J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 9.2J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 9.2J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 12.0J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Chrysene | 16.6J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Fluoranthene | 15.6J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 7.1J | ug/kg | 17.6 | 04/14/15 16:34 | |
| EPA 8270 by SIM | Pyrene | 20.1 | ug/kg | 17.6 | 04/14/15 16:34 | |
| ASTM D2974-87 | Percent Moisture | 5.4 | % | 0.10 | 04/22/15 07:09 | |
| 40112959002 | PZ-2 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 1.4J | mg/kg | 2.4 | 04/14/15 20:27 | |
| EPA 6010 | Barium | 19.0 | mg/kg | 0.60 | 04/14/15 20:27 | |
| EPA 6010 | Cadmium | 0.097J | mg/kg | 0.60 | 04/14/15 20:27 | |
| EPA 6010 | Chromium | 5.6 | mg/kg | 0.60 | 04/14/15 20:27 | |
| EPA 6010 | Lead | 8.7 | mg/kg | 1.2 | 04/14/15 20:27 | |
| EPA 7471 | Mercury | 0.032 | mg/kg | 0.0075 | 04/23/15 10:24 | |
| EPA 8270 by SIM | Acenaphthylene | 10.9J | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Anthracene | 11.4J | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 21.5 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 31.2 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 28.3 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 24.9 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 34.3 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Chrysene | 42.2 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Fluoranthene | 81.8 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 21.8 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 64.2 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 113 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Naphthalene | 83.5 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Phenanthrene | 97.6 | ug/kg | 20.5 | 04/14/15 16:51 | |
| EPA 8270 by SIM | Pyrene | 66.5 | ug/kg | 20.5 | 04/14/15 16:51 | |
| ASTM D2974-87 | Percent Moisture | 18.7 | % | 0.10 | 04/22/15 07:09 | |
| 40112959003 | GP-1 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 1.7J | mg/kg | 2.3 | 04/14/15 20:34 | |
| EPA 6010 | Barium | 40.6 | mg/kg | 0.57 | 04/14/15 20:34 | |
| EPA 6010 | Cadmium | 0.086J | mg/kg | 0.57 | 04/14/15 20:34 | |
| EPA 6010 | Chromium | 14.2 | mg/kg | 0.57 | 04/14/15 20:34 | |
| EPA 6010 | Lead | 27.1 | mg/kg | 1.1 | 04/14/15 20:34 | |
| EPA 7471 | Mercury | 0.041 | mg/kg | 0.0073 | 04/23/15 10:27 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959003 | GP-1 2.5-5 | | | | | |
| EPA 8270 by SIM | Acenaphthene | 50.4 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Acenaphthylene | 34.5 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Anthracene | 175 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 284 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 273 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 276 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 198 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 236 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Chrysene | 334 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 72.1 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Fluoranthene | 607 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Fluorene | 65.8 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 168 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 17.4J | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 16.0J | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Naphthalene | 15.9J | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Phenanthrene | 528 | ug/kg | 20.1 | 04/14/15 17:42 | |
| EPA 8270 by SIM | Pyrene | 461 | ug/kg | 20.1 | 04/14/15 17:42 | |
| ASTM D2974-87 | Percent Moisture | 17.0 | % | 0.10 | 04/22/15 07:37 | |
| 40112959004 | GP-2 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 1.9J | mg/kg | 2.2 | 04/14/15 20:18 | |
| EPA 6010 | Barium | 15.4 | mg/kg | 0.55 | 04/14/15 20:18 | |
| EPA 6010 | Cadmium | 0.097J | mg/kg | 0.55 | 04/14/15 20:18 | |
| EPA 6010 | Chromium | 6.2 | mg/kg | 0.55 | 04/14/15 20:18 | |
| EPA 6010 | Lead | 11.0 | mg/kg | 1.1 | 04/14/15 20:18 | |
| EPA 7471 | Mercury | 0.014 | mg/kg | 0.0067 | 04/23/15 10:29 | |
| EPA 8270 by SIM | Anthracene | 25.8 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 61.9 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 57.7 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 51.9 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 36.8 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 57.8 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Chrysene | 72.9 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 13.4J | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Fluoranthene | 133 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Fluorene | 11.2J | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 33.4 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Phenanthrene | 103 | ug/kg | 18.3 | 04/14/15 17:59 | |
| EPA 8270 by SIM | Pyrene | 106 | ug/kg | 18.3 | 04/14/15 17:59 | |
| ASTM D2974-87 | Percent Moisture | 8.8 | % | 0.10 | 04/22/15 07:37 | |
| 40112959005 | GP-3 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 42.3 | mg/kg | 2.5 | 04/14/15 20:36 | |
| EPA 6010 | Barium | 307 | mg/kg | 0.64 | 04/14/15 20:36 | |
| EPA 6010 | Cadmium | 0.47J | mg/kg | 0.64 | 04/14/15 20:36 | |
| EPA 6010 | Chromium | 27.9 | mg/kg | 0.64 | 04/14/15 20:36 | |
| EPA 6010 | Lead | 388 | mg/kg | 1.3 | 04/14/15 20:36 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|---------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40112959005 | GP-3 0-2.5 | | | | | |
| EPA 6010 | Selenium | 1.1J | mg/kg | 2.5 | 04/14/15 20:36 | |
| EPA 7471 | Mercury | 0.11 | mg/kg | 0.0086 | 04/23/15 10:31 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 38.4J | ug/kg | 86.8 | 04/14/15 10:08 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 45.6J | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Chrysene | 123 | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Fluoranthene | 54.7J | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Fluorene | 50.1J | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 764 | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 1460 | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Naphthalene | 943 | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Phenanthrene | 332 | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8270 by SIM | Pyrene | 73.5J | ug/kg | 86.8 | 04/14/15 17:08 | |
| EPA 8260 | Benzene | 1130 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | n-Butylbenzene | 281 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | sec-Butylbenzene | 85.1 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | Ethylbenzene | 1180 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 78.2 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | p-Isopropyltoluene | 43.6J | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | Naphthalene | 1230 | ug/kg | 325 | 04/14/15 22:36 | |
| EPA 8260 | n-Propylbenzene | 411 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | Toluene | 1670 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 1280 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 334 | ug/kg | 78.1 | 04/14/15 22:36 | |
| EPA 8260 | m&p-Xylene | 2150 | ug/kg | 156 | 04/14/15 22:36 | |
| EPA 8260 | o-Xylene | 678 | ug/kg | 78.1 | 04/14/15 22:36 | |
| ASTM D2974-87 | Percent Moisture | 23.2 | % | 0.10 | 04/22/15 07:37 | |
| 40112959006 | GP-4 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 15.2 | mg/kg | 3.1 | 04/14/15 20:38 | |
| EPA 6010 | Barium | 742 | mg/kg | 0.77 | 04/14/15 20:38 | |
| EPA 6010 | Cadmium | 1.9 | mg/kg | 0.77 | 04/14/15 20:38 | |
| EPA 6010 | Chromium | 21.8 | mg/kg | 0.77 | 04/14/15 20:38 | |
| EPA 6010 | Lead | 1030 | mg/kg | 1.5 | 04/14/15 20:38 | |
| EPA 6010 | Silver | 0.48J | mg/kg | 1.5 | 04/14/15 20:38 | |
| EPA 7471 | Mercury | 0.48 | mg/kg | 0.082 | 04/23/15 11:27 | |
| EPA 8270 by SIM | Acenaphthylene | 43.0 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Anthracene | 36.3 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 117 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 117 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 106 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 73.7 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 113 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Chrysene | 141 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 27.7 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Fluoranthene | 186 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 67.6 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 13.9J | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Naphthalene | 18.6J | ug/kg | 27.0 | 04/14/15 17:25 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959006 | GP-4 0-2.5 | | | | | |
| EPA 8270 by SIM | Phenanthrene | 76.4 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8270 by SIM | Pyrene | 162 | ug/kg | 27.0 | 04/14/15 17:25 | |
| EPA 8260 | p-Isopropyltoluene | 95.7J | ug/kg | 141 | 04/14/15 22:59 | |
| ASTM D2974-87 | Percent Moisture | 38.3 | % | 0.10 | 04/22/15 07:37 | |
| 40112959007 | MW-3 2.5-5 | | | | | |
| EPA 6010 | Barium | 79.1 | mg/kg | 2.2 | 04/14/15 20:41 | |
| EPA 6010 | Cadmium | 0.40J | mg/kg | 2.2 | 04/14/15 20:41 | |
| EPA 6010 | Chromium | 3.2 | mg/kg | 2.2 | 04/14/15 20:41 | |
| EPA 6010 | Lead | 16.7 | mg/kg | 4.4 | 04/14/15 20:41 | |
| EPA 7471 | Mercury | 0.067 | mg/kg | 0.030 | 04/23/15 10:41 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 55.0J | ug/kg | 152 | 04/15/15 12:53 | |
| EPA 8270 by SIM | Chrysene | 97.4J | ug/kg | 152 | 04/15/15 12:53 | |
| EPA 8270 by SIM | Fluoranthene | 118J | ug/kg | 152 | 04/15/15 12:53 | |
| EPA 8270 by SIM | Naphthalene | 133J | ug/kg | 152 | 04/15/15 12:53 | |
| EPA 8270 by SIM | Phenanthrene | 124J | ug/kg | 152 | 04/15/15 12:53 | |
| EPA 8270 by SIM | Pyrene | 125J | ug/kg | 152 | 04/15/15 12:53 | |
| ASTM D2974-87 | Percent Moisture | 78.1 | % | 0.10 | 04/22/15 07:37 | |
| 40112959008 | GP-3 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 17.8 | mg/kg | 2.7 | 04/14/15 20:43 | |
| EPA 6010 | Barium | 439 | mg/kg | 0.67 | 04/14/15 20:43 | |
| EPA 6010 | Cadmium | 0.88 | mg/kg | 0.67 | 04/14/15 20:43 | |
| EPA 6010 | Chromium | 24.1 | mg/kg | 0.67 | 04/14/15 20:43 | |
| EPA 6010 | Lead | 1370 | mg/kg | 1.3 | 04/14/15 20:43 | |
| EPA 6010 | Selenium | 1.6J | mg/kg | 2.7 | 04/14/15 20:43 | |
| EPA 7471 | Mercury | 0.41 | mg/kg | 0.010 | 04/23/15 10:43 | |
| EPA 8270 by SIM | Acenaphthylene | 178 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Anthracene | 127 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 244 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 321 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 294 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 195 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 311 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Chrysene | 357 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 62.4 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Fluoranthene | 431 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Fluorene | 30.4J | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 179 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 1060 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 904 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Naphthalene | 928 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Phenanthrene | 252 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8270 by SIM | Pyrene | 440 | ug/kg | 53.8 | 04/15/15 17:12 | |
| EPA 8260 | n-Butylbenzene | 1650 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | sec-Butylbenzene | 675 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 906 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | Naphthalene | 453J | ug/kg | 2080 | 04/15/15 03:36 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40112959008 | GP-3 2.5-5 | | | | | |
| EPA 8260 | n-Propylbenzene | 3880 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 37400 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 8830 | ug/kg | 499 | 04/15/15 03:36 | |
| EPA 8260 | m&p-Xylene | 497J | ug/kg | 998 | 04/15/15 03:36 | |
| ASTM D2974-87 | Percent Moisture | 38.0 | % | 0.10 | 04/22/15 07:37 | |
| 40112959009 | GP-5 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 4.5 | mg/kg | 2.8 | 04/14/15 20:45 | |
| EPA 6010 | Barium | 63.1 | mg/kg | 0.70 | 04/14/15 20:45 | |
| EPA 6010 | Chromium | 9.8 | mg/kg | 0.70 | 04/14/15 20:45 | |
| EPA 6010 | Lead | 38.9 | mg/kg | 1.4 | 04/14/15 20:45 | |
| EPA 7471 | Mercury | 0.12 | mg/kg | 0.010 | 04/23/15 10:45 | |
| EPA 8270 by SIM | Acenaphthene | 1080 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Acenaphthylene | 989 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Anthracene | 2860 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 4280 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 4070 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 3490 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 1560 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 3430 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Chrysene | 4730 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 669 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Fluoranthene | 8160 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Fluorene | 1650 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 1720 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 994 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 1280 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Naphthalene | 1410 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Phenanthrene | 6950 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8270 by SIM | Pyrene | 7600 | ug/kg | 545 | 04/15/15 16:38 | |
| EPA 8260 | Benzene | 50.8J | ug/kg | 98.0 | 04/14/15 23:45 | |
| EPA 8260 | Naphthalene | 266J | ug/kg | 409 | 04/14/15 23:45 | |
| EPA 8260 | Toluene | 151 | ug/kg | 98.0 | 04/14/15 23:45 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 44.6J | ug/kg | 98.0 | 04/14/15 23:45 | |
| EPA 8260 | m&p-Xylene | 82.0J | ug/kg | 196 | 04/14/15 23:45 | |
| ASTM D2974-87 | Percent Moisture | 38.8 | % | 0.10 | 04/22/15 07:37 | |
| 40112959010 | GP-6 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 4.7 | mg/kg | 2.1 | 04/14/15 20:48 | |
| EPA 6010 | Barium | 31.8 | mg/kg | 0.51 | 04/14/15 20:48 | |
| EPA 6010 | Cadmium | 0.072J | mg/kg | 0.51 | 04/14/15 20:48 | |
| EPA 6010 | Chromium | 5.2 | mg/kg | 0.51 | 04/14/15 20:48 | |
| EPA 6010 | Lead | 17.0 | mg/kg | 1.0 | 04/14/15 20:48 | |
| EPA 7471 | Mercury | 0.087 | mg/kg | 0.0075 | 04/23/15 10:48 | |
| EPA 8270 by SIM | Acenaphthene | 3740 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Acenaphthylene | 1440 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Anthracene | 3480 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 3260 | ug/kg | 755 | 04/15/15 16:55 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|-------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40112959010 | GP-6 2.5-5 | | | | | |
| EPA 8270 by SIM | Benzo(a)pyrene | 3740 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 2780 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 1710 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 3130 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Chrysene | 3480 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 602J | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Fluoranthene | 7250 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Fluorene | 4350 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 1640 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 1730 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 515J | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Naphthalene | 806 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Phenanthrene | 10300 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8270 by SIM | Pyrene | 7140 | ug/kg | 755 | 04/15/15 16:55 | |
| EPA 8260 | Naphthalene | 1130 | ug/kg | 283 | 04/15/15 00:08 | |
| EPA 8260 | Toluene | 98.6 | ug/kg | 67.9 | 04/15/15 00:08 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 64.9J | ug/kg | 67.9 | 04/15/15 00:08 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 29.4J | ug/kg | 67.9 | 04/15/15 00:08 | |
| EPA 8260 | m&p-Xylene | 102J | ug/kg | 136 | 04/15/15 00:08 | |
| EPA 8260 | o-Xylene | 65.4J | ug/kg | 67.9 | 04/15/15 00:08 | |
| ASTM D2974-87 | Percent Moisture | 11.7 | % | 0.10 | 04/22/15 07:37 | |
| 40112959011 | GP-7 0-2.5 | | | | | |
| EPA 8082 | PCB-1260 (Aroclor 1260) | 324 | ug/kg | 61.5 | 04/13/15 19:46 | |
| EPA 8082 | PCB, Total | 324 | ug/kg | 61.5 | 04/13/15 19:46 | |
| EPA 6010 | Arsenic | 2.2 | mg/kg | 2.1 | 04/14/15 20:50 | |
| EPA 6010 | Barium | 32.5 | mg/kg | 0.52 | 04/14/15 20:50 | |
| EPA 6010 | Cadmium | 0.28J | mg/kg | 0.52 | 04/14/15 20:50 | |
| EPA 6010 | Chromium | 10.0 | mg/kg | 0.52 | 04/14/15 20:50 | |
| EPA 6010 | Lead | 127 | mg/kg | 1.0 | 04/14/15 20:50 | |
| EPA 7471 | Mercury | 0.073 | mg/kg | 0.0065 | 04/23/15 10:50 | |
| EPA 8270 by SIM | Acenaphthene | 23.0J | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Acenaphthylene | 30.2J | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Anthracene | 70.5 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 88.0 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 88.8 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 80.1 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 272 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 78.2 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Chrysene | 117 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 31.2J | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Fluoranthene | 174 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Fluorene | 29.4J | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 85.5 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 168 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 312 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Naphthalene | 171 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8270 by SIM | Phenanthrene | 214 | ug/kg | 41.0 | 04/15/15 16:20 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40112959011 | GP-7 0-2.5 | | | | | |
| EPA 8270 by SIM | Pyrene | 193 | ug/kg | 41.0 | 04/15/15 16:20 | |
| EPA 8260 | Ethylbenzene | 36.2J | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | Methylene Chloride | 66.7J | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | Naphthalene | 78.5J | ug/kg | 308 | 04/15/15 00:32 | |
| EPA 8260 | Tetrachloroethene | 130 | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | Toluene | 160 | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | Trichloroethene | 109 | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 52.2J | ug/kg | 73.9 | 04/15/15 00:32 | |
| EPA 8260 | m&p-Xylene | 140J | ug/kg | 148 | 04/15/15 00:32 | |
| EPA 8260 | o-Xylene | 53.6J | ug/kg | 73.9 | 04/15/15 00:32 | |
| ASTM D2974-87 | Percent Moisture | 18.8 | % | 0.10 | 04/22/15 07:37 | |
| 40112959012 | PZ-4 2.5-5 | | | | | |
| EPA 6010 | Arsenic | 4.4 | mg/kg | 3.0 | 04/14/15 20:52 | |
| EPA 6010 | Barium | 71.2 | mg/kg | 0.75 | 04/14/15 20:52 | |
| EPA 6010 | Cadmium | 0.21J | mg/kg | 0.75 | 04/14/15 20:52 | |
| EPA 6010 | Chromium | 4.9 | mg/kg | 0.75 | 04/14/15 20:52 | |
| EPA 6010 | Lead | 111 | mg/kg | 1.5 | 04/14/15 20:52 | |
| EPA 7471 | Mercury | 0.014 | mg/kg | 0.011 | 04/23/15 10:52 | |
| EPA 8270 by SIM | Acenaphthene | 22.6J | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Acenaphthylene | 94.3 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Anthracene | 113 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 251 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 268 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 241 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 131 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 230 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Chrysene | 335 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 63.0 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Fluoranthene | 464 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Fluorene | 45.9 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 125 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 224 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 290 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Naphthalene | 223 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Phenanthrene | 409 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8270 by SIM | Pyrene | 422 | ug/kg | 27.4 | 04/15/15 16:03 | |
| EPA 8260 | Benzene | 75.9J | ug/kg | 109 | 04/15/15 00:55 | |
| ASTM D2974-87 | Percent Moisture | 39.2 | % | 0.10 | 04/22/15 07:37 | |
| 40112959013 | GP-8 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 3.0 | mg/kg | 2.2 | 04/14/15 20:55 | |
| EPA 6010 | Barium | 83.6 | mg/kg | 0.54 | 04/14/15 20:55 | |
| EPA 6010 | Cadmium | 0.17J | mg/kg | 0.54 | 04/14/15 20:55 | |
| EPA 6010 | Chromium | 7.9 | mg/kg | 0.54 | 04/14/15 20:55 | |
| EPA 6010 | Lead | 30.0 | mg/kg | 1.1 | 04/14/15 20:55 | |
| EPA 7471 | Mercury | 0.069 | mg/kg | 0.0078 | 04/23/15 10:55 | |
| EPA 8270 by SIM | Acenaphthylene | 194 | ug/kg | 41.0 | 04/16/15 16:34 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959013 | GP-8 0-2.5 | | | | | |
| EPA 8270 by SIM | Anthracene | 184 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 498 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 577 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 467 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 396 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 469 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Chrysene | 618 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 123 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Fluoranthene | 789 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Fluorene | 39.6J | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 330 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 85.7 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 180 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Naphthalene | 128 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Phenanthrene | 436 | ug/kg | 41.0 | 04/16/15 16:34 | |
| EPA 8270 by SIM | Pyrene | 745 | ug/kg | 41.0 | 04/16/15 16:34 | |
| ASTM D2974-87 | Percent Moisture | 18.6 | % | 0.10 | 04/22/15 07:37 | |
| 40112959014 | MW-5 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 21.1 | mg/kg | 2.2 | 04/14/15 21:02 | |
| EPA 6010 | Barium | 55.5 | mg/kg | 0.56 | 04/14/15 21:02 | |
| EPA 6010 | Chromium | 6.8 | mg/kg | 0.56 | 04/14/15 21:02 | |
| EPA 6010 | Lead | 20.6 | mg/kg | 1.1 | 04/14/15 21:02 | |
| EPA 7471 | Mercury | 0.023 | mg/kg | 0.0070 | 04/23/15 10:57 | |
| EPA 8270 by SIM | Acenaphthylene | 155 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Anthracene | 204 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 366 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 454 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 488 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 218 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 291 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Chrysene | 722 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 74.8J | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Fluoranthene | 378 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Fluorene | 54.3J | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 176 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 733 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 1780 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Naphthalene | 805 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Phenanthrene | 411 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8270 by SIM | Pyrene | 868 | ug/kg | 101 | 04/16/15 17:44 | |
| EPA 8260 | Naphthalene | 99.4J | ug/kg | 303 | 04/15/15 01:41 | |
| EPA 8260 | Toluene | 39.5J | ug/kg | 72.6 | 04/15/15 01:41 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 44.5J | ug/kg | 72.6 | 04/15/15 01:41 | |
| ASTM D2974-87 | Percent Moisture | 17.4 | % | 0.10 | 04/22/15 07:38 | |
| 40112959015 | MW-6 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 3.2 | mg/kg | 2.2 | 04/14/15 21:04 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40112959015 | MW-6 0-2.5 | | | | | |
| EPA 6010 | Barium | 54.8 | mg/kg | 0.54 | 04/14/15 21:04 | |
| EPA 6010 | Cadmium | 0.35J | mg/kg | 0.54 | 04/14/15 21:04 | |
| EPA 6010 | Chromium | 14.3 | mg/kg | 0.54 | 04/14/15 21:04 | |
| EPA 6010 | Lead | 95.7 | mg/kg | 1.1 | 04/14/15 21:04 | |
| EPA 7471 | Mercury | 0.015 | mg/kg | 0.0066 | 04/23/15 10:59 | |
| EPA 8270 by SIM | Acenaphthene | 38.8J | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Acenaphthylene | 189 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Anthracene | 192 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 301 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 378 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 361 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 281 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 267 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Chrysene | 435 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 83.0 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Fluoranthene | 541 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Fluorene | 61.1 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 213 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 245 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 475 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Naphthalene | 289 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Phenanthrene | 526 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8270 by SIM | Pyrene | 621 | ug/kg | 39.4 | 04/16/15 16:52 | |
| EPA 8260 | cis-1,2-Dichloroethene | 180 | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | Ethylbenzene | 43.7J | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | Naphthalene | 192J | ug/kg | 295 | 04/15/15 03:13 | |
| EPA 8260 | Tetrachloroethene | 53.2J | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | Toluene | 222 | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | Trichloroethene | 237 | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 74.0 | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 72.5 | ug/kg | 70.8 | 04/15/15 03:13 | |
| EPA 8260 | m&p-Xylene | 167 | ug/kg | 142 | 04/15/15 03:13 | |
| EPA 8260 | o-Xylene | 66.4J | ug/kg | 70.8 | 04/15/15 03:13 | |
| ASTM D2974-87 | Percent Moisture | 15.3 | % | 0.10 | 04/22/15 07:38 | |
| 40112959016 | GP-9 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 2.9 | mg/kg | 2.3 | 04/14/15 21:06 | |
| EPA 6010 | Barium | 77.1 | mg/kg | 0.57 | 04/14/15 21:06 | |
| EPA 6010 | Cadmium | 0.28J | mg/kg | 0.57 | 04/14/15 21:06 | |
| EPA 6010 | Chromium | 10.6 | mg/kg | 0.57 | 04/14/15 21:06 | |
| EPA 6010 | Lead | 177 | mg/kg | 1.1 | 04/14/15 21:06 | |
| EPA 7471 | Mercury | 0.019 | mg/kg | 0.0067 | 04/23/15 11:06 | |
| EPA 8270 by SIM | Acenaphthylene | 44.0 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Anthracene | 45.2 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 90.4 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 107 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 107 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 75.0 | ug/kg | 19.9 | 04/16/15 17:26 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959016 | GP-9 0-2.5 | | | | | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 90.7 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Chrysene | 128 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 24.2 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Fluoranthene | 150 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Fluorene | 13.9J | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 61.4 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 161 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 242 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Naphthalene | 154 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Phenanthrene | 181 | ug/kg | 19.9 | 04/16/15 17:26 | |
| EPA 8270 by SIM | Pyrene | 156 | ug/kg | 19.9 | 04/16/15 17:26 | |
| ASTM D2974-87 | Percent Moisture | 16.2 | % | 0.10 | 04/22/15 07:38 | |
| 40112959017 | GP-10 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 3.2 | mg/kg | 2.3 | 04/14/15 21:09 | |
| EPA 6010 | Barium | 39.9 | mg/kg | 0.57 | 04/14/15 21:09 | |
| EPA 6010 | Cadmium | 0.16J | mg/kg | 0.57 | 04/14/15 21:09 | |
| EPA 6010 | Chromium | 8.7 | mg/kg | 0.57 | 04/14/15 21:09 | |
| EPA 6010 | Lead | 49.3 | mg/kg | 1.1 | 04/14/15 21:09 | |
| EPA 7471 | Mercury | 0.099 | mg/kg | 0.0079 | 04/23/15 11:08 | |
| EPA 8270 by SIM | Acenaphthylene | 324 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Anthracene | 269 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 666 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 831 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 676 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 781 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 673 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Chrysene | 923 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Dibenz(a,h)anthracene | 202 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Fluoranthene | 902 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Fluorene | 41.0J | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 536 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 156 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 261 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Naphthalene | 269 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Phenanthrene | 606 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8270 by SIM | Pyrene | 1160 | ug/kg | 41.3 | 04/15/15 13:10 | |
| EPA 8260 | Naphthalene | 67.4J | ug/kg | 310 | 04/15/15 02:27 | |
| EPA 8260 | Toluene | 42.9J | ug/kg | 74.3 | 04/15/15 02:27 | |
| ASTM D2974-87 | Percent Moisture | 19.3 | % | 0.10 | 04/22/15 07:38 | |
| 40112959018 | GP-11 0-2.5 | | | | | |
| EPA 6010 | Arsenic | 14.4 | mg/kg | 2.6 | 04/14/15 21:11 | |
| EPA 6010 | Barium | 318 | mg/kg | 0.66 | 04/14/15 21:11 | |
| EPA 6010 | Cadmium | 1.3 | mg/kg | 0.66 | 04/14/15 21:11 | |
| EPA 6010 | Chromium | 15.7 | mg/kg | 0.66 | 04/14/15 21:11 | |
| EPA 6010 | Lead | 566 | mg/kg | 1.3 | 04/14/15 21:11 | |
| EPA 6010 | Selenium | 1.3J | mg/kg | 2.6 | 04/14/15 21:11 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40112959018 | GP-11 0-2.5 | | | | | |
| EPA 7471 | Mercury | 0.62 | mg/kg | 0.087 | 04/23/15 11:29 | |
| EPA 8270 by SIM | Benzo(a)anthracene | 18.6J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Benzo(a)pyrene | 19.5J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Benzo(b)fluoranthene | 19.9J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Benzo(g,h,i)perylene | 15.5J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Benzo(k)fluoranthene | 18.5J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Chrysene | 29.6 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Fluoranthene | 27.4 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Indeno(1,2,3-cd)pyrene | 12.8J | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | 1-Methylnaphthalene | 64.8 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | 2-Methylnaphthalene | 80.5 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Naphthalene | 64.3 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Phenanthrene | 47.4 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8270 by SIM | Pyrene | 24.5 | ug/kg | 23.2 | 04/15/15 13:28 | |
| EPA 8260 | Benzene | 292 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | n-Butylbenzene | 101 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | Ethylbenzene | 50.9J | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 42.3J | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | n-Propylbenzene | 101 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | Toluene | 231 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 478 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 445 | ug/kg | 83.6 | 04/15/15 02:50 | |
| EPA 8260 | m&p-Xylene | 550 | ug/kg | 167 | 04/15/15 02:50 | |
| EPA 8260 | o-Xylene | 108 | ug/kg | 83.6 | 04/15/15 02:50 | |
| ASTM D2974-87 | Percent Moisture | 28.3 | % | 0.10 | 04/22/15 07:38 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-1 2.5-5 **Lab ID: 40112959001** Collected: 04/06/15 10:40 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 11096-82-5 | |
| PCB, Total | <26.4 | ug/kg | 52.9 | 26.4 | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 72 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 877-09-8 | |
| Decachlorobiphenyl (S) | 65 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 17:44 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 3.7J | mg/kg | 10.5 | 3.3 | 5 | 04/13/15 17:10 | 04/15/15 15:16 | 7440-38-2 | D3 |
| Barium | 18.4 | mg/kg | 0.52 | 0.12 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7440-39-3 | |
| Cadmium | 0.12J | mg/kg | 0.52 | 0.069 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7440-43-9 | |
| Chromium | 5.8 | mg/kg | 0.52 | 0.20 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7440-47-3 | |
| Lead | 6.3 | mg/kg | 1.0 | 0.45 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7439-92-1 | |
| Selenium | <0.81 | mg/kg | 2.1 | 0.81 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7782-49-2 | |
| Silver | <0.29 | mg/kg | 1.0 | 0.29 | 1 | 04/13/15 17:10 | 04/14/15 20:25 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.011 | mg/kg | 0.0064 | 0.0032 | 1 | 04/22/15 15:15 | 04/23/15 10:22 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 83-32-9 | |
| Acenaphthylene | <7.9 | ug/kg | 17.6 | 7.9 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 208-96-8 | |
| Anthracene | <9.1 | ug/kg | 17.6 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 120-12-7 | |
| Benzo(a)anthracene | 11.9J | ug/kg | 17.6 | 6.1 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 56-55-3 | |
| Benzo(a)pyrene | 13.5J | ug/kg | 17.6 | 6.3 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 50-32-8 | |
| Benzo(b)fluoranthene | 9.2J | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 205-99-2 | |
| Benzo(g,h,i)perylene | 9.2J | ug/kg | 17.6 | 6.7 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 191-24-2 | |
| Benzo(k)fluoranthene | 12.0J | ug/kg | 17.6 | 9.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 207-08-9 | |
| Chrysene | 16.6J | ug/kg | 17.6 | 8.2 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 218-01-9 | |
| Dibenz(a,h)anthracene | <6.5 | ug/kg | 17.6 | 6.5 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 53-70-3 | |
| Fluoranthene | 15.6J | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 206-44-0 | |
| Fluorene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 7.1J | ug/kg | 17.6 | 6.7 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 193-39-5 | |
| 1-Methylnaphthalene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 90-12-0 | |
| 2-Methylnaphthalene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 91-57-6 | |
| Naphthalene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 91-20-3 | |
| Phenanthrene | <8.8 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 85-01-8 | |
| Pyrene | 20.1 | ug/kg | 17.6 | 8.8 | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 64 | % | 39-130 | | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-1 2.5-5 **Lab ID: 40112959001** Collected: 04/06/15 10:40 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 56 | % | 37-130 | | 1 | 04/14/15 09:43 | 04/14/15 16:34 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-09-2 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-1 2.5-5 **Lab ID: 40112959001** Collected: 04/06/15 10:40 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 21:04 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 5.4 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:09 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-2 2.5-5 **Lab ID: 40112959002** Collected: 04/06/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 11096-82-5 | |
| PCB, Total | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 72 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 877-09-8 | |
| Decachlorobiphenyl (S) | 66 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 18:02 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 1.4J | mg/kg | 2.4 | 0.76 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7440-38-2 | |
| Barium | 19.0 | mg/kg | 0.60 | 0.14 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7440-39-3 | |
| Cadmium | 0.097J | mg/kg | 0.60 | 0.079 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7440-43-9 | |
| Chromium | 5.6 | mg/kg | 0.60 | 0.23 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7440-47-3 | |
| Lead | 8.7 | mg/kg | 1.2 | 0.51 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7439-92-1 | |
| Selenium | <0.92 | mg/kg | 2.4 | 0.92 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7782-49-2 | |
| Silver | <0.33 | mg/kg | 1.2 | 0.33 | 1 | 04/13/15 17:10 | 04/14/15 20:27 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.032 | mg/kg | 0.0075 | 0.0038 | 1 | 04/22/15 15:15 | 04/23/15 10:24 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <10.3 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 83-32-9 | |
| Acenaphthylene | 10.9J | ug/kg | 20.5 | 9.2 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 208-96-8 | |
| Anthracene | 11.4J | ug/kg | 20.5 | 10.6 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 120-12-7 | |
| Benzo(a)anthracene | 21.5 | ug/kg | 20.5 | 7.1 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 56-55-3 | |
| Benzo(a)pyrene | 31.2 | ug/kg | 20.5 | 7.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 50-32-8 | |
| Benzo(b)fluoranthene | 28.3 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 205-99-2 | |
| Benzo(g,h,i)perylene | 24.9 | ug/kg | 20.5 | 7.8 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 191-24-2 | |
| Benzo(k)fluoranthene | 34.3 | ug/kg | 20.5 | 11.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 207-08-9 | |
| Chrysene | 42.2 | ug/kg | 20.5 | 9.5 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 218-01-9 | |
| Dibenz(a,h)anthracene | <7.5 | ug/kg | 20.5 | 7.5 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 53-70-3 | |
| Fluoranthene | 81.8 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 206-44-0 | |
| Fluorene | <10.3 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 21.8 | ug/kg | 20.5 | 7.8 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 193-39-5 | |
| 1-Methylnaphthalene | 64.2 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 90-12-0 | |
| 2-Methylnaphthalene | 113 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 91-57-6 | |
| Naphthalene | 83.5 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 91-20-3 | |
| Phenanthrene | 97.6 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 85-01-8 | |
| Pyrene | 66.5 | ug/kg | 20.5 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 55 | % | 39-130 | | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-2 2.5-5 **Lab ID: 40112959002** Collected: 04/06/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 44 | % | 37-130 | | 1 | 04/14/15 09:43 | 04/14/15 16:51 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-09-2 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-2 2.5-5 **Lab ID: 40112959002** Collected: 04/06/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 99 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 87 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 21:27 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 18.7 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:09 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-1 2.5-5 **Lab ID:** 40112959003 Collected: 04/06/15 17:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 1.7J | mg/kg | 2.3 | 0.73 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7440-38-2 | |
| Barium | 40.6 | mg/kg | 0.57 | 0.14 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7440-39-3 | |
| Cadmium | 0.086J | mg/kg | 0.57 | 0.076 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7440-43-9 | |
| Chromium | 14.2 | mg/kg | 0.57 | 0.22 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7440-47-3 | |
| Lead | 27.1 | mg/kg | 1.1 | 0.49 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7439-92-1 | |
| Selenium | <0.88 | mg/kg | 2.3 | 0.88 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7782-49-2 | |
| Silver | <0.32 | mg/kg | 1.1 | 0.32 | 1 | 04/13/15 17:10 | 04/14/15 20:34 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.041 | mg/kg | 0.0073 | 0.0037 | 1 | 04/22/15 15:15 | 04/23/15 10:27 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 50.4 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 83-32-9 | |
| Acenaphthylene | 34.5 | ug/kg | 20.1 | 9.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 208-96-8 | |
| Anthracene | 175 | ug/kg | 20.1 | 10.4 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 120-12-7 | |
| Benzo(a)anthracene | 284 | ug/kg | 20.1 | 7.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 56-55-3 | |
| Benzo(a)pyrene | 273 | ug/kg | 20.1 | 7.2 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 50-32-8 | |
| Benzo(b)fluoranthene | 276 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 205-99-2 | |
| Benzo(g,h,i)perylene | 198 | ug/kg | 20.1 | 7.6 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 191-24-2 | |
| Benzo(k)fluoranthene | 236 | ug/kg | 20.1 | 11.1 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 207-08-9 | |
| Chrysene | 334 | ug/kg | 20.1 | 9.3 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 218-01-9 | |
| Dibenz(a,h)anthracene | 72.1 | ug/kg | 20.1 | 7.4 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 53-70-3 | |
| Fluoranthene | 607 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 206-44-0 | |
| Fluorene | 65.8 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 168 | ug/kg | 20.1 | 7.6 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 193-39-5 | |
| 1-Methylnaphthalene | 17.4J | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 90-12-0 | |
| 2-Methylnaphthalene | 16.0J | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 91-57-6 | |
| Naphthalene | 15.9J | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 91-20-3 | |
| Phenanthrene | 528 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 85-01-8 | |
| Pyrene | 461 | ug/kg | 20.1 | 10.0 | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 64 | % | 39-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 321-60-8 | |
| Terphenyl-d14 (S) | 55 | % | 37-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:42 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-1 2.5-5 **Lab ID:** 40112959003 **Collected:** 04/06/15 17:15 **Received:** 04/10/15 09:45 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-1 2.5-5 **Lab ID: 40112959003** Collected: 04/06/15 17:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 21:50 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 17.0 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-2 0-2.5 **Lab ID: 40112959004** Collected: 04/06/15 17:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 1.9J | mg/kg | 2.2 | 0.70 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7440-38-2 | |
| Barium | 15.4 | mg/kg | 0.55 | 0.13 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7440-39-3 | |
| Cadmium | 0.097J | mg/kg | 0.55 | 0.073 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7440-43-9 | |
| Chromium | 6.2 | mg/kg | 0.55 | 0.21 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7440-47-3 | |
| Lead | 11.0 | mg/kg | 1.1 | 0.47 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7439-92-1 | |
| Selenium | <0.84 | mg/kg | 2.2 | 0.84 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7782-49-2 | |
| Silver | <0.30 | mg/kg | 1.1 | 0.30 | 1 | 04/13/15 17:10 | 04/14/15 20:18 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.014 | mg/kg | 0.0067 | 0.0034 | 1 | 04/22/15 15:15 | 04/23/15 10:29 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <9.1 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 83-32-9 | |
| Acenaphthylene | <8.2 | ug/kg | 18.3 | 8.2 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 208-96-8 | |
| Anthracene | 25.8 | ug/kg | 18.3 | 9.5 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 120-12-7 | |
| Benzo(a)anthracene | 61.9 | ug/kg | 18.3 | 6.3 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 56-55-3 | |
| Benzo(a)pyrene | 57.7 | ug/kg | 18.3 | 6.5 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 50-32-8 | |
| Benzo(b)fluoranthene | 51.9 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 205-99-2 | |
| Benzo(g,h,i)perylene | 36.8 | ug/kg | 18.3 | 7.0 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 191-24-2 | |
| Benzo(k)fluoranthene | 57.8 | ug/kg | 18.3 | 10.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 207-08-9 | |
| Chrysene | 72.9 | ug/kg | 18.3 | 8.4 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 218-01-9 | |
| Dibenz(a,h)anthracene | 13.4J | ug/kg | 18.3 | 6.7 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 53-70-3 | |
| Fluoranthene | 133 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 206-44-0 | |
| Fluorene | 11.2J | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 33.4 | ug/kg | 18.3 | 6.9 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 193-39-5 | |
| 1-Methylnaphthalene | <9.1 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 90-12-0 | |
| 2-Methylnaphthalene | <9.1 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 91-57-6 | |
| Naphthalene | <9.1 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 91-20-3 | |
| Phenanthrene | 103 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 85-01-8 | |
| Pyrene | 106 | ug/kg | 18.3 | 9.1 | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 68 | % | 39-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 321-60-8 | |
| Terphenyl-d14 (S) | 65 | % | 37-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:59 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

Sample: GP-2 0-2.5 **Lab ID: 40112959004** Collected: 04/06/15 17:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-69-4 | W |

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-2 0-2.5 **Lab ID: 40112959004** Collected: 04/06/15 17:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|--|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 111 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 1868-53-7 | |
| Toluene-d8 (S) | 105 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 96 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 22:13 | 460-00-4 | |
| Percent Moisture | Analytical Method: ASTM D2974-87 | | | | | | | | |
| Percent Moisture | 8.8 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 0-2.5 **Lab ID: 40112959005** Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 42.3 | mg/kg | 2.5 | 0.81 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7440-38-2 | |
| Barium | 307 | mg/kg | 0.64 | 0.15 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7440-39-3 | |
| Cadmium | 0.47J | mg/kg | 0.64 | 0.084 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7440-43-9 | |
| Chromium | 27.9 | mg/kg | 0.64 | 0.25 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7440-47-3 | |
| Lead | 388 | mg/kg | 1.3 | 0.55 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7439-92-1 | |
| Selenium | 1.1J | mg/kg | 2.5 | 0.98 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7782-49-2 | |
| Silver | <0.35 | mg/kg | 1.3 | 0.35 | 1 | 04/13/15 17:10 | 04/14/15 20:36 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.11 | mg/kg | 0.0086 | 0.0043 | 1 | 04/22/15 15:15 | 04/23/15 10:31 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <43.4 | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 83-32-9 | |
| Acenaphthylene | <38.8 | ug/kg | 86.8 | 38.8 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 208-96-8 | |
| Anthracene | <45.0 | ug/kg | 86.8 | 45.0 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 120-12-7 | |
| Benzo(a)anthracene | 38.4J | ug/kg | 86.8 | 30.1 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 56-55-3 | |
| Benzo(a)pyrene | <31.0 | ug/kg | 86.8 | 31.0 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 50-32-8 | |
| Benzo(b)fluoranthene | 45.6J | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 205-99-2 | |
| Benzo(g,h,i)perylene | <33.0 | ug/kg | 86.8 | 33.0 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 191-24-2 | |
| Benzo(k)fluoranthene | <48.0 | ug/kg | 86.8 | 48.0 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 207-08-9 | |
| Chrysene | 123 | ug/kg | 86.8 | 40.1 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 218-01-9 | |
| Dibenz(a,h)anthracene | <31.8 | ug/kg | 86.8 | 31.8 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 53-70-3 | |
| Fluoranthene | 54.7J | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 206-44-0 | |
| Fluorene | 50.1J | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <33.0 | ug/kg | 86.8 | 33.0 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 193-39-5 | |
| 1-Methylnaphthalene | 764 | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 90-12-0 | |
| 2-Methylnaphthalene | 1460 | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 91-57-6 | |
| Naphthalene | 943 | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 91-20-3 | |
| Phenanthrene | 332 | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 85-01-8 | |
| Pyrene | 73.5J | ug/kg | 86.8 | 43.4 | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 72 | % | 39-130 | | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 321-60-8 | |
| Terphenyl-d14 (S) | 61 | % | 37-130 | | 4 | 04/14/15 09:43 | 04/14/15 17:08 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | 1130 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 71-43-2 | |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 74-83-9 | W |
| n-Butylbenzene | 281 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 104-51-8 | |
| sec-Butylbenzene | 85.1 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 135-98-8 | |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 0-2.5 **Lab ID: 40112959005** Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 108-20-3 | W |
| Ethylbenzene | 1180 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | 78.2 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 98-82-8 | |
| p-Isopropyltoluene | 43.6J | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 99-87-6 | |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 1634-04-4 | W |
| Naphthalene | 1230 | ug/kg | 325 | 52.1 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 91-20-3 | |
| n-Propylbenzene | 411 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 103-65-1 | |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 127-18-4 | W |
| Toluene | 1670 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 0-2.5 **Lab ID: 40112959005** Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 1280 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 334 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 108-67-8 | |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 75-01-4 | W |
| m&p-Xylene | 2150 | ug/kg | 156 | 65.1 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 179601-23-1 | |
| o-Xylene | 678 | ug/kg | 78.1 | 32.5 | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 100 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 22:36 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 23.2 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-4 0-2.5 **Lab ID: 40112959006** Collected: 04/07/15 07:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 15.2 | mg/kg | 3.1 | 0.98 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7440-38-2 | |
| Barium | 742 | mg/kg | 0.77 | 0.18 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7440-39-3 | |
| Cadmium | 1.9 | mg/kg | 0.77 | 0.10 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7440-43-9 | |
| Chromium | 21.8 | mg/kg | 0.77 | 0.30 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7440-47-3 | |
| Lead | 1030 | mg/kg | 1.5 | 0.66 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7439-92-1 | |
| Selenium | <1.2 | mg/kg | 3.1 | 1.2 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7782-49-2 | |
| Silver | 0.48J | mg/kg | 1.5 | 0.43 | 1 | 04/13/15 17:10 | 04/14/15 20:38 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.48 | mg/kg | 0.082 | 0.041 | 10 | 04/22/15 15:15 | 04/23/15 11:27 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <13.5 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 83-32-9 | |
| Acenaphthylene | 43.0 | ug/kg | 27.0 | 12.1 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 208-96-8 | |
| Anthracene | 36.3 | ug/kg | 27.0 | 14.0 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 120-12-7 | |
| Benzo(a)anthracene | 117 | ug/kg | 27.0 | 9.4 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 56-55-3 | |
| Benzo(a)pyrene | 117 | ug/kg | 27.0 | 9.7 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 50-32-8 | |
| Benzo(b)fluoranthene | 106 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 205-99-2 | |
| Benzo(g,h,i)perylene | 73.7 | ug/kg | 27.0 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 191-24-2 | |
| Benzo(k)fluoranthene | 113 | ug/kg | 27.0 | 14.9 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 207-08-9 | |
| Chrysene | 141 | ug/kg | 27.0 | 12.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 218-01-9 | |
| Dibenz(a,h)anthracene | 27.7 | ug/kg | 27.0 | 9.9 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 53-70-3 | |
| Fluoranthene | 186 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 206-44-0 | |
| Fluorene | <13.5 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 67.6 | ug/kg | 27.0 | 10.3 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 193-39-5 | |
| 1-Methylnaphthalene | <13.5 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 90-12-0 | |
| 2-Methylnaphthalene | 13.9J | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 91-57-6 | |
| Naphthalene | 18.6J | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 91-20-3 | |
| Phenanthrene | 76.4 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 85-01-8 | |
| Pyrene | 162 | ug/kg | 27.0 | 13.5 | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 54 | % | 39-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 321-60-8 | |
| Terphenyl-d14 (S) | 45 | % | 37-130 | | 1 | 04/14/15 09:43 | 04/14/15 17:25 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 71-43-2 | W |
| Bromobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 108-86-1 | W |
| Bromochloromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 74-97-5 | W |
| Bromodichloromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-27-4 | W |
| Bromoform | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-25-2 | W |
| Bromomethane | <101 | ug/kg | 362 | 101 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 74-83-9 | W |
| n-Butylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 104-51-8 | W |
| sec-Butylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 135-98-8 | W |
| tert-Butylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 98-06-6 | W |
| Carbon tetrachloride | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-4 0-2.5 Lab ID: 40112959006 Collected: 04/07/15 07:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Chlorobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 108-90-7 | W |
| Chloroethane | <97.1 | ug/kg | 362 | 97.1 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-00-3 | W |
| Chloroform | <67.3 | ug/kg | 362 | 67.3 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 67-66-3 | W |
| Chloromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 74-87-3 | W |
| 2-Chlorotoluene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 95-49-8 | W |
| 4-Chlorotoluene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <132 | ug/kg | 362 | 132 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 96-12-8 | W |
| Dibromochloromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 106-93-4 | W |
| Dibromomethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 106-46-7 | W |
| Dichlorodifluoromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-71-8 | W |
| 1,1-Dichloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-34-3 | W |
| 1,2-Dichloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 107-06-2 | W |
| 1,1-Dichloroethene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 156-60-5 | W |
| 1,2-Dichloropropane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 78-87-5 | W |
| 1,3-Dichloropropane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 142-28-9 | W |
| 2,2-Dichloropropane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 594-20-7 | W |
| 1,1-Dichloropropene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 10061-02-6 | W |
| Diisopropyl ether | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 108-20-3 | W |
| Ethylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 98-82-8 | W |
| p-Isopropyltoluene | 95.7J | ug/kg | 141 | 58.7 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 99-87-6 | |
| Methylene Chloride | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-09-2 | W |
| Methyl-tert-butyl ether | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 1634-04-4 | W |
| Naphthalene | <58.0 | ug/kg | 362 | 58.0 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 91-20-3 | W |
| n-Propylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 103-65-1 | W |
| Styrene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 79-34-5 | W |
| Tetrachloroethene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 127-18-4 | W |
| Toluene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <68.9 | ug/kg | 362 | 68.9 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 79-00-5 | W |
| Trichloroethene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 79-01-6 | W |
| Trichlorofluoromethane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-4 0-2.5 **Lab ID: 40112959006** Collected: 04/07/15 07:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 108-67-8 | W |
| Vinyl chloride | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 75-01-4 | W |
| m&p-Xylene | <72.5 | ug/kg | 174 | 72.5 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 179601-23-1 | W |
| o-Xylene | <36.2 | ug/kg | 87.0 | 36.2 | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 81 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 1868-53-7 | |
| Toluene-d8 (S) | 83 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 76 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 22:59 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 38.3 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-3 2.5-5 **Lab ID:** 40112959007 Collected: 04/07/15 07:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | <2.8 | mg/kg | 8.8 | 2.8 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7440-38-2 | |
| Barium | 79.1 | mg/kg | 2.2 | 0.52 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7440-39-3 | |
| Cadmium | 0.40J | mg/kg | 2.2 | 0.29 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7440-43-9 | |
| Chromium | 3.2 | mg/kg | 2.2 | 0.85 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7440-47-3 | |
| Lead | 16.7 | mg/kg | 4.4 | 1.9 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7439-92-1 | |
| Selenium | <3.4 | mg/kg | 8.8 | 3.4 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7782-49-2 | |
| Silver | <1.2 | mg/kg | 4.4 | 1.2 | 1 | 04/13/15 17:10 | 04/14/15 20:41 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.067 | mg/kg | 0.030 | 0.015 | 1 | 04/22/15 15:15 | 04/23/15 10:41 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <76.0 | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 83-32-9 | |
| Acenaphthylene | <68.0 | ug/kg | 152 | 68.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 208-96-8 | |
| Anthracene | <78.8 | ug/kg | 152 | 78.8 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 120-12-7 | |
| Benzo(a)anthracene | 55.0J | ug/kg | 152 | 52.7 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 56-55-3 | |
| Benzo(a)pyrene | <54.4 | ug/kg | 152 | 54.4 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 50-32-8 | |
| Benzo(b)fluoranthene | <76.0 | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 205-99-2 | |
| Benzo(g,h,i)perylene | <57.9 | ug/kg | 152 | 57.9 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 191-24-2 | |
| Benzo(k)fluoranthene | <84.2 | ug/kg | 152 | 84.2 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 207-08-9 | |
| Chrysene | 97.4J | ug/kg | 152 | 70.3 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 218-01-9 | |
| Dibenz(a,h)anthracene | <55.8 | ug/kg | 152 | 55.8 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 53-70-3 | |
| Fluoranthene | 118J | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 206-44-0 | |
| Fluorene | <76.0 | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <57.8 | ug/kg | 152 | 57.8 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 193-39-5 | |
| 1-Methylnaphthalene | <76.0 | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 90-12-0 | |
| 2-Methylnaphthalene | <76.0 | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 91-57-6 | |
| Naphthalene | 133J | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 91-20-3 | |
| Phenanthrene | 124J | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 85-01-8 | |
| Pyrene | 125J | ug/kg | 152 | 76.0 | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 65 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 321-60-8 | |
| Terphenyl-d14 (S) | 57 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/15/15 12:53 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-3 2.5-5 Lab ID: 40112959007 Collected: 04/07/15 07:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-3 2.5-5 **Lab ID: 40112959007** Collected: 04/07/15 07:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 101 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 89 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 23:22 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 78.1 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 2.5-5 Lab ID: 40112959008 Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 17.8 | mg/kg | 2.7 | 0.86 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7440-38-2 | |
| Barium | 439 | mg/kg | 0.67 | 0.16 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7440-39-3 | |
| Cadmium | 0.88 | mg/kg | 0.67 | 0.089 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7440-43-9 | |
| Chromium | 24.1 | mg/kg | 0.67 | 0.26 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7440-47-3 | |
| Lead | 1370 | mg/kg | 1.3 | 0.58 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7439-92-1 | |
| Selenium | 1.6J | mg/kg | 2.7 | 1.0 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7782-49-2 | |
| Silver | <0.37 | mg/kg | 1.3 | 0.37 | 1 | 04/13/15 17:10 | 04/14/15 20:43 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.41 | mg/kg | 0.010 | 0.0051 | 1 | 04/22/15 15:15 | 04/23/15 10:43 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <26.9 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 83-32-9 | |
| Acenaphthylene | 178 | ug/kg | 53.8 | 24.1 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 208-96-8 | |
| Anthracene | 127 | ug/kg | 53.8 | 27.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 120-12-7 | |
| Benzo(a)anthracene | 244 | ug/kg | 53.8 | 18.6 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 56-55-3 | |
| Benzo(a)pyrene | 321 | ug/kg | 53.8 | 19.2 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 50-32-8 | |
| Benzo(b)fluoranthene | 294 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 205-99-2 | |
| Benzo(g,h,i)perylene | 195 | ug/kg | 53.8 | 20.5 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 191-24-2 | |
| Benzo(k)fluoranthene | 311 | ug/kg | 53.8 | 29.8 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 207-08-9 | |
| Chrysene | 357 | ug/kg | 53.8 | 24.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 218-01-9 | |
| Dibenz(a,h)anthracene | 62.4 | ug/kg | 53.8 | 19.7 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 53-70-3 | |
| Fluoranthene | 431 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 206-44-0 | |
| Fluorene | 30.4J | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 179 | ug/kg | 53.8 | 20.4 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 193-39-5 | |
| 1-Methylnaphthalene | 1060 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 90-12-0 | |
| 2-Methylnaphthalene | 904 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 91-57-6 | |
| Naphthalene | 928 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 91-20-3 | |
| Phenanthrene | 252 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 85-01-8 | |
| Pyrene | 440 | ug/kg | 53.8 | 26.9 | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 59 | % | 39-130 | | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 321-60-8 | |
| Terphenyl-d14 (S) | 55 | % | 37-130 | | 2 | 04/15/15 08:29 | 04/15/15 17:12 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 71-43-2 | W |
| Bromobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 108-86-1 | W |
| Bromochloromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 74-97-5 | W |
| Bromodichloromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-27-4 | W |
| Bromoform | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-25-2 | W |
| Bromomethane | <360 | ug/kg | 1290 | 360 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 74-83-9 | W |
| n-Butylbenzene | 1650 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 104-51-8 | |
| sec-Butylbenzene | 675 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 135-98-8 | |
| tert-Butylbenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 98-06-6 | W |
| Carbon tetrachloride | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 2.5-5 Lab ID: 40112959008 Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|-----|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 108-90-7 | W |
| Chloroethane | <345 | ug/kg | 1290 | 345 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-00-3 | W |
| Chloroform | <239 | ug/kg | 1290 | 239 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 67-66-3 | W |
| Chloromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 74-87-3 | W |
| 2-Chlorotoluene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 95-49-8 | W |
| 4-Chlorotoluene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <470 | ug/kg | 1290 | 470 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 96-12-8 | W |
| Dibromochloromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 106-93-4 | W |
| Dibromomethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 106-46-7 | W |
| Dichlorodifluoromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-71-8 | W |
| 1,1-Dichloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-34-3 | W |
| 1,2-Dichloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 107-06-2 | W |
| 1,1-Dichloroethene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 156-60-5 | W |
| 1,2-Dichloropropane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 78-87-5 | W |
| 1,3-Dichloropropane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 142-28-9 | W |
| 2,2-Dichloropropane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 594-20-7 | W |
| 1,1-Dichloropropene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 10061-02-6 | W |
| Diisopropyl ether | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 108-20-3 | W |
| Ethylbenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | 906 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 98-82-8 | |
| p-Isopropyltoluene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 99-87-6 | W |
| Methylene Chloride | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-09-2 | W |
| Methyl-tert-butyl ether | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 1634-04-4 | W |
| Naphthalene | 453J | ug/kg | 2080 | 333 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 91-20-3 | |
| n-Propylbenzene | 3880 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 103-65-1 | |
| Styrene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 79-34-5 | W |
| Tetrachloroethene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 127-18-4 | W |
| Toluene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <245 | ug/kg | 1290 | 245 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 79-00-5 | W |
| Trichloroethene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 79-01-6 | W |
| Trichlorofluoromethane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-3 2.5-5 **Lab ID: 40112959008** Collected: 04/06/15 17:35 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 37400 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 8830 | ug/kg | 499 | 208 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 108-67-8 | |
| Vinyl chloride | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 75-01-4 | W |
| m&p-Xylene | 497J | ug/kg | 998 | 416 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 179601-23-1 | |
| o-Xylene | <129 | ug/kg | 309 | 129 | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 79 | % | 49-157 | | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 1868-53-7 | |
| Toluene-d8 (S) | 69 | % | 61-148 | | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 86 | % | 53-134 | | 5 | 04/14/15 07:00 | 04/15/15 03:36 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 38.0 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-5 2.5-5 **Lab ID: 40112959009** Collected: 04/07/15 09:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 11096-82-5 | |
| PCB, Total | <40.9 | ug/kg | 81.7 | 40.9 | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 71 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 877-09-8 | |
| Decachlorobiphenyl (S) | 61 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:21 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 4.5 | mg/kg | 2.8 | 0.89 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7440-38-2 | |
| Barium | 63.1 | mg/kg | 0.70 | 0.17 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7440-39-3 | |
| Cadmium | <0.092 | mg/kg | 0.70 | 0.092 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7440-43-9 | |
| Chromium | 9.8 | mg/kg | 0.70 | 0.27 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7440-47-3 | |
| Lead | 38.9 | mg/kg | 1.4 | 0.60 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7439-92-1 | |
| Selenium | <1.1 | mg/kg | 2.8 | 1.1 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7782-49-2 | |
| Silver | <0.39 | mg/kg | 1.4 | 0.39 | 1 | 04/13/15 17:10 | 04/14/15 20:45 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.12 | mg/kg | 0.010 | 0.0052 | 1 | 04/22/15 15:15 | 04/23/15 10:45 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 1080 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 83-32-9 | |
| Acenaphthylene | 989 | ug/kg | 545 | 244 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 208-96-8 | |
| Anthracene | 2860 | ug/kg | 545 | 282 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 120-12-7 | |
| Benzo(a)anthracene | 4280 | ug/kg | 545 | 189 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 56-55-3 | |
| Benzo(a)pyrene | 4070 | ug/kg | 545 | 195 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 50-32-8 | |
| Benzo(b)fluoranthene | 3490 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 205-99-2 | |
| Benzo(g,h,i)perylene | 1560 | ug/kg | 545 | 207 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 191-24-2 | |
| Benzo(k)fluoranthene | 3430 | ug/kg | 545 | 301 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 207-08-9 | |
| Chrysene | 4730 | ug/kg | 545 | 252 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 218-01-9 | |
| Dibenz(a,h)anthracene | 669 | ug/kg | 545 | 200 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 53-70-3 | |
| Fluoranthene | 8160 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 206-44-0 | |
| Fluorene | 1650 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 1720 | ug/kg | 545 | 207 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 193-39-5 | |
| 1-Methylnaphthalene | 994 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 90-12-0 | |
| 2-Methylnaphthalene | 1280 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 91-57-6 | |
| Naphthalene | 1410 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 91-20-3 | |
| Phenanthrene | 6950 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 85-01-8 | |
| Pyrene | 7600 | ug/kg | 545 | 272 | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 56 | % | 39-130 | | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-5 2.5-5 **Lab ID:** 40112959009 Collected: 04/07/15 09:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-----------------|--|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 61 | % | 37-130 | | 20 | 04/15/15 08:29 | 04/15/15 16:38 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Benzene | 50.8J | ug/kg | 98.0 | 40.9 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 71-43-2 | |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-09-2 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-5 2.5-5 **Lab ID:** 40112959009 Collected: 04/07/15 09:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 1634-04-4 | W |
| Naphthalene | 266J | ug/kg | 409 | 65.4 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 127-18-4 | W |
| Toluene | 151 | ug/kg | 98.0 | 40.9 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 44.6J | ug/kg | 98.0 | 40.9 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 75-01-4 | W |
| m&p-Xylene | 82.0J | ug/kg | 196 | 81.7 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 179601-23-1 | |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 23:45 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 38.8 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-6 2.5-5 **Lab ID: 40112959010** Collected: 04/07/15 09:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 11096-82-5 | |
| PCB, Total | <28.3 | ug/kg | 56.6 | 28.3 | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 68 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 877-09-8 | |
| Decachlorobiphenyl (S) | 57 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:38 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 4.7 | mg/kg | 2.1 | 0.65 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7440-38-2 | |
| Barium | 31.8 | mg/kg | 0.51 | 0.12 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7440-39-3 | |
| Cadmium | 0.072J | mg/kg | 0.51 | 0.068 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7440-43-9 | |
| Chromium | 5.2 | mg/kg | 0.51 | 0.20 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7440-47-3 | |
| Lead | 17.0 | mg/kg | 1.0 | 0.44 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7439-92-1 | |
| Selenium | <0.79 | mg/kg | 2.1 | 0.79 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7782-49-2 | |
| Silver | <0.29 | mg/kg | 1.0 | 0.29 | 1 | 04/13/15 17:10 | 04/14/15 20:48 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.087 | mg/kg | 0.0075 | 0.0037 | 1 | 04/22/15 15:15 | 04/23/15 10:48 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 3740 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 83-32-9 | |
| Acenaphthylene | 1440 | ug/kg | 755 | 338 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 208-96-8 | |
| Anthracene | 3480 | ug/kg | 755 | 391 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 120-12-7 | |
| Benzo(a)anthracene | 3260 | ug/kg | 755 | 262 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 56-55-3 | |
| Benzo(a)pyrene | 3740 | ug/kg | 755 | 270 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 50-32-8 | |
| Benzo(b)fluoranthene | 2780 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 205-99-2 | |
| Benzo(g,h,i)perylene | 1710 | ug/kg | 755 | 287 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 191-24-2 | |
| Benzo(k)fluoranthene | 3130 | ug/kg | 755 | 418 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 207-08-9 | |
| Chrysene | 3480 | ug/kg | 755 | 349 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 218-01-9 | |
| Dibenz(a,h)anthracene | 602J | ug/kg | 755 | 277 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 53-70-3 | |
| Fluoranthene | 7250 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 206-44-0 | |
| Fluorene | 4350 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 1640 | ug/kg | 755 | 287 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 193-39-5 | |
| 1-Methylnaphthalene | 1730 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 90-12-0 | |
| 2-Methylnaphthalene | 515J | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 91-57-6 | |
| Naphthalene | 806 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 91-20-3 | |
| Phenanthrene | 10300 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 85-01-8 | |
| Pyrene | 7140 | ug/kg | 755 | 377 | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 58 | % | 39-130 | | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-6 2.5-5 **Lab ID: 40112959010** Collected: 04/07/15 09:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 64 | % | 37-130 | | 40 | 04/15/15 08:29 | 04/15/15 16:55 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-09-2 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-6 2.5-5 **Lab ID: 40112959010** Collected: 04/07/15 09:25 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 1634-04-4 | W |
| Naphthalene | 1130 | ug/kg | 283 | 45.3 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 127-18-4 | W |
| Toluene | 98.6 | ug/kg | 67.9 | 28.3 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 64.9J | ug/kg | 67.9 | 28.3 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 29.4J | ug/kg | 67.9 | 28.3 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 108-67-8 | |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 75-01-4 | W |
| m&p-Xylene | 102J | ug/kg | 136 | 56.6 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 179601-23-1 | |
| o-Xylene | 65.4J | ug/kg | 67.9 | 28.3 | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 112 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 1868-53-7 | |
| Toluene-d8 (S) | 106 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 100 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 00:08 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 11.7 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-7 0-2.5 Lab ID: 40112959011 Collected: 04/07/15 09:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <30.8 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | 324 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 11096-82-5 | |
| PCB, Total | 324 | ug/kg | 61.5 | 30.8 | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 68 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 877-09-8 | |
| Decachlorobiphenyl (S) | 58 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 19:46 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 2.2 | mg/kg | 2.1 | 0.66 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7440-38-2 | |
| Barium | 32.5 | mg/kg | 0.52 | 0.12 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7440-39-3 | |
| Cadmium | 0.28J | mg/kg | 0.52 | 0.069 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7440-43-9 | |
| Chromium | 10.0 | mg/kg | 0.52 | 0.20 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7440-47-3 | |
| Lead | 127 | mg/kg | 1.0 | 0.45 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7439-92-1 | |
| Selenium | <0.80 | mg/kg | 2.1 | 0.80 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7782-49-2 | |
| Silver | <0.29 | mg/kg | 1.0 | 0.29 | 1 | 04/13/15 17:10 | 04/14/15 20:50 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.073 | mg/kg | 0.0065 | 0.0033 | 1 | 04/22/15 15:15 | 04/23/15 10:50 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 23.0J | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 83-32-9 | |
| Acenaphthylene | 30.2J | ug/kg | 41.0 | 18.4 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 208-96-8 | |
| Anthracene | 70.5 | ug/kg | 41.0 | 21.3 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 120-12-7 | |
| Benzo(a)anthracene | 88.0 | ug/kg | 41.0 | 14.2 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 56-55-3 | |
| Benzo(a)pyrene | 88.8 | ug/kg | 41.0 | 14.7 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 50-32-8 | |
| Benzo(b)fluoranthene | 80.1 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 205-99-2 | |
| Benzo(g,h,i)perylene | 272 | ug/kg | 41.0 | 15.6 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 191-24-2 | |
| Benzo(k)fluoranthene | 78.2 | ug/kg | 41.0 | 22.7 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 207-08-9 | |
| Chrysene | 117 | ug/kg | 41.0 | 19.0 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 218-01-9 | |
| Dibenz(a,h)anthracene | 31.2J | ug/kg | 41.0 | 15.0 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 53-70-3 | |
| Fluoranthene | 174 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 206-44-0 | |
| Fluorene | 29.4J | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 85.5 | ug/kg | 41.0 | 15.6 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 193-39-5 | |
| 1-Methylnaphthalene | 168 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 90-12-0 | |
| 2-Methylnaphthalene | 312 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 91-57-6 | |
| Naphthalene | 171 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 91-20-3 | |
| Phenanthrene | 214 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 85-01-8 | |
| Pyrene | 193 | ug/kg | 41.0 | 20.5 | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 84 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-7 0-2.5 **Lab ID: 40112959011** Collected: 04/07/15 09:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 89 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/15/15 16:20 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 108-20-3 | W |
| Ethylbenzene | 36.2J | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 99-87-6 | W |
| Methylene Chloride | 66.7J | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-09-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-7 0-2.5 **Lab ID: 40112959011** Collected: 04/07/15 09:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 1634-04-4 | W |
| Naphthalene | 78.5J | ug/kg | 308 | 49.3 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 79-34-5 | W |
| Tetrachloroethene | 130 | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 127-18-4 | |
| Toluene | 160 | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 79-00-5 | W |
| Trichloroethene | 109 | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 79-01-6 | |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 52.2J | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 75-01-4 | W |
| m&p-Xylene | 140J | ug/kg | 148 | 61.5 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 179601-23-1 | |
| o-Xylene | 53.6J | ug/kg | 73.9 | 30.8 | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 106 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 94 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 00:32 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 18.8 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-4 2.5-5 **Lab ID: 40112959012** Collected: 04/07/15 10:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|------------|------|
| 8082 GCS PCB | | | | | | | | | |
| Analytical Method: EPA 8082 Preparation Method: EPA 3541 | | | | | | | | | |
| PCB-1016 (Aroclor 1016) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 11096-82-5 | |
| PCB, Total | <41.1 | ug/kg | 82.3 | 41.1 | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 1336-36-3 | |
| Surrogates | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 69 | % | 46-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 877-09-8 | |
| Decachlorobiphenyl (S) | 60 | % | 39-130 | | 1 | 04/13/15 10:25 | 04/13/15 20:56 | 2051-24-3 | |
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 4.4 | mg/kg | 3.0 | 0.96 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7440-38-2 | |
| Barium | 71.2 | mg/kg | 0.75 | 0.18 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7440-39-3 | |
| Cadmium | 0.21J | mg/kg | 0.75 | 0.10 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7440-43-9 | |
| Chromium | 4.9 | mg/kg | 0.75 | 0.29 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7440-47-3 | |
| Lead | 111 | mg/kg | 1.5 | 0.65 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7439-92-1 | |
| Selenium | <1.2 | mg/kg | 3.0 | 1.2 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7782-49-2 | |
| Silver | <0.42 | mg/kg | 1.5 | 0.42 | 1 | 04/13/15 17:10 | 04/14/15 20:52 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.014 | mg/kg | 0.011 | 0.0054 | 1 | 04/22/15 15:15 | 04/23/15 10:52 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 22.6J | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 83-32-9 | |
| Acenaphthylene | 94.3 | ug/kg | 27.4 | 12.3 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 208-96-8 | |
| Anthracene | 113 | ug/kg | 27.4 | 14.2 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 120-12-7 | |
| Benzo(a)anthracene | 251 | ug/kg | 27.4 | 9.5 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 56-55-3 | |
| Benzo(a)pyrene | 268 | ug/kg | 27.4 | 9.8 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 50-32-8 | |
| Benzo(b)fluoranthene | 241 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 205-99-2 | |
| Benzo(g,h,i)perylene | 131 | ug/kg | 27.4 | 10.4 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 191-24-2 | |
| Benzo(k)fluoranthene | 230 | ug/kg | 27.4 | 15.2 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 207-08-9 | |
| Chrysene | 335 | ug/kg | 27.4 | 12.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 218-01-9 | |
| Dibenz(a,h)anthracene | 63.0 | ug/kg | 27.4 | 10.1 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 53-70-3 | |
| Fluoranthene | 464 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 206-44-0 | |
| Fluorene | 45.9 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 125 | ug/kg | 27.4 | 10.4 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 193-39-5 | |
| 1-Methylnaphthalene | 224 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 90-12-0 | |
| 2-Methylnaphthalene | 290 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 91-57-6 | |
| Naphthalene | 223 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 91-20-3 | |
| Phenanthrene | 409 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 85-01-8 | |
| Pyrene | 422 | ug/kg | 27.4 | 13.7 | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 58 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 321-60-8 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-4 2.5-5 **Lab ID: 40112959012** Collected: 04/07/15 10:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-----------------|--|--------|------|----|----------------|----------------|------------|------|
| 8270 MSSV PAH by SIM | | Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | |
| Surrogates | | | | | | | | | |
| Terphenyl-d14 (S) | 54 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/15/15 16:03 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Benzene | 75.9J | ug/kg | 109 | 45.2 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 71-43-2 | |
| Bromobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 108-86-1 | W |
| Bromochloromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 74-97-5 | W |
| Bromodichloromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-27-4 | W |
| Bromoform | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-25-2 | W |
| Bromomethane | <76.8 | ug/kg | 275 | 76.8 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 74-83-9 | W |
| n-Butylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 104-51-8 | W |
| sec-Butylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 135-98-8 | W |
| tert-Butylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 98-06-6 | W |
| Carbon tetrachloride | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 56-23-5 | W |
| Chlorobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 108-90-7 | W |
| Chloroethane | <73.6 | ug/kg | 275 | 73.6 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-00-3 | W |
| Chloroform | <51.0 | ug/kg | 275 | 51.0 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 67-66-3 | W |
| Chloromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 74-87-3 | W |
| 2-Chlorotoluene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 95-49-8 | W |
| 4-Chlorotoluene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <100 | ug/kg | 275 | 100 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 96-12-8 | W |
| Dibromochloromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 106-93-4 | W |
| Dibromomethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 106-46-7 | W |
| Dichlorodifluoromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-71-8 | W |
| 1,1-Dichloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-34-3 | W |
| 1,2-Dichloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 107-06-2 | W |
| 1,1-Dichloroethene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 156-60-5 | W |
| 1,2-Dichloropropane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 78-87-5 | W |
| 1,3-Dichloropropane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 142-28-9 | W |
| 2,2-Dichloropropane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 594-20-7 | W |
| 1,1-Dichloropropene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 10061-02-6 | W |
| Diisopropyl ether | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 108-20-3 | W |
| Ethylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 98-82-8 | W |
| p-Isopropyltoluene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 99-87-6 | W |
| Methylene Chloride | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-09-2 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: PZ-4 2.5-5 **Lab ID: 40112959012** Collected: 04/07/15 10:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|-------------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Methyl-tert-butyl ether | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 1634-04-4 | W |
| Naphthalene | <44.0 | ug/kg | 275 | 44.0 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 91-20-3 | W |
| n-Propylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 103-65-1 | W |
| Styrene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 79-34-5 | W |
| Tetrachloroethene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 127-18-4 | W |
| Toluene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <52.3 | ug/kg | 275 | 52.3 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 79-00-5 | W |
| Trichloroethene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 79-01-6 | W |
| Trichlorofluoromethane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 108-67-8 | W |
| Vinyl chloride | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 75-01-4 | W |
| m&p-Xylene | <54.9 | ug/kg | 132 | 54.9 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 179601-23-1 | W |
| o-Xylene | <27.5 | ug/kg | 65.9 | 27.5 | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 87 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 1868-53-7 | |
| Toluene-d8 (S) | 81 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 73 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 00:55 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 39.2 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-8 0-2.5 **Lab ID: 40112959013** Collected: 04/07/15 13:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 3.0 | mg/kg | 2.2 | 0.69 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7440-38-2 | |
| Barium | 83.6 | mg/kg | 0.54 | 0.13 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7440-39-3 | |
| Cadmium | 0.17J | mg/kg | 0.54 | 0.072 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7440-43-9 | |
| Chromium | 7.9 | mg/kg | 0.54 | 0.21 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7440-47-3 | |
| Lead | 30.0 | mg/kg | 1.1 | 0.47 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7439-92-1 | |
| Selenium | <0.83 | mg/kg | 2.2 | 0.83 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7782-49-2 | |
| Silver | <0.30 | mg/kg | 1.1 | 0.30 | 1 | 04/13/15 17:10 | 04/14/15 20:55 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.069 | mg/kg | 0.0078 | 0.0039 | 1 | 04/22/15 15:15 | 04/23/15 10:55 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <20.5 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 83-32-9 | |
| Acenaphthylene | 194 | ug/kg | 41.0 | 18.3 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 208-96-8 | |
| Anthracene | 184 | ug/kg | 41.0 | 21.2 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 120-12-7 | |
| Benzo(a)anthracene | 498 | ug/kg | 41.0 | 14.2 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 56-55-3 | |
| Benzo(a)pyrene | 577 | ug/kg | 41.0 | 14.6 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 50-32-8 | |
| Benzo(b)fluoranthene | 467 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 205-99-2 | |
| Benzo(g,h,i)perylene | 396 | ug/kg | 41.0 | 15.6 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 191-24-2 | |
| Benzo(k)fluoranthene | 469 | ug/kg | 41.0 | 22.7 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 207-08-9 | |
| Chrysene | 618 | ug/kg | 41.0 | 18.9 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 218-01-9 | |
| Dibenz(a,h)anthracene | 123 | ug/kg | 41.0 | 15.0 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 53-70-3 | |
| Fluoranthene | 789 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 206-44-0 | |
| Fluorene | 39.6J | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 330 | ug/kg | 41.0 | 15.6 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 193-39-5 | |
| 1-Methylnaphthalene | 85.7 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 90-12-0 | |
| 2-Methylnaphthalene | 180 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 91-57-6 | |
| Naphthalene | 128 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 91-20-3 | |
| Phenanthrene | 436 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 85-01-8 | |
| Pyrene | 745 | ug/kg | 41.0 | 20.5 | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 51 | % | 39-130 | | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 321-60-8 | |
| Terphenyl-d14 (S) | 47 | % | 37-130 | | 2 | 04/15/15 08:29 | 04/16/15 16:34 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-8 0-2.5 **Lab ID: 40112959013** Collected: 04/07/15 13:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-8 0-2.5 **Lab ID: 40112959013** Collected: 04/07/15 13:50 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 90 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 1868-53-7 | |
| Toluene-d8 (S) | 89 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 81 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 01:18 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 18.6 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:37 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-5 0-2.5 **Lab ID: 40112959014** Collected: 04/07/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 21.1 | mg/kg | 2.2 | 0.71 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7440-38-2 | |
| Barium | 55.5 | mg/kg | 0.56 | 0.13 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7440-39-3 | |
| Cadmium | <0.074 | mg/kg | 0.56 | 0.074 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7440-43-9 | |
| Chromium | 6.8 | mg/kg | 0.56 | 0.22 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7440-47-3 | |
| Lead | 20.6 | mg/kg | 1.1 | 0.48 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7439-92-1 | |
| Selenium | <0.86 | mg/kg | 2.2 | 0.86 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7782-49-2 | |
| Silver | <0.31 | mg/kg | 1.1 | 0.31 | 1 | 04/13/15 17:10 | 04/14/15 21:02 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.023 | mg/kg | 0.0070 | 0.0035 | 1 | 04/22/15 15:15 | 04/23/15 10:57 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <50.4 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 83-32-9 | |
| Acenaphthylene | 155 | ug/kg | 101 | 45.1 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 208-96-8 | |
| Anthracene | 204 | ug/kg | 101 | 52.3 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 120-12-7 | |
| Benzo(a)anthracene | 366 | ug/kg | 101 | 35.0 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 56-55-3 | |
| Benzo(a)pyrene | 454 | ug/kg | 101 | 36.1 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 50-32-8 | |
| Benzo(b)fluoranthene | 488 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 205-99-2 | |
| Benzo(g,h,i)perylene | 218 | ug/kg | 101 | 38.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 191-24-2 | |
| Benzo(k)fluoranthene | 291 | ug/kg | 101 | 55.8 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 207-08-9 | |
| Chrysene | 722 | ug/kg | 101 | 46.6 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 218-01-9 | |
| Dibenz(a,h)anthracene | 74.8J | ug/kg | 101 | 37.0 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 53-70-3 | |
| Fluoranthene | 378 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 206-44-0 | |
| Fluorene | 54.3J | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 176 | ug/kg | 101 | 38.3 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 193-39-5 | |
| 1-Methylnaphthalene | 733 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 90-12-0 | |
| 2-Methylnaphthalene | 1780 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 91-57-6 | |
| Naphthalene | 805 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 91-20-3 | |
| Phenanthrene | 411 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 85-01-8 | |
| Pyrene | 868 | ug/kg | 101 | 50.4 | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 77 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 321-60-8 | |
| Terphenyl-d14 (S) | 79 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/16/15 17:44 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-5 0-2.5 Lab ID: 40112959014 Collected: 04/07/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 1634-04-4 | W |
| Naphthalene | 99.4J | ug/kg | 303 | 48.5 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 127-18-4 | W |
| Toluene | 39.5J | ug/kg | 72.6 | 30.3 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-5 0-2.5 **Lab ID: 40112959014** Collected: 04/07/15 14:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 44.5J | ug/kg | 72.6 | 30.3 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 90 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 01:41 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 17.4 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-6 0-2.5 **Lab ID: 40112959015** Collected: 04/07/15 15:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 3.2 | mg/kg | 2.2 | 0.69 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7440-38-2 | |
| Barium | 54.8 | mg/kg | 0.54 | 0.13 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7440-39-3 | |
| Cadmium | 0.35J | mg/kg | 0.54 | 0.072 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7440-43-9 | |
| Chromium | 14.3 | mg/kg | 0.54 | 0.21 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7440-47-3 | |
| Lead | 95.7 | mg/kg | 1.1 | 0.47 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7439-92-1 | |
| Selenium | <0.84 | mg/kg | 2.2 | 0.84 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7782-49-2 | |
| Silver | <0.30 | mg/kg | 1.1 | 0.30 | 1 | 04/13/15 17:10 | 04/14/15 21:04 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.015 | mg/kg | 0.0066 | 0.0033 | 1 | 04/22/15 15:15 | 04/23/15 10:59 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | 38.8J | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 83-32-9 | |
| Acenaphthylene | 189 | ug/kg | 39.4 | 17.6 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 208-96-8 | |
| Anthracene | 192 | ug/kg | 39.4 | 20.4 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 120-12-7 | |
| Benzo(a)anthracene | 301 | ug/kg | 39.4 | 13.6 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 56-55-3 | |
| Benzo(a)pyrene | 378 | ug/kg | 39.4 | 14.1 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 50-32-8 | |
| Benzo(b)fluoranthene | 361 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 205-99-2 | |
| Benzo(g,h,i)perylene | 281 | ug/kg | 39.4 | 15.0 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 191-24-2 | |
| Benzo(k)fluoranthene | 267 | ug/kg | 39.4 | 21.8 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 207-08-9 | |
| Chrysene | 435 | ug/kg | 39.4 | 18.2 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 218-01-9 | |
| Dibenz(a,h)anthracene | 83.0 | ug/kg | 39.4 | 14.4 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 53-70-3 | |
| Fluoranthene | 541 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 206-44-0 | |
| Fluorene | 61.1 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 213 | ug/kg | 39.4 | 15.0 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 193-39-5 | |
| 1-Methylnaphthalene | 245 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 90-12-0 | |
| 2-Methylnaphthalene | 475 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 91-57-6 | |
| Naphthalene | 289 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 91-20-3 | |
| Phenanthrene | 526 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 85-01-8 | |
| Pyrene | 621 | ug/kg | 39.4 | 19.7 | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 60 | % | 39-130 | | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 321-60-8 | |
| Terphenyl-d14 (S) | 51 | % | 37-130 | | 2 | 04/15/15 08:29 | 04/16/15 16:52 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: **MW-6 0-2.5** Lab ID: **40112959015** Collected: 04/07/15 15:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-35-4 | W |
| cis-1,2-Dichloroethene | 180 | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 108-20-3 | W |
| Ethylbenzene | 43.7J | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 1634-04-4 | W |
| Naphthalene | 192J | ug/kg | 295 | 47.3 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 79-34-5 | W |
| Tetrachloroethene | 53.2J | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 127-18-4 | |
| Toluene | 222 | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 79-00-5 | W |
| Trichloroethene | 237 | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 79-01-6 | |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MW-6 0-2.5 **Lab ID: 40112959015** Collected: 04/07/15 15:10 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 74.0 | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 72.5 | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 108-67-8 | |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 75-01-4 | W |
| m&p-Xylene | 167 | ug/kg | 142 | 59.0 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 179601-23-1 | |
| o-Xylene | 66.4J | ug/kg | 70.8 | 29.5 | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 103 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 91 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 03:13 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 15.3 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-9 0-2.5 **Lab ID: 40112959016** Collected: 04/07/15 16:00 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 2.9 | mg/kg | 2.3 | 0.73 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7440-38-2 | |
| Barium | 77.1 | mg/kg | 0.57 | 0.14 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7440-39-3 | |
| Cadmium | 0.28J | mg/kg | 0.57 | 0.075 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7440-43-9 | |
| Chromium | 10.6 | mg/kg | 0.57 | 0.22 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7440-47-3 | |
| Lead | 177 | mg/kg | 1.1 | 0.49 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7439-92-1 | |
| Selenium | <0.88 | mg/kg | 2.3 | 0.88 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7782-49-2 | |
| Silver | <0.32 | mg/kg | 1.1 | 0.32 | 1 | 04/13/15 17:10 | 04/14/15 21:06 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.019 | mg/kg | 0.0067 | 0.0033 | 1 | 04/22/15 15:15 | 04/23/15 11:06 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <9.9 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 83-32-9 | |
| Acenaphthylene | 44.0 | ug/kg | 19.9 | 8.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 208-96-8 | |
| Anthracene | 45.2 | ug/kg | 19.9 | 10.3 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 120-12-7 | |
| Benzo(a)anthracene | 90.4 | ug/kg | 19.9 | 6.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 56-55-3 | |
| Benzo(a)pyrene | 107 | ug/kg | 19.9 | 7.1 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 50-32-8 | |
| Benzo(b)fluoranthene | 107 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 205-99-2 | |
| Benzo(g,h,i)perylene | 75.0 | ug/kg | 19.9 | 7.6 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 191-24-2 | |
| Benzo(k)fluoranthene | 90.7 | ug/kg | 19.9 | 11.0 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 207-08-9 | |
| Chrysene | 128 | ug/kg | 19.9 | 9.2 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 218-01-9 | |
| Dibenz(a,h)anthracene | 24.2 | ug/kg | 19.9 | 7.3 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 53-70-3 | |
| Fluoranthene | 150 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 206-44-0 | |
| Fluorene | 13.9J | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 61.4 | ug/kg | 19.9 | 7.6 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 193-39-5 | |
| 1-Methylnaphthalene | 161 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 90-12-0 | |
| 2-Methylnaphthalene | 242 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 91-57-6 | |
| Naphthalene | 154 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 91-20-3 | |
| Phenanthrene | 181 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 85-01-8 | |
| Pyrene | 156 | ug/kg | 19.9 | 9.9 | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 59 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 321-60-8 | |
| Terphenyl-d14 (S) | 59 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/16/15 17:26 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-9 0-2.5 **Lab ID: 40112959016** Collected: 04/07/15 16:00 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-69-4 | W |

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-9 0-2.5 **Lab ID: 40112959016** Collected: 04/07/15 16:00 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 105 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 02:04 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 16.2 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-10 0-2.5 **Lab ID: 40112959017** Collected: 04/07/15 16:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 3.2 | mg/kg | 2.3 | 0.72 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7440-38-2 | |
| Barium | 39.9 | mg/kg | 0.57 | 0.13 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7440-39-3 | |
| Cadmium | 0.16J | mg/kg | 0.57 | 0.075 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7440-43-9 | |
| Chromium | 8.7 | mg/kg | 0.57 | 0.22 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7440-47-3 | |
| Lead | 49.3 | mg/kg | 1.1 | 0.49 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7439-92-1 | |
| Selenium | <0.87 | mg/kg | 2.3 | 0.87 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7782-49-2 | |
| Silver | <0.31 | mg/kg | 1.1 | 0.31 | 1 | 04/13/15 17:10 | 04/14/15 21:09 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.099 | mg/kg | 0.0079 | 0.0039 | 1 | 04/22/15 15:15 | 04/23/15 11:08 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <20.6 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 83-32-9 | |
| Acenaphthylene | 324 | ug/kg | 41.3 | 18.5 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 208-96-8 | |
| Anthracene | 269 | ug/kg | 41.3 | 21.4 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 120-12-7 | |
| Benzo(a)anthracene | 666 | ug/kg | 41.3 | 14.3 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 56-55-3 | |
| Benzo(a)pyrene | 831 | ug/kg | 41.3 | 14.8 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 50-32-8 | |
| Benzo(b)fluoranthene | 676 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 205-99-2 | |
| Benzo(g,h,i)perylene | 781 | ug/kg | 41.3 | 15.7 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 191-24-2 | |
| Benzo(k)fluoranthene | 673 | ug/kg | 41.3 | 22.8 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 207-08-9 | |
| Chrysene | 923 | ug/kg | 41.3 | 19.1 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 218-01-9 | |
| Dibenz(a,h)anthracene | 202 | ug/kg | 41.3 | 15.1 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 53-70-3 | |
| Fluoranthene | 902 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 206-44-0 | |
| Fluorene | 41.0J | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 536 | ug/kg | 41.3 | 15.7 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 193-39-5 | |
| 1-Methylnaphthalene | 156 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 90-12-0 | |
| 2-Methylnaphthalene | 261 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 91-57-6 | |
| Naphthalene | 269 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 91-20-3 | |
| Phenanthrene | 606 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 85-01-8 | |
| Pyrene | 1160 | ug/kg | 41.3 | 20.6 | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 81 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 321-60-8 | |
| Terphenyl-d14 (S) | 66 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/15/15 13:10 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-10 0-2.5 Lab ID: 40112959017 Collected: 04/07/15 16:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 1634-04-4 | W |
| Naphthalene | 67.4J | ug/kg | 310 | 49.6 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 91-20-3 | |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 127-18-4 | W |
| Toluene | 42.9J | ug/kg | 74.3 | 31.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-10 0-2.5 **Lab ID: 40112959017** Collected: 04/07/15 16:15 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|-------------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 1868-53-7 | |
| Toluene-d8 (S) | 102 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 95 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 02:27 | 460-00-4 | |
| Percent Moisture | | Analytical Method: ASTM D2974-87 | | | | | | | |
| Percent Moisture | 19.3 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-11 0-2.5 **Lab ID: 40112959018** Collected: 04/07/15 16:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| 6010 MET ICP | | | | | | | | | |
| Analytical Method: EPA 6010 Preparation Method: EPA 3050 | | | | | | | | | |
| Arsenic | 14.4 | mg/kg | 2.6 | 0.84 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7440-38-2 | |
| Barium | 318 | mg/kg | 0.66 | 0.16 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7440-39-3 | |
| Cadmium | 1.3 | mg/kg | 0.66 | 0.087 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7440-43-9 | |
| Chromium | 15.7 | mg/kg | 0.66 | 0.26 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7440-47-3 | |
| Lead | 566 | mg/kg | 1.3 | 0.57 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7439-92-1 | |
| Selenium | 1.3J | mg/kg | 2.6 | 1.0 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7782-49-2 | |
| Silver | <0.37 | mg/kg | 1.3 | 0.37 | 1 | 04/13/15 17:10 | 04/14/15 21:11 | 7440-22-4 | |
| 7471 Mercury | | | | | | | | | |
| Analytical Method: EPA 7471 Preparation Method: EPA 7471 | | | | | | | | | |
| Mercury | 0.62 | mg/kg | 0.087 | 0.043 | 10 | 04/22/15 15:15 | 04/23/15 11:29 | 7439-97-6 | |
| 8270 MSSV PAH by SIM | | | | | | | | | |
| Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546 | | | | | | | | | |
| Acenaphthene | <11.6 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 83-32-9 | |
| Acenaphthylene | <10.4 | ug/kg | 23.2 | 10.4 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 208-96-8 | |
| Anthracene | <12.0 | ug/kg | 23.2 | 12.0 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 120-12-7 | |
| Benzo(a)anthracene | 18.6J | ug/kg | 23.2 | 8.1 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 56-55-3 | |
| Benzo(a)pyrene | 19.5J | ug/kg | 23.2 | 8.3 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 50-32-8 | |
| Benzo(b)fluoranthene | 19.9J | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 205-99-2 | |
| Benzo(g,h,i)perylene | 15.5J | ug/kg | 23.2 | 8.9 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 191-24-2 | |
| Benzo(k)fluoranthene | 18.5J | ug/kg | 23.2 | 12.9 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 207-08-9 | |
| Chrysene | 29.6 | ug/kg | 23.2 | 10.7 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 218-01-9 | |
| Dibenz(a,h)anthracene | <8.5 | ug/kg | 23.2 | 8.5 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 53-70-3 | |
| Fluoranthene | 27.4 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 206-44-0 | |
| Fluorene | <11.6 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 12.8J | ug/kg | 23.2 | 8.8 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 193-39-5 | |
| 1-Methylnaphthalene | 64.8 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 90-12-0 | |
| 2-Methylnaphthalene | 80.5 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 91-57-6 | |
| Naphthalene | 64.3 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 91-20-3 | |
| Phenanthrene | 47.4 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 85-01-8 | |
| Pyrene | 24.5 | ug/kg | 23.2 | 11.6 | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 50 | % | 39-130 | | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 321-60-8 | |
| Terphenyl-d14 (S) | 43 | % | 37-130 | | 1 | 04/15/15 08:29 | 04/15/15 13:28 | 1718-51-0 | |
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | 292 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 71-43-2 | |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 74-83-9 | W |
| n-Butylbenzene | 101 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 104-51-8 | |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 56-23-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-11 0-2.5 Lab ID: 40112959018 Collected: 04/07/15 16:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 108-20-3 | W |
| Ethylbenzene | 50.9J | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | 42.3J | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 98-82-8 | |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 91-20-3 | W |
| n-Propylbenzene | 101 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 103-65-1 | |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 100-42-5 | W |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 630-20-6 | W |
| 1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 127-18-4 | W |
| Toluene | 231 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-69-4 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: GP-11 0-2.5 **Lab ID: 40112959018** Collected: 04/07/15 16:30 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | 478 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 445 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 108-67-8 | |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 75-01-4 | W |
| m&p-Xylene | 550 | ug/kg | 167 | 69.7 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 179601-23-1 | |
| o-Xylene | 108 | ug/kg | 83.6 | 34.9 | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 90 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 1868-53-7 | |
| Toluene-d8 (S) | 83 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 76 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/15/15 02:50 | 460-00-4 | |
| Percent Moisture | | | | | | | | | |
| Analytical Method: ASTM D2974-87 | | | | | | | | | |
| Percent Moisture | 28.3 | % | 0.10 | 0.10 | 1 | | 04/22/15 07:38 | | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MEOH B **Lab ID: 40112959019** Collected: 04/07/15 00:00 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|------|------|----|----------------|----------------|------------|------|
| 8260 MSV Med Level Normal List | | | | | | | | | |
| Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | | | |
| Benzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 71-43-2 | W |
| Bromobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 108-86-1 | W |
| Bromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 74-97-5 | W |
| Bromodichloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-27-4 | W |
| Bromoform | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-25-2 | W |
| Bromomethane | <69.9 | ug/kg | 250 | 69.9 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 74-83-9 | W |
| n-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 104-51-8 | W |
| sec-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 135-98-8 | W |
| tert-Butylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 98-06-6 | W |
| Carbon tetrachloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 56-23-5 | W |
| Chlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 108-90-7 | W |
| Chloroethane | <67.0 | ug/kg | 250 | 67.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-00-3 | W |
| Chloroform | <46.4 | ug/kg | 250 | 46.4 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 67-66-3 | W |
| Chloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 74-87-3 | W |
| 2-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 95-49-8 | W |
| 4-Chlorotoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 106-43-4 | W |
| 1,2-Dibromo-3-chloropropane | <91.2 | ug/kg | 250 | 91.2 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 96-12-8 | W |
| Dibromochloromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 124-48-1 | W |
| 1,2-Dibromoethane (EDB) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 106-93-4 | W |
| Dibromomethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 74-95-3 | W |
| 1,2-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 95-50-1 | W |
| 1,3-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 541-73-1 | W |
| 1,4-Dichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 106-46-7 | W |
| Dichlorodifluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-71-8 | W |
| 1,1-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-34-3 | W |
| 1,2-Dichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 107-06-2 | W |
| 1,1-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-35-4 | W |
| cis-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 156-59-2 | W |
| trans-1,2-Dichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 156-60-5 | W |
| 1,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 78-87-5 | W |
| 1,3-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 142-28-9 | W |
| 2,2-Dichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 594-20-7 | W |
| 1,1-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 563-58-6 | W |
| cis-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 10061-01-5 | W |
| trans-1,3-Dichloropropene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 10061-02-6 | W |
| Diisopropyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 108-20-3 | W |
| Ethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 100-41-4 | W |
| Hexachloro-1,3-butadiene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 87-68-3 | W |
| Isopropylbenzene (Cumene) | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 98-82-8 | W |
| p-Isopropyltoluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 99-87-6 | W |
| Methylene Chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-09-2 | W |
| Methyl-tert-butyl ether | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 1634-04-4 | W |
| Naphthalene | <40.0 | ug/kg | 250 | 40.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 91-20-3 | W |
| n-Propylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 103-65-1 | W |
| Styrene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 100-42-5 | W |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

Sample: MEOH B **Lab ID: 40112959019** Collected: 04/07/15 00:00 Received: 04/10/15 09:45 Matrix: Solid

Results reported on a "wet-weight" basis

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|--|--------|------|----|----------------|----------------|-------------|------|
| 8260 MSV Med Level Normal List | | Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 630-20-6 | W |
| 1,1,1,2,2-Tetrachloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 79-34-5 | W |
| Tetrachloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 127-18-4 | W |
| Toluene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 108-88-3 | W |
| 1,2,3-Trichlorobenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 87-61-6 | W |
| 1,2,4-Trichlorobenzene | <47.6 | ug/kg | 250 | 47.6 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 120-82-1 | W |
| 1,1,1-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 71-55-6 | W |
| 1,1,2-Trichloroethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 79-00-5 | W |
| Trichloroethene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 79-01-6 | W |
| Trichlorofluoromethane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-69-4 | W |
| 1,2,3-Trichloropropane | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 96-18-4 | W |
| 1,2,4-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 95-63-6 | W |
| 1,3,5-Trimethylbenzene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 108-67-8 | W |
| Vinyl chloride | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 75-01-4 | W |
| m&p-Xylene | <50.0 | ug/kg | 120 | 50.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 179601-23-1 | W |
| o-Xylene | <25.0 | ug/kg | 60.0 | 25.0 | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 95-47-6 | W |
| Surrogates | | | | | | | | | |
| Dibromofluoromethane (S) | 104 | % | 49-157 | | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 1868-53-7 | |
| Toluene-d8 (S) | 95 | % | 61-148 | | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 2037-26-5 | |
| 4-Bromofluorobenzene (S) | 93 | % | 53-134 | | 1 | 04/14/15 07:00 | 04/14/15 20:41 | 460-00-4 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

QC Batch: MERP/4876 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

METHOD BLANK: 1145562 Matrix: Solid
Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Mercury | mg/kg | <0.0033 | 0.0067 | 04/23/15 10:11 | |

LABORATORY CONTROL SAMPLE: 1145563

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/kg | .17 | 0.18 | 107 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145564 1145565

| Parameter | Units | 40113436001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Mercury | mg/kg | 0.039 | .19 | .19 | 0.23 | 0.24 | 101 | 106 | 85-115 | 4 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

QC Batch: MPRP/11713 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

METHOD BLANK: 1140660 Matrix: Solid
Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Arsenic | mg/kg | <0.64 | 2.0 | 04/14/15 20:13 | |
| Barium | mg/kg | <0.12 | 0.50 | 04/14/15 20:13 | |
| Cadmium | mg/kg | <0.066 | 0.50 | 04/14/15 20:13 | |
| Chromium | mg/kg | <0.19 | 0.50 | 04/14/15 20:13 | |
| Lead | mg/kg | <0.43 | 1.0 | 04/14/15 20:13 | |
| Selenium | mg/kg | <0.77 | 2.0 | 04/14/15 20:13 | |
| Silver | mg/kg | <0.28 | 1.0 | 04/14/15 20:13 | |

LABORATORY CONTROL SAMPLE: 1140661

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic | mg/kg | 50 | 49.9 | 100 | 80-120 | |
| Barium | mg/kg | 50 | 50.3 | 101 | 80-120 | |
| Cadmium | mg/kg | 50 | 50.2 | 100 | 80-120 | |
| Chromium | mg/kg | 50 | 50.5 | 101 | 80-120 | |
| Lead | mg/kg | 50 | 51.6 | 103 | 80-120 | |
| Selenium | mg/kg | 50 | 50.3 | 101 | 80-120 | |
| Silver | mg/kg | 25 | 24.6 | 98 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1140662 1140663

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Qual | |
|-----------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|---------|------|------------|
| | | 40112959004 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | MSD Result |
| Arsenic | mg/kg | 1.9J | 54.8 | 54.7 | 54.3 | 54.1 | 96 | 95 | 75-125 | 0 | 20 |
| Barium | mg/kg | 15.4 | 54.8 | 54.7 | 71.1 | 70.3 | 102 | 101 | 75-125 | 1 | 20 |
| Cadmium | mg/kg | 0.097J | 54.8 | 54.7 | 53.4 | 53.3 | 97 | 97 | 75-125 | 0 | 20 |
| Chromium | mg/kg | 6.2 | 54.8 | 54.7 | 59.8 | 59.7 | 98 | 98 | 75-125 | 0 | 20 |
| Lead | mg/kg | 11.0 | 54.8 | 54.7 | 66.0 | 64.9 | 100 | 99 | 75-125 | 2 | 20 |
| Selenium | mg/kg | <0.84 | 54.8 | 54.7 | 53.3 | 53.2 | 97 | 97 | 75-125 | 0 | 20 |
| Silver | mg/kg | <0.30 | 27.4 | 27.4 | 26.4 | 26.0 | 96 | 95 | 75-125 | 2 | 20 |

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

METHOD BLANK: 1140777

Matrix: Solid

Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018, 40112959019

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Dichlorodifluoromethane | ug/kg | <12.3 | 50.0 | 04/14/15 18:45 | |
| Diisopropyl ether | ug/kg | <17.7 | 50.0 | 04/14/15 18:45 | |
| Ethylbenzene | ug/kg | <12.4 | 50.0 | 04/14/15 18:45 | |
| Hexachloro-1,3-butadiene | ug/kg | <24.5 | 50.0 | 04/14/15 18:45 | |
| Isopropylbenzene (Cumene) | ug/kg | <12.6 | 50.0 | 04/14/15 18:45 | |
| m&p-Xylene | ug/kg | <34.4 | 100 | 04/14/15 18:45 | |
| Methyl-tert-butyl ether | ug/kg | <12.7 | 50.0 | 04/14/15 18:45 | |
| Methylene Chloride | ug/kg | <16.2 | 50.0 | 04/14/15 18:45 | |
| n-Butylbenzene | ug/kg | <10.5 | 50.0 | 04/14/15 18:45 | |
| n-Propylbenzene | ug/kg | <11.6 | 50.0 | 04/14/15 18:45 | |
| Naphthalene | ug/kg | <40.0 | 250 | 04/14/15 18:45 | |
| o-Xylene | ug/kg | <14.0 | 50.0 | 04/14/15 18:45 | |
| p-Isopropyltoluene | ug/kg | <12.0 | 50.0 | 04/14/15 18:45 | |
| sec-Butylbenzene | ug/kg | <11.9 | 50.0 | 04/14/15 18:45 | |
| Styrene | ug/kg | <9.0 | 50.0 | 04/14/15 18:45 | |
| tert-Butylbenzene | ug/kg | <9.5 | 50.0 | 04/14/15 18:45 | |
| Tetrachloroethene | ug/kg | <12.9 | 50.0 | 04/14/15 18:45 | |
| Toluene | ug/kg | <11.2 | 50.0 | 04/14/15 18:45 | |
| trans-1,2-Dichloroethene | ug/kg | <16.5 | 50.0 | 04/14/15 18:45 | |
| trans-1,3-Dichloropropene | ug/kg | <14.4 | 50.0 | 04/14/15 18:45 | |
| Trichloroethene | ug/kg | <23.6 | 50.0 | 04/14/15 18:45 | |
| Trichlorofluoromethane | ug/kg | <24.7 | 50.0 | 04/14/15 18:45 | |
| Vinyl chloride | ug/kg | <21.1 | 50.0 | 04/14/15 18:45 | |
| 4-Bromofluorobenzene (S) | % | 91 | 53-134 | 04/14/15 18:45 | |
| Dibromofluoromethane (S) | % | 105 | 49-157 | 04/14/15 18:45 | |
| Toluene-d8 (S) | % | 99 | 61-148 | 04/14/15 18:45 | |

LABORATORY CONTROL SAMPLE & LCSD: 1140778

1140779

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,1,1-Trichloroethane | ug/kg | 2500 | 3070 | 2990 | 123 | 120 | 70-130 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/kg | 2500 | 2930 | 2960 | 117 | 119 | 70-130 | 1 | 20 | |
| 1,1,2-Trichloroethane | ug/kg | 2500 | 2820 | 2650 | 113 | 106 | 70-130 | 6 | 20 | |
| 1,1-Dichloroethane | ug/kg | 2500 | 2620 | 2740 | 105 | 110 | 70-130 | 5 | 20 | |
| 1,1-Dichloroethene | ug/kg | 2500 | 2840 | 2810 | 114 | 112 | 70-132 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | ug/kg | 2500 | 2650 | 2600 | 106 | 104 | 70-130 | 2 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/kg | 2500 | 2770 | 2940 | 111 | 117 | 45-150 | 6 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/kg | 2500 | 2640 | 2670 | 105 | 107 | 70-130 | 1 | 20 | |
| 1,2-Dichlorobenzene | ug/kg | 2500 | 2560 | 2520 | 102 | 101 | 70-130 | 1 | 20 | |
| 1,2-Dichloroethane | ug/kg | 2500 | 2780 | 2750 | 111 | 110 | 70-134 | 1 | 20 | |
| 1,2-Dichloropropane | ug/kg | 2500 | 2640 | 2660 | 106 | 106 | 70-130 | 1 | 20 | |
| 1,3-Dichlorobenzene | ug/kg | 2500 | 2490 | 2440 | 100 | 98 | 70-130 | 2 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| LABORATORY CONTROL SAMPLE & LCSD: | | 1140778 | 1140779 | | | | | | | |
|-----------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
| 1,4-Dichlorobenzene | ug/kg | 2500 | 2470 | 2450 | 99 | 98 | 70-130 | 1 | 20 | |
| Benzene | ug/kg | 2500 | 2880 | 2810 | 115 | 112 | 70-130 | 2 | 20 | |
| Bromodichloromethane | ug/kg | 2500 | 2840 | 2820 | 114 | 113 | 70-130 | 1 | 20 | |
| Bromoform | ug/kg | 2500 | 2580 | 2570 | 103 | 103 | 48-130 | 0 | 20 | |
| Bromomethane | ug/kg | 2500 | 2930 | 2690 | 117 | 108 | 70-169 | 8 | 20 | |
| Carbon tetrachloride | ug/kg | 2500 | 2780 | 2760 | 111 | 111 | 67-130 | 0 | 20 | |
| Chlorobenzene | ug/kg | 2500 | 2610 | 2550 | 104 | 102 | 70-130 | 2 | 20 | |
| Chloroethane | ug/kg | 2500 | 2650 | 2520 | 106 | 101 | 70-191 | 5 | 20 | |
| Chloroform | ug/kg | 2500 | 2900 | 2840 | 116 | 114 | 70-130 | 2 | 20 | |
| Chloromethane | ug/kg | 2500 | 2440 | 2260 | 98 | 90 | 52-132 | 8 | 20 | |
| cis-1,2-Dichloroethene | ug/kg | 2500 | 2680 | 2580 | 107 | 103 | 70-130 | 4 | 20 | |
| cis-1,3-Dichloropropene | ug/kg | 2500 | 2620 | 2630 | 105 | 105 | 70-130 | 0 | 20 | |
| Dibromochloromethane | ug/kg | 2500 | 2680 | 2770 | 107 | 111 | 65-130 | 3 | 20 | |
| Dichlorodifluoromethane | ug/kg | 2500 | 2750 | 2590 | 110 | 103 | 12-150 | 6 | 20 | |
| Ethylbenzene | ug/kg | 2500 | 2650 | 2660 | 106 | 106 | 70-130 | 0 | 20 | |
| Isopropylbenzene (Cumene) | ug/kg | 2500 | 2690 | 2710 | 108 | 108 | 70-130 | 1 | 20 | |
| m&p-Xylene | ug/kg | 5000 | 5390 | 5350 | 108 | 107 | 70-130 | 1 | 20 | |
| Methyl-tert-butyl ether | ug/kg | 2500 | 2870 | 2850 | 115 | 114 | 70-130 | 1 | 20 | |
| Methylene Chloride | ug/kg | 2500 | 3130 | 3040 | 125 | 122 | 70-131 | 3 | 20 | |
| o-Xylene | ug/kg | 2500 | 2720 | 2720 | 109 | 109 | 70-130 | 0 | 20 | |
| Styrene | ug/kg | 2500 | 2760 | 2740 | 110 | 109 | 70-130 | 1 | 20 | |
| Tetrachloroethene | ug/kg | 2500 | 2450 | 2400 | 98 | 96 | 70-130 | 2 | 20 | |
| Toluene | ug/kg | 2500 | 2650 | 2630 | 106 | 105 | 70-130 | 1 | 20 | |
| trans-1,2-Dichloroethene | ug/kg | 2500 | 3000 | 2870 | 120 | 115 | 69-130 | 4 | 20 | |
| trans-1,3-Dichloropropene | ug/kg | 2500 | 2470 | 2600 | 99 | 104 | 65-130 | 5 | 20 | |
| Trichloroethene | ug/kg | 2500 | 2750 | 2750 | 110 | 110 | 70-130 | 0 | 20 | |
| Trichlorofluoromethane | ug/kg | 2500 | 3140 | 2840 | 126 | 114 | 50-150 | 10 | 20 | |
| Vinyl chloride | ug/kg | 2500 | 2990 | 2810 | 120 | 112 | 67-134 | 6 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | 99 | 100 | 53-134 | | | |
| Dibromofluoromethane (S) | % | | | | 102 | 101 | 49-157 | | | |
| Toluene-d8 (S) | % | | | | 95 | 98 | 61-148 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

QC Batch: OEXT/26208 Analysis Method: EPA 8082
 QC Batch Method: EPA 3541 Analysis Description: 8082 GCS PCB
 Associated Lab Samples: 40112959001, 40112959002, 40112959009, 40112959010, 40112959011, 40112959012

METHOD BLANK: 1140447 Matrix: Solid
 Associated Lab Samples: 40112959001, 40112959002, 40112959009, 40112959010, 40112959011, 40112959012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| PCB-1016 (Aroclor 1016) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <25.0 | 50.0 | 04/13/15 15:08 | |
| Decachlorobiphenyl (S) | % | 77 | 39-130 | 04/13/15 15:08 | |
| Tetrachloro-m-xylene (S) | % | 77 | 46-130 | 04/13/15 15:08 | |

LABORATORY CONTROL SAMPLE: 1140448

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| PCB-1016 (Aroclor 1016) | ug/kg | | <25.0 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <25.0 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <25.0 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | | <25.0 | | | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <25.0 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <25.0 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 500 | 374 | 75 | 63-130 | |
| Decachlorobiphenyl (S) | % | | | 78 | 39-130 | |
| Tetrachloro-m-xylene (S) | % | | | 78 | 46-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1140449 1140450

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|--------------------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 40112959002 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| PCB-1016 (Aroclor 1016) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1221 (Aroclor 1221) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1232 (Aroclor 1232) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1242 (Aroclor 1242) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1248 (Aroclor 1248) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1254 (Aroclor 1254) | ug/kg | <30.8 | | | <30.8 | <30.8 | | | | | 20 |
| PCB-1260 (Aroclor 1260) | ug/kg | <30.8 | 615 | 615 | 429 | 436 | 70 | 71 | 38-130 | 2 | 20 |
| Decachlorobiphenyl (S) | % | | | | | | 73 | 72 | 39-130 | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 73 | 75 | 46-130 | | |

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

QC Batch: OEXT/26220 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
 Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006

METHOD BLANK: 1140805 Matrix: Solid
 Associated Lab Samples: 40112959001, 40112959002, 40112959003, 40112959004, 40112959005, 40112959006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| 1-Methylnaphthalene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| 2-Methylnaphthalene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Acenaphthene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Acenaphthylene | ug/kg | <7.5 | 16.7 | 04/14/15 11:41 | |
| Anthracene | ug/kg | <8.6 | 16.7 | 04/14/15 11:41 | |
| Benzo(a)anthracene | ug/kg | <5.8 | 16.7 | 04/14/15 11:41 | |
| Benzo(a)pyrene | ug/kg | <6.0 | 16.7 | 04/14/15 11:41 | |
| Benzo(b)fluoranthene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Benzo(g,h,i)perylene | ug/kg | <6.3 | 16.7 | 04/14/15 11:41 | |
| Benzo(k)fluoranthene | ug/kg | <9.2 | 16.7 | 04/14/15 11:41 | |
| Chrysene | ug/kg | <7.7 | 16.7 | 04/14/15 11:41 | |
| Dibenz(a,h)anthracene | ug/kg | <6.1 | 16.7 | 04/14/15 11:41 | |
| Fluoranthene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Fluorene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | <6.3 | 16.7 | 04/14/15 11:41 | |
| Naphthalene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Phenanthrene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| Pyrene | ug/kg | <8.3 | 16.7 | 04/14/15 11:41 | |
| 2-Fluorobiphenyl (S) | % | 64 | 39-130 | 04/14/15 11:41 | |
| Terphenyl-d14 (S) | % | 70 | 37-130 | 04/14/15 11:41 | |

LABORATORY CONTROL SAMPLE: 1140806

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1-Methylnaphthalene | ug/kg | 333 | 265 | 80 | 53-130 | |
| 2-Methylnaphthalene | ug/kg | 333 | 255 | 77 | 52-130 | |
| Acenaphthene | ug/kg | 333 | 278 | 83 | 54-130 | |
| Acenaphthylene | ug/kg | 333 | 277 | 83 | 55-130 | |
| Anthracene | ug/kg | 333 | 290 | 87 | 64-130 | |
| Benzo(a)anthracene | ug/kg | 333 | 291 | 87 | 50-130 | |
| Benzo(a)pyrene | ug/kg | 333 | 305 | 91 | 46-130 | |
| Benzo(b)fluoranthene | ug/kg | 333 | 304 | 91 | 43-130 | |
| Benzo(g,h,i)perylene | ug/kg | 333 | 305 | 92 | 48-130 | |
| Benzo(k)fluoranthene | ug/kg | 333 | 301 | 90 | 55-130 | |
| Chrysene | ug/kg | 333 | 305 | 91 | 62-130 | |
| Dibenz(a,h)anthracene | ug/kg | 333 | 321 | 96 | 49-130 | |
| Fluoranthene | ug/kg | 333 | 276 | 83 | 57-130 | |
| Fluorene | ug/kg | 333 | 275 | 82 | 57-130 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | 333 | 325 | 98 | 50-130 | |
| Naphthalene | ug/kg | 333 | 256 | 77 | 48-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

LABORATORY CONTROL SAMPLE: 1140806

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------|-------|-------------|------------|-----------|--------------|------------|
| Phenanthrene | ug/kg | 333 | 280 | 84 | 51-130 | |
| Pyrene | ug/kg | 333 | 272 | 82 | 55-130 | |
| 2-Fluorobiphenyl (S) | % | | | 73 | 39-130 | |
| Terphenyl-d14 (S) | % | | | 77 | 37-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1140807 1140808

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | Max | | Qual | |
|------------------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|------------|-----|------|-----|
| | | 40112947014 Result | Spike Conc. | Spike Conc. | MS Result | | | | MSD Result | RPD | | RPD |
| 1-Methylnaphthalene | ug/kg | <10.5 | 418 | 418 | 334 | 222 | 79 | 52 | 50-130 | 40 | 30 | R1 |
| 2-Methylnaphthalene | ug/kg | <10.5 | 418 | 418 | 322 | 215 | 76 | 51 | 44-130 | 40 | 32 | R1 |
| Acenaphthene | ug/kg | <10.5 | 418 | 418 | 347 | 234 | 83 | 56 | 46-130 | 39 | 26 | R1 |
| Acenaphthylene | ug/kg | <9.4 | 418 | 418 | 343 | 230 | 82 | 55 | 49-130 | 39 | 23 | R1 |
| Anthracene | ug/kg | <10.8 | 418 | 418 | 340 | 234 | 81 | 56 | 52-130 | 37 | 28 | R1 |
| Benzo(a)anthracene | ug/kg | <7.2 | 418 | 418 | 321 | 228 | 76 | 54 | 34-130 | 34 | 36 | |
| Benzo(a)pyrene | ug/kg | <7.5 | 418 | 418 | 338 | 240 | 80 | 56 | 34-130 | 34 | 40 | |
| Benzo(b)fluoranthene | ug/kg | <10.5 | 418 | 418 | 355 | 240 | 84 | 56 | 22-130 | 39 | 40 | |
| Benzo(g,h,i)perylene | ug/kg | <8.0 | 418 | 418 | 329 | 233 | 78 | 55 | 24-130 | 34 | 35 | |
| Benzo(k)fluoranthene | ug/kg | <11.6 | 418 | 418 | 322 | 238 | 76 | 56 | 41-130 | 30 | 37 | |
| Chrysene | ug/kg | <9.7 | 418 | 418 | 346 | 239 | 81 | 56 | 49-130 | 36 | 33 | R1 |
| Dibenz(a,h)anthracene | ug/kg | <7.7 | 418 | 418 | 355 | 244 | 85 | 58 | 27-130 | 37 | 31 | R1 |
| Fluoranthene | ug/kg | <10.5 | 418 | 418 | 318 | 226 | 74 | 52 | 34-130 | 34 | 37 | |
| Fluorene | ug/kg | <10.5 | 418 | 418 | 336 | 227 | 80 | 54 | 45-130 | 39 | 25 | R1 |
| Indeno(1,2,3-cd)pyrene | ug/kg | <7.9 | 418 | 418 | 350 | 247 | 83 | 59 | 30-130 | 34 | 34 | |
| Naphthalene | ug/kg | <10.5 | 418 | 418 | 323 | 213 | 76 | 50 | 38-130 | 41 | 30 | R1 |
| Phenanthrene | ug/kg | <10.5 | 418 | 418 | 331 | 229 | 78 | 53 | 38-130 | 36 | 34 | R1 |
| Pyrene | ug/kg | <10.5 | 418 | 418 | 311 | 217 | 73 | 50 | 35-130 | 35 | 35 | |
| 2-Fluorobiphenyl (S) | % | | | | | | 71 | 46 | 39-130 | | | |
| Terphenyl-d14 (S) | % | | | | | | 67 | 44 | 37-130 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

QC Batch: OEXT/26234 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

METHOD BLANK: 1141374 Matrix: Solid
Associated Lab Samples: 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| 1-Methylnaphthalene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| 2-Methylnaphthalene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Acenaphthene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Acenaphthylene | ug/kg | <7.5 | 16.7 | 04/15/15 12:19 | |
| Anthracene | ug/kg | <8.6 | 16.7 | 04/15/15 12:19 | |
| Benzo(a)anthracene | ug/kg | <5.8 | 16.7 | 04/15/15 12:19 | |
| Benzo(a)pyrene | ug/kg | <6.0 | 16.7 | 04/15/15 12:19 | |
| Benzo(b)fluoranthene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Benzo(g,h,i)perylene | ug/kg | <6.3 | 16.7 | 04/15/15 12:19 | |
| Benzo(k)fluoranthene | ug/kg | <9.2 | 16.7 | 04/15/15 12:19 | |
| Chrysene | ug/kg | <7.7 | 16.7 | 04/15/15 12:19 | |
| Dibenz(a,h)anthracene | ug/kg | <6.1 | 16.7 | 04/15/15 12:19 | |
| Fluoranthene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Fluorene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Indeno(1,2,3-cd)pyrene | ug/kg | <6.3 | 16.7 | 04/15/15 12:19 | |
| Naphthalene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Phenanthrene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| Pyrene | ug/kg | <8.3 | 16.7 | 04/15/15 12:19 | |
| 2-Fluorobiphenyl (S) | % | 63 | 39-130 | 04/15/15 12:19 | |
| Terphenyl-d14 (S) | % | 68 | 37-130 | 04/15/15 12:19 | |

LABORATORY CONTROL SAMPLE: 1141375

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------|-------|-------------|------------|-----------|--------------|------------|
| 1-Methylnaphthalene | ug/kg | 333 | 261 | 78 | 53-130 | |
| 2-Methylnaphthalene | ug/kg | 333 | 249 | 75 | 52-130 | |
| Acenaphthene | ug/kg | 333 | 269 | 81 | 54-130 | |
| Acenaphthylene | ug/kg | 333 | 265 | 79 | 55-130 | |
| Anthracene | ug/kg | 333 | 278 | 83 | 64-130 | |
| Benzo(a)anthracene | ug/kg | 333 | 281 | 84 | 50-130 | |
| Benzo(a)pyrene | ug/kg | 333 | 289 | 87 | 46-130 | |
| Benzo(b)fluoranthene | ug/kg | 333 | 282 | 85 | 43-130 | |
| Benzo(g,h,i)perylene | ug/kg | 333 | 289 | 87 | 48-130 | |
| Benzo(k)fluoranthene | ug/kg | 333 | 302 | 91 | 55-130 | |
| Chrysene | ug/kg | 333 | 292 | 88 | 62-130 | |
| Dibenz(a,h)anthracene | ug/kg | 333 | 297 | 89 | 49-130 | |
| Fluoranthene | ug/kg | 333 | 263 | 79 | 57-130 | |
| Fluorene | ug/kg | 333 | 265 | 79 | 57-130 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

LABORATORY CONTROL SAMPLE: 1141375

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|------------------------|-------|-------------|------------|-----------|--------------|------------|
| Indeno(1,2,3-cd)pyrene | ug/kg | 333 | 304 | 91 | 50-130 | |
| Naphthalene | ug/kg | 333 | 248 | 74 | 48-130 | |
| Phenanthrene | ug/kg | 333 | 266 | 80 | 51-130 | |
| Pyrene | ug/kg | 333 | 264 | 79 | 55-130 | |
| 2-Fluorobiphenyl (S) | % | | | 71 | 39-130 | |
| Terphenyl-d14 (S) | % | | | 72 | 37-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1141376 1141377

| Parameter | Units | 40113023001 | | 1141376 | | 1141377 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qual |
|------------------------|-------|-------------|----------------|-----------------|-----------|------------|----|-------|--------|--------------|-------|---------|------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | | | | | | | |
| 1-Methylnaphthalene | ug/kg | <9.3 | 371 | 371 | 306 | 284 | 80 | 74 | 50-130 | 7 | 30 | | |
| 2-Methylnaphthalene | ug/kg | <9.3 | 371 | 371 | 296 | 274 | 78 | 72 | 44-130 | 8 | 32 | | |
| Acenaphthene | ug/kg | 11.8J | 371 | 371 | 312 | 283 | 81 | 73 | 46-130 | 10 | 26 | | |
| Acenaphthylene | ug/kg | 64.0 | 371 | 371 | 328 | 333 | 71 | 73 | 49-130 | 1 | 23 | | |
| Anthracene | ug/kg | 81.0 | 371 | 371 | 328 | 347 | 67 | 72 | 52-130 | 6 | 28 | | |
| Benzo(a)anthracene | ug/kg | 210 | 371 | 371 | 385 | 430 | 47 | 59 | 34-130 | 11 | 36 | | |
| Benzo(a)pyrene | ug/kg | 269 | 371 | 371 | 428 | 461 | 43 | 52 | 34-130 | 7 | 40 | | |
| Benzo(b)fluoranthene | ug/kg | 227 | 371 | 371 | 453 | 454 | 61 | 61 | 22-130 | 0 | 40 | | |
| Benzo(g,h,i)perylene | ug/kg | 202 | 371 | 371 | 368 | 329 | 45 | 34 | 24-130 | 11 | 35 | | |
| Benzo(k)fluoranthene | ug/kg | 255 | 371 | 371 | 380 | 437 | 33 | 49 | 41-130 | 14 | 37 M1 | | |
| Chrysene | ug/kg | 282 | 371 | 371 | 424 | 487 | 38 | 55 | 49-130 | 14 | 33 M1 | | |
| Dibenz(a,h)anthracene | ug/kg | 58.6 | 371 | 371 | 343 | 313 | 77 | 69 | 27-130 | 9 | 31 | | |
| Fluoranthene | ug/kg | 471 | 371 | 371 | 489 | 606 | 5 | 36 | 34-130 | 21 | 37 M1 | | |
| Fluorene | ug/kg | 20.9 | 371 | 371 | 307 | 299 | 77 | 75 | 45-130 | 3 | 25 | | |
| Indeno(1,2,3-cd)pyrene | ug/kg | 175 | 371 | 371 | 384 | 359 | 56 | 49 | 30-130 | 7 | 34 | | |
| Naphthalene | ug/kg | 21.6 | 371 | 371 | 291 | 269 | 73 | 67 | 38-130 | 8 | 30 | | |
| Phenanthrene | ug/kg | 316 | 371 | 371 | 405 | 528 | 24 | 57 | 38-130 | 26 | 34 M1 | | |
| Pyrene | ug/kg | 456 | 371 | 371 | 480 | 572 | 7 | 31 | 35-130 | 17 | 35 M1 | | |
| 2-Fluorobiphenyl (S) | % | | | | | | 64 | 59 | 39-130 | | | | |
| Terphenyl-d14 (S) | % | | | | | | 60 | 57 | 37-130 | | | | |

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

QC Batch: PMST/11071

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40112959001, 40112959002

SAMPLE DUPLICATE: 1145081

| Parameter | Units | 40113505001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 12.8 | 13.7 | 6 | 10 | |

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QUALITY CONTROL DATA

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| | | | |
|-------------------------|--|-----------------------|-----------------------------|
| QC Batch: | PMST/11072 | Analysis Method: | ASTM D2974-87 |
| QC Batch Method: | ASTM D2974-87 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 40112959003, 40112959004, 40112959005, 40112959006, 40112959007, 40112959008, 40112959009, 40112959010, 40112959011, 40112959012, 40112959013, 40112959014, 40112959015, 40112959016, 40112959017, 40112959018 | | |

SAMPLE DUPLICATE: 1145097

| Parameter | Units | 40112965001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|-----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 7.3 | 7.4 | 1 | 10 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above LOD.
J - Estimated concentration at or above the LOD and below the LOQ.
LOD - Limit of Detection adjusted for dilution factor and percent moisture.
LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/28058
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1 RPD value was outside control limits.
W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15-0558.00 TWO RIVERS
Pace Project No.: 40112959

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|------------|-------------------|------------------|
| 40112959001 | PZ-1 2.5-5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959002 | PZ-2 2.5-5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959009 | GP-5 2.5-5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959010 | GP-6 2.5-5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959011 | GP-7 0-2.5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959012 | PZ-4 2.5-5 | EPA 3541 | OEXT/26208 | EPA 8082 | GCSV/12776 |
| 40112959001 | PZ-1 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959002 | PZ-2 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959003 | GP-1 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959004 | GP-2 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959005 | GP-3 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959006 | GP-4 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959007 | MW-3 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959008 | GP-3 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959009 | GP-5 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959010 | GP-6 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959011 | GP-7 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959012 | PZ-4 2.5-5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959013 | GP-8 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959014 | MW-5 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959015 | MW-6 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959016 | GP-9 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959017 | GP-10 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959018 | GP-11 0-2.5 | EPA 3050 | MPRP/11713 | EPA 6010 | ICP/10409 |
| 40112959001 | PZ-1 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959002 | PZ-2 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959003 | GP-1 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959004 | GP-2 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959005 | GP-3 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959006 | GP-4 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959007 | MW-3 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959008 | GP-3 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959009 | GP-5 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959010 | GP-6 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959011 | GP-7 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959012 | PZ-4 2.5-5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959013 | GP-8 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959014 | MW-5 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959015 | MW-6 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959016 | GP-9 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959017 | GP-10 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959018 | GP-11 0-2.5 | EPA 7471 | MERP/4876 | EPA 7471 | MERC/6639 |
| 40112959001 | PZ-1 2.5-5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |
| 40112959002 | PZ-2 2.5-5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |
| 40112959003 | GP-1 2.5-5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |
| 40112959004 | GP-2 0-2.5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |
| 40112959005 | GP-3 0-2.5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|------------|-------------------|------------------|
| 40112959006 | GP-4 0-2.5 | EPA 3546 | OEXT/26220 | EPA 8270 by SIM | MSSV/7783 |
| 40112959007 | MW-3 2.5-5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959008 | GP-3 2.5-5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959009 | GP-5 2.5-5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959010 | GP-6 2.5-5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959011 | GP-7 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959012 | PZ-4 2.5-5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959013 | GP-8 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959014 | MW-5 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959015 | MW-6 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959016 | GP-9 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959017 | GP-10 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959018 | GP-11 0-2.5 | EPA 3546 | OEXT/26234 | EPA 8270 by SIM | MSSV/7785 |
| 40112959001 | PZ-1 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959002 | PZ-2 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959003 | GP-1 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959004 | GP-2 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959005 | GP-3 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959006 | GP-4 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959007 | MW-3 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959008 | GP-3 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959009 | GP-5 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959010 | GP-6 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959011 | GP-7 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959012 | PZ-4 2.5-5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959013 | GP-8 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959014 | MW-5 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959015 | MW-6 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959016 | GP-9 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959017 | GP-10 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959018 | GP-11 0-2.5 | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959019 | MEOH B | EPA 5035/5030B | MSV/28057 | EPA 8260 | MSV/28058 |
| 40112959001 | PZ-1 2.5-5 | ASTM D2974-87 | PMST/11071 | | |
| 40112959002 | PZ-2 2.5-5 | ASTM D2974-87 | PMST/11071 | | |
| 40112959003 | GP-1 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959004 | GP-2 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959005 | GP-3 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959006 | GP-4 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959007 | MW-3 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959008 | GP-3 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959009 | GP-5 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959010 | GP-6 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959011 | GP-7 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959012 | PZ-4 2.5-5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959013 | GP-8 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959014 | MW-5 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959015 | MW-6 0-2.5 | ASTM D2974-87 | PMST/11072 | | |

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 15-0558.00 TWO RIVERS

Pace Project No.: 40112959

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|------------|-------------------|------------------|
| 40112959016 | GP-9 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959017 | GP-10 0-2.5 | ASTM D2974-87 | PMST/11072 | | |
| 40112959018 | GP-11 0-2.5 | ASTM D2974-87 | PMST/11072 | | |

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

(Please Print Clearly)

Company Name: *Ayres Associates*
 Branch/Location: *Madison*
 Project Contact: *Jeff Steiner*
 Phone: *609 443 1200*
 Project Number: *15-0558.00*
 Project Name: *Two Rivers*
 Project State: *Wisconsin*
 Sampled By (Print): *Erin Gross i. Tom Grzech*
 Sampled By (Sign): *Erin*
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40112959

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

| Y/N | N | N | N | N | | | | | | | | | | | | | |
|--------------------|------------|------------|------------|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pick Letter | <i>PS</i> | <i>AS</i> | <i>DA</i> | <i>SA</i> | | | | | | | | | | | | | |
| Analyses Requested | <i>VOC</i> | <i>PAH</i> | <i>PCB</i> | <i>PCRA METALS</i> | | | | | | | | | | | | | |

Quote #: _____
 Mail To Contact: *Jeff Steiner*
 Mail To Company: *Ayres Associates*
 Mail To Address: *5201 E Terrace Dr
Madison, WI 53718*
 Invoice To Contact: *Jeff Steiner*
 Invoice To Company: *Ayres Associates*
 Invoice To Address: *3433 Oakwood Hills Pkwy
Sauvage, WI 54701*
 Invoice To Phone: *(715) 831-7511*
 CLIENT COMMENTS: *Send EDD*
 LAB COMMENTS (Lab Use Only): *2-40zrag^A, 1-40mlv*
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | | COLLECTION | | MATRIX | DATE | TIME | S | F | A | S | A | S | A | S | A | S | |
|------------|-----------------|--------------|---------------|-----------------|----------|------|------|---|---|---|---|---|---|---|---|---|---|--|
| | | | DATE | TIME | | | | | | | | | | | | | | |
| <i>001</i> | <i>PZ-1</i> | <i>2.5-5</i> | <i>4/6/15</i> | <i>10:40 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>002</i> | <i>PZ-2</i> | <i>2.5-5</i> | <i>4/6</i> | <i>2:15 pm</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>003</i> | <i>GP-1</i> | <i>2.5-5</i> | <i>4/6</i> | <i>5:15 pm</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>004</i> | <i>GP-2</i> | <i>0-2.5</i> | <i>4/6</i> | <i>5:25 pm</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>005</i> | <i>GP-3</i> | <i>0-2.5</i> | <i>4/6</i> | <i>5:35 pm</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>006</i> | <i>GP-4</i> | <i>0-2.5</i> | <i>4/7/15</i> | <i>7:25 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>007</i> | <i>MW-3</i> | <i>2.5-5</i> | <i>4/7</i> | <i>7:50 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>008</i> | <i>GP-3</i> | <i>2.5-5</i> | <i>4/6</i> | <i>5:35 pm</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>009</i> | <i>GP-5</i> | <i>2.5-5</i> | <i>4/7</i> | <i>9:10 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>010</i> | <i>GP-6</i> | <i>2.5-5</i> | <i>4/7</i> | <i>9:25 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>011</i> | <i>GP-7</i> | <i>0-2.5</i> | <i>4/7</i> | <i>9:50 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>012</i> | <i>PZ-4</i> | <i>2.5-5</i> | <i>4/7</i> | <i>10:20 am</i> | <i>S</i> | | | | | | | | | | | | | |
| <i>013</i> | <i>GP-8</i> | <i>0-2.5</i> | <i>4/7</i> | <i>11:50 pm</i> | <i>S</i> | | | | | | | | | | | | | |

| | | | | | |
|--|------------------------------------|--------------------------------|-----------------------------------|--------------------------------|---|
| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: | Relinquished By: <i>Erin Gross</i> | Date/Time: <i>4/9/15</i> | Received By: | Date/Time: | PACE Project No. <i>40112959</i> |
| | Relinquished By: <i>Walter</i> | Date/Time: <i>4-10-15 0945</i> | Received By: <i>Susan K Wylie</i> | Date/Time: <i>4-10-15 0945</i> | |
| Transmit Prelim Rush Results by (complete what you want): | Relinquished By: | Date/Time: | Received By: | Date/Time: | Sample Receipt pH OK / Adjusted |
| Email #1: | Relinquished By: | Date/Time: | Received By: | Date/Time: | Cooler Custody Seal Present / Not Present Intact / Not Intact |
| Email #2: | Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Telephone: | Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Fax: | Relinquished By: | Date/Time: | Received By: | Date/Time: | |
| Samples on HOLD are subject to special pricing and release of liability | Relinquished By: | Date/Time: | Received By: | Date/Time: | |

(Please Print Clearly)

Company Name: Ayres Associates
 Branch/Location: Madison
 Project Contact: Jeff Steiner
 Phone: (608) 443-1200
 Project Number: 19-0468,00
 Project Name: Two Rivers
 Project State: Wisconsin
 Sampled By (Print): Erin Gross i. Tom Grueck
 Sampled By (Sign): Erin



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40112959

Page 91 of 92

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

| Y/N | N | N | N | N | | | | | | | | | | | | | |
|--------------------|-----|-----|-----|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Pick Letter | F | A | A | A | | | | | | | | | | | | | |
| Analyses Requested | VOC | PAH | PCB | PCRA metals | | | | | | | | | | | | | |

Quote #: 40112959

Mail To Contact: Jeff Steiner

Mail To Company: Ayres Associates

Mail To Address: 5201 E Terrace Dr
Madison, WI 53718

Invoice To Contact: Jeff Steiner

Invoice To Company: Ayres Associates

Invoice To Address: 3433 Oakwood Hills Plwy
Eau Claire, WI 54701

Invoice To Phone: (715) 831-7511

CLIENT COMMENTS: Send EDD

LAB COMMENTS (Lab Use Only): 2-4oz bag A, 1-4oz B

Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION | | MATRIX | Y/N | F | A | A | A | | | | | | | | |
|------------|-----------------|------------|--------|--------|-----|---|---|---|---|--|--|--|--|--|--|--|--|
| | | DATE | TIME | | | | | | | | | | | | | | |
| 014 | MW-5 0-2.5 | 4/7 | 2:15pm | S | | X | X | | X | | | | | | | | |
| 015 | MW-6 0-2.5 | 4/7 | 3:10pm | S | | X | X | | X | | | | | | | | |
| 016 | GP-9 0-2.5 | 4/7 | 4:00pm | S | | X | X | | X | | | | | | | | |
| 017 | GP-10 0-2.5 | 4/7 | 4:15pm | S | | X | X | | X | | | | | | | | |
| 018 | GP-11 0-2.5 | 4/7 | 4:30pm | S | | X | X | | X | | | | | | | | |
| 019 | MeCH B | 4/7 | | | | X | | | | | | | | | | | |

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: Erin Gross Date/Time: 4/9/15

Relinquished By: Walter Date/Time: 4-10-15 0945

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: Suzanne Kiefer Date/Time: 4-10-15 0945

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. 40112959

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

Appendix D
Low Flow Sampling Stabilization Logs



Troll 9000

4/14/2015

Low-Flow System

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15 [ft]
 Pump placement from TOC 13 [ft]

Well Information:

Well ID AMW-1
 Well diameter 2 [in]
 Well total depth 15.5 [ft]
 Depth to top of screen 5.5 [ft]
 Screen length 120 [in]
 Depth to Water 4.31 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 261.79 [mL]
 Calculated Sample Rate 158 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 10:36:29 | 45.88 | 6.97 | 452.83 | 9.90 | 8.72 | 238.16 |
| | 10:38:29 | 45.81 | 6.97 | 454.58 | 6.85 | 7.99 | 230.51 |
| | 10:40:30 | 45.51 | 6.96 | 454.07 | 6.64 | 7.66 | 225.24 |
| | 10:42:31 | 45.40 | 6.96 | 455.93 | 7.43 | 7.60 | 220.66 |
| | 10:44:32 | 45.39 | 6.96 | 456.90 | 8.59 | 7.63 | 218.65 |
| Variance in last 3 readings | 10:40:30 | -0.31 | 0.00 | -0.51 | -0.21 | -0.33 | -5.26 |
| | 10:42:31 | -0.11 | 0.00 | 1.87 | 0.79 | -0.06 | -4.58 |
| | 10:44:32 | -0.01 | 0.00 | 0.97 | 1.17 | 0.03 | -2.02 |

Notes:



Troll 9000

Low-Flow System

4/14/2015

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15.5 [ft]
 Pump placement from TOC 13.5 [ft]

Well Information:

Well ID APMW-2
 Well diameter 2 [in]
 Well total depth 15.5 [ft]
 Depth to top of screen 5.5 [ft]
 Screen length 120 [in]
 Depth to Water 4.89 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 266.62 [mL]
 Calculated Sample Rate 160 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 15:31:41 | 45.39 | 6.83 | 639.98 | 12.64 | 0.13 | -21.40 |
| | 15:33:43 | 45.50 | 6.82 | 639.08 | 64.05 | 0.10 | -22.22 |
| | 15:35:43 | 45.61 | 6.83 | 641.65 | 60.55 | 0.10 | -22.71 |
| | 15:37:44 | 45.26 | 6.84 | 639.96 | 20.92 | 0.10 | -22.68 |
| | 15:39:45 | 45.02 | 6.85 | 637.83 | 9.36 | 0.09 | -20.29 |
| Variance in last 3 readings | 15:35:43 | 0.11 | 0.00 | 2.57 | -3.50 | 0.00 | -0.48 |
| | 15:37:44 | -0.35 | 0.01 | -1.69 | -39.63 | 0.01 | 0.03 |
| | 15:39:45 | -0.25 | 0.01 | -2.13 | -11.55 | -0.02 | 2.38 |

Notes:



Troll 9000

4/14/2015

Low-Flow System

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15 [ft]
 Pump placement from TOC 13 [ft]

Well Information:

Well ID AMW-3
 Well diameter 2 [in]
 Well total depth 15.5 [ft]
 Depth to top of screen 5.5 [ft]
 Screen length 120 [in]
 Depth to Water 4.02 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 261.79 [mL]
 Calculated Sample Rate 158 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 11:21:48 | 47.41 | 6.41 | 611.41 | 534.21 | 0.13 | 78.94 |
| | 11:23:48 | 47.68 | 6.42 | 616.15 | 8.84 | 0.12 | 79.79 |
| | 11:25:48 | 47.02 | 6.42 | 609.98 | 5.95 | 0.11 | 79.61 |
| | 11:27:50 | 46.84 | 6.43 | 605.83 | 7.54 | 0.10 | 80.34 |
| | 11:29:51 | 47.05 | 6.43 | 604.73 | 11.14 | 0.11 | 79.44 |
| Variance in last 3 readings | 11:25:48 | -0.66 | 0.00 | -6.17 | -2.90 | -0.01 | -0.17 |
| | 11:27:50 | -0.18 | 0.00 | -4.15 | 1.59 | -0.01 | 0.72 |
| | 11:29:51 | 0.20 | 0.00 | -1.10 | 3.60 | 0.01 | -0.90 |

Notes:



Troll 9000

4/14/2015

Low-Flow System

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15.5 [ft]
 Pump placement from TOC 13.5 [ft]

Well Information:

Well ID AMW-4
 Well diameter 2 [in]
 Well total depth 15.2 [ft]
 Depth to top of screen 5.2 [ft]
 Screen length 120 [in]
 Depth to Water 2.77 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 266.62 [mL]
 Calculated Sample Rate 160 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 14:00:23 | 42.63 | 6.57 | 673.31 | 1.55 | 0.18 | 4.16 |
| | 14:02:23 | 42.72 | 6.56 | 671.33 | 1.46 | 0.16 | 4.63 |
| | 14:04:23 | 42.55 | 6.56 | 660.18 | 1.42 | 0.14 | 5.87 |
| | 14:06:25 | 42.43 | 6.57 | 656.86 | 1.47 | 0.13 | 5.66 |
| | 14:08:26 | 42.11 | 6.57 | 658.16 | 1.74 | 0.10 | 4.77 |
| Variance in last 3 readings | 14:04:23 | -0.17 | 0.00 | -11.16 | -0.04 | -0.02 | 1.24 |
| | 14:06:25 | -0.12 | 0.00 | -3.32 | 0.05 | -0.01 | -0.21 |
| | 14:08:26 | -0.31 | 0.00 | 1.31 | 0.27 | -0.03 | -0.89 |

Notes:



Troll 9000

4/14/2015

Low-Flow System

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15.5 [ft]
 Pump placement from TOC 13.5 [ft]

Well Information:

Well ID AMW-5
 Well diameter 2 [in]
 Well total depth 15.6 [ft]
 Depth to top of screen 5.6 [ft]
 Screen length 120 [in]
 Depth to Water 3.58 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 266.62 [mL]
 Calculated Sample Rate 160 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 12:36:13 | 50.65 | 6.53 | 934.04 | 13.55 | 0.11 | -54.29 |
| | 12:38:14 | 50.55 | 6.53 | 931.42 | 48.72 | 0.10 | -55.06 |
| | 12:40:16 | 50.60 | 6.52 | 931.42 | 14.61 | 0.09 | -55.23 |
| | 12:42:15 | 50.39 | 6.53 | 931.66 | 11.91 | 0.10 | -56.26 |
| | 12:44:16 | 50.45 | 6.53 | 925.30 | 12.21 | 0.09 | -57.67 |
| Variance in last 3 readings | 12:40:16 | 0.05 | 0.00 | 0.00 | -34.11 | -0.01 | -0.17 |
| | 12:42:15 | -0.21 | 0.01 | 0.24 | -2.70 | 0.00 | -1.02 |
| | 12:44:16 | 0.06 | 0.00 | -6.37 | 0.30 | 0.00 | -1.41 |

Notes:



Troll 9000

Low-Flow System

4/14/2015

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 15 [ft]
 Pump placement from TOC 13 [ft]

Well Information:

Well ID AMW-6
 Well diameter 2 [in]
 Well total depth 14.9 [ft]
 Depth to top of screen 4.9 [ft]
 Screen length 120 [in]
 Depth to Water 3.27 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 261.79 [mL]
 Calculated Sample Rate 158 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 12:02:49 | 46.01 | 6.74 | 697.49 | 25.80 | 0.13 | 9.25 |
| | 12:04:50 | 45.71 | 6.74 | 693.65 | 27.21 | 0.12 | 8.65 |
| | 12:06:51 | 45.65 | 6.74 | 691.94 | 26.44 | 0.11 | 7.11 |
| | 12:08:52 | 45.83 | 6.74 | 695.10 | 27.43 | 0.10 | 0.94 |
| | 12:10:52 | 46.02 | 6.74 | 696.42 | 28.91 | 0.10 | -27.84 |
| Variance in last 3 readings | 12:06:51 | -0.06 | 0.00 | -1.71 | -0.78 | -0.01 | -1.54 |
| | 12:08:52 | 0.18 | 0.00 | 3.16 | 1.00 | -0.01 | -6.16 |
| | 12:10:52 | 0.19 | 0.00 | 1.32 | 1.47 | -0.01 | -28.79 |

Notes:



Troll 9000

4/14/2015

Low-Flow System

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 33 [ft]
 Pump placement from TOC 35 [ft]

Well Information:

Well ID APZ-1
 Well diameter 2 [in]
 Well total depth 33 [ft]
 Depth to top of screen 28 [ft]
 Screen length 60 [in]
 Depth to Water 5.71 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 435.54 [mL]
 Calculated Sample Rate 262 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 10:15:09 | 49.91 | 7.60 | 268.54 | 4.31 | 9.09 | 237.21 |
| | 10:17:09 | 49.91 | 7.61 | 266.79 | 4.10 | 9.29 | 237.07 |
| | 10:19:11 | 49.98 | 7.60 | 267.11 | 3.61 | 9.13 | 236.73 |
| | 10:21:12 | 50.00 | 7.61 | 267.56 | 3.88 | 9.10 | 236.08 |
| | 10:23:11 | 50.01 | 7.61 | 267.46 | 3.85 | 9.06 | 235.74 |
| Variance in last 3 readings | 10:19:11 | 0.07 | 0.00 | 0.31 | -0.49 | -0.16 | -0.35 |
| | 10:21:12 | 0.02 | 0.00 | 0.45 | 0.28 | -0.02 | -0.64 |
| | 10:23:11 | 0.01 | 0.00 | -0.10 | -0.04 | -0.05 | -0.34 |

Notes:



Troll 9000

Low-Flow System

4/14/2015

ISI Low-Flow Log

Project Information:

Operator Name Jeff Steiner
 Company Name Ayres Associates
 Project Name Two Rivers
 Site Name 1910 20th Street

Pump Information:

Pump Model/Type Peristaltic
 Tubing Type HDPE
 Tubing Diameter 0.25 [in]
 Tubing Length 32 [ft]
 Pump placement from TOC 30 [ft]

Well Information:

Well ID APZ-2
 Well diameter 2 [in]
 Well total depth 32.7 [ft]
 Depth to top of screen 27.7 [ft]
 Screen length 60 [in]
 Depth to Water 4.74 [ft]

Pumping information:

Final pumping rate 100 [mL/min]
 Flowcell volume 425.89 [mL]
 Calculated Sample Rate 256 [sec]
 Sample rate 120 [sec]
 Stabilized drawdown 2 [in]

Low-Flow Sampling Stabilization Summary

| | Time | Temp [F] | pH [pH] | Cond [μ S/cm] | Turb [NTU] | DO [mg/L] | ORP [mV] |
|------------------------------------|----------|----------|-------------------|--------------------|------------|-------------------|----------|
| Stabilization Settings | | | +/-0.2 +/-10 % | +/-30 | +/-20 | +/-0.2 +/-10 % | +/-20 |
| Last 5 Readings | 14:58:08 | 48.19 | 7.24 | 360.32 | 49.05 | 6.65 | 107.82 |
| | 15:00:09 | 48.26 | 7.24 | 360.89 | 50.09 | 6.38 | 107.38 |
| | 15:02:11 | 48.65 | 7.24 | 362.64 | 49.36 | 6.20 | 106.51 |
| | 15:04:11 | 48.89 | 7.24 | 364.63 | 49.94 | 5.81 | 106.25 |
| | 15:06:12 | 49.12 | 7.24 | 366.57 | 48.94 | 5.71 | 106.54 |
| Variance in last 3 readings | 15:02:11 | 0.39 | 0.00 | 1.75 | -0.73 | -0.17 | -0.87 |
| | 15:04:11 | 0.24 | 0.00 | 1.99 | 0.58 | -0.39 | -0.27 |
| | 15:06:12 | 0.23 | 0.00 | 1.94 | -1.00 | -0.10 | 0.29 |

Notes:

Appendix E
Laboratory Analytical Reports for Groundwater Samples

May 01, 2015

Jeff Steiner
AYRES & ASSOCIATES, INC.
5201 E. Terrace Dr., Suite 200
Madison, WI 53718

RE: Project: 19-0558.00 TWO RIVERS
Pace Project No.: 40113317

Dear Jeff Steiner:

Enclosed are the analytical results for sample(s) received by the laboratory on April 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|------------|--------|----------------|----------------|
| 40113317001 | APZ-1 | Water | 04/14/15 10:25 | 04/17/15 08:45 |
| 40113317002 | AMW-1 | Water | 04/14/15 10:45 | 04/17/15 08:45 |
| 40113317003 | AMW-3 | Water | 04/14/15 11:30 | 04/17/15 08:45 |
| 40113317004 | AMW-6 | Water | 04/14/15 12:05 | 04/17/15 08:45 |
| 40113317005 | AMW-5 | Water | 04/14/15 12:45 | 04/17/15 08:45 |
| 40113317006 | AMW-4 | Water | 04/14/15 14:10 | 04/17/15 08:45 |
| 40113317007 | APZ-4 | Water | 04/14/15 14:30 | 04/17/15 08:45 |
| 40113317008 | APZ-2 | Water | 04/14/15 15:05 | 04/17/15 08:45 |
| 40113317009 | AMW-2 | Water | 04/14/15 15:40 | 04/17/15 08:45 |
| 40113317010 | OMW-1 | Water | 04/14/15 16:20 | 04/17/15 08:45 |
| 40113317011 | TRIP BLANK | Water | 04/14/15 00:00 | 04/17/15 08:45 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 19-0558.00 TWO RIVERS
Pace Project No.: 40113317

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|-----------------|----------|-------------------|------------|
| 40113317001 | APZ-1 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317002 | AMW-1 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317003 | AMW-3 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317004 | AMW-6 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317005 | AMW-5 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317006 | AMW-4 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317007 | APZ-4 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317008 | APZ-2 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317009 | AMW-2 | EPA 6010 | DLB | 7 | PASI-G |
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317010 | OMW-1 | EPA 6010 | DLB | 7 | PASI-G |

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SAMPLE ANALYTE COUNT

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------|-----------------|----------|-------------------|------------|
| | | EPA 7470 | AJT | 1 | PASI-G |
| | | EPA 8270 by HVI | RJN | 20 | PASI-G |
| | | EPA 8260 | LAP | 64 | PASI-G |
| 40113317011 | TRIP BLANK | EPA 8260 | LAP | 64 | PASI-G |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 19-0558.00 TWO RIVERS
Pace Project No.: 40113317

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 40113317001 | APZ-1 | | | | | |
| EPA 6010 | Barium, Dissolved | 29.4 | ug/L | 5.0 | 04/22/15 19:53 | |
| EPA 8270 by HVI | Acenaphthene | 0.0087J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | Fluorene | 0.015J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.012J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.017J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | Naphthalene | 0.029J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | Phenanthrene | 0.016J | ug/L | 0.052 | 04/21/15 13:21 | |
| EPA 8270 by HVI | Pyrene | 0.0099J | ug/L | 0.052 | 04/21/15 13:21 | |
| 40113317002 | AMW-1 | | | | | |
| EPA 6010 | Barium, Dissolved | 56.8 | ug/L | 5.0 | 04/22/15 19:55 | |
| EPA 6010 | Selenium, Dissolved | 42.9 | ug/L | 20.0 | 04/22/15 19:55 | |
| EPA 8270 by HVI | Acenaphthene | 0.0058J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | Anthracene | 0.0043J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | Fluorene | 0.0070J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.013J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.023J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | Naphthalene | 0.033J | ug/L | 0.050 | 04/21/15 13:38 | |
| EPA 8270 by HVI | Phenanthrene | 0.010J | ug/L | 0.050 | 04/21/15 13:38 | |
| 40113317003 | AMW-3 | | | | | |
| EPA 6010 | Barium, Dissolved | 186 | ug/L | 5.0 | 04/22/15 19:58 | |
| EPA 8270 by HVI | Acenaphthene | 0.0062J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | Fluorene | 0.0054J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.0063J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.0090J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | Naphthalene | 0.011J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | Phenanthrene | 0.018J | ug/L | 0.050 | 04/21/15 13:54 | |
| EPA 8270 by HVI | Pyrene | 0.0094J | ug/L | 0.050 | 04/21/15 13:54 | |
| 40113317004 | AMW-6 | | | | | |
| EPA 6010 | Barium, Dissolved | 190 | ug/L | 5.0 | 04/22/15 20:00 | |
| EPA 8270 by HVI | Acenaphthene | 0.22 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Acenaphthylene | 0.016J | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Anthracene | 0.085 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Chrysene | 0.0058J | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Fluoranthene | 0.23 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Fluorene | 0.31 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.028J | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.015J | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Naphthalene | 0.024J | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Phenanthrene | 0.37 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8270 by HVI | Pyrene | 0.14 | ug/L | 0.050 | 04/21/15 14:11 | |
| EPA 8260 | 1,1-Dichloroethane | 0.30J | ug/L | 1.0 | 04/20/15 15:39 | |
| 40113317005 | AMW-5 | | | | | |
| EPA 6010 | Barium, Dissolved | 174 | ug/L | 5.0 | 04/22/15 20:02 | |
| EPA 8270 by HVI | Fluorene | 0.0040J | ug/L | 0.050 | 04/21/15 14:28 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.0056J | ug/L | 0.050 | 04/21/15 14:28 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 40113317005 | AMW-5 | | | | | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.0058J | ug/L | 0.050 | 04/21/15 14:28 | |
| EPA 8270 by HVI | Naphthalene | 0.0098J | ug/L | 0.050 | 04/21/15 14:28 | |
| EPA 8270 by HVI | Phenanthrene | 0.011J | ug/L | 0.050 | 04/21/15 14:28 | |
| 40113317006 | AMW-4 | | | | | |
| EPA 6010 | Barium, Dissolved | 97.0 | ug/L | 5.0 | 04/22/15 20:05 | |
| EPA 8270 by HVI | Acenaphthene | 0.026J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Anthracene | 0.025J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Benzo(a)anthracene | 0.011J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Benzo(g,h,i)perylene | 0.0057J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Chrysene | 0.0060J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Fluoranthene | 0.011J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Fluorene | 0.019J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Indeno(1,2,3-cd)pyrene | 0.0053J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.041J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.070 | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Naphthalene | 0.14 | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Phenanthrene | 0.039J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8270 by HVI | Pyrene | 0.016J | ug/L | 0.050 | 04/21/15 14:44 | |
| EPA 8260 | Benzene | 2.3 | ug/L | 1.0 | 04/20/15 13:23 | |
| EPA 8260 | 1,1-Dichloroethane | 1.6 | ug/L | 1.0 | 04/20/15 13:23 | |
| 40113317007 | APZ-4 | | | | | |
| EPA 6010 | Barium, Dissolved | 184 | ug/L | 5.0 | 04/22/15 20:07 | |
| EPA 8270 by HVI | Acenaphthene | 0.0063J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | Fluoranthene | 0.013J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | Fluorene | 0.015J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.010J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.017J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | Naphthalene | 0.017J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | Phenanthrene | 0.035J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8270 by HVI | Pyrene | 0.012J | ug/L | 0.049 | 04/21/15 15:01 | |
| EPA 8260 | p-Isopropyltoluene | 1.8 | ug/L | 1.0 | 04/20/15 13:46 | |
| EPA 8260 | Toluene | 0.78J | ug/L | 1.0 | 04/20/15 13:46 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 0.66J | ug/L | 1.0 | 04/20/15 13:46 | |
| EPA 8260 | m&p-Xylene | 1.0J | ug/L | 2.0 | 04/20/15 13:46 | |
| 40113317008 | APZ-2 | | | | | |
| EPA 6010 | Barium, Dissolved | 96.6 | ug/L | 5.0 | 04/22/15 20:09 | |
| EPA 8270 by HVI | Acenaphthene | 0.011J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Acenaphthylene | 0.0055J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Anthracene | 0.0073J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Chrysene | 0.0045J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Fluoranthene | 0.034J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Fluorene | 0.021J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 0.0042J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Naphthalene | 0.0071J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Phenanthrene | 0.0092J | ug/L | 0.051 | 04/21/15 15:17 | |
| EPA 8270 by HVI | Pyrene | 0.037J | ug/L | 0.051 | 04/21/15 15:17 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------|---------------------------|---------|-------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 40113317008 | APZ-2 | | | | | |
| EPA 8260 | p-Isopropyltoluene | 0.88J | ug/L | 1.0 | 04/20/15 16:24 | |
| EPA 8260 | Toluene | 0.60J | ug/L | 1.0 | 04/20/15 16:24 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 0.51J | ug/L | 1.0 | 04/20/15 16:24 | |
| 40113317009 | AMW-2 | | | | | |
| EPA 6010 | Barium, Dissolved | 238 | ug/L | 5.0 | 04/22/15 20:16 | |
| EPA 8270 by HVI | Acenaphthene | 1.9 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Acenaphthylene | 0.35 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Anthracene | 0.15J | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Chrysene | 0.018J | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Fluoranthene | 0.10J | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Fluorene | 2.1 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 16.7 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 0.21 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Naphthalene | 0.80 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Phenanthrene | 2.0 | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8270 by HVI | Pyrene | 0.084J | ug/L | 0.20 | 04/21/15 15:34 | |
| EPA 8260 | Benzene | 2.7 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | n-Butylbenzene | 2.3 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | Ethylbenzene | 0.74J | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 2.1 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | p-Isopropyltoluene | 1.3 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | n-Propylbenzene | 4.2 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | Tetrachloroethene | 0.77J | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | Toluene | 1.7 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 2.0 | ug/L | 1.0 | 04/20/15 16:46 | |
| EPA 8260 | m&p-Xylene | 2.7 | ug/L | 2.0 | 04/20/15 16:46 | |
| EPA 8260 | o-Xylene | 1.0 | ug/L | 1.0 | 04/20/15 16:46 | |
| 40113317010 | OMW-1 | | | | | |
| EPA 6010 | Barium, Dissolved | 271 | ug/L | 5.0 | 04/22/15 20:19 | |
| EPA 8270 by HVI | Acenaphthene | 0.056 | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Acenaphthylene | 0.0091J | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Anthracene | 0.0098J | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Fluorene | 0.021J | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | 1-Methylnaphthalene | 1.4 | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | 2-Methylnaphthalene | 1.2 | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Naphthalene | 2.5 | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Phenanthrene | 0.018J | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8270 by HVI | Pyrene | 0.0082J | ug/L | 0.049 | 04/21/15 15:51 | |
| EPA 8260 | Benzene | 6.1 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | sec-Butylbenzene | 2.6J | ug/L | 5.0 | 04/20/15 17:09 | |
| EPA 8260 | Ethylbenzene | 1.2 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | Isopropylbenzene (Cumene) | 3.0 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | p-Isopropyltoluene | 0.63J | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | Naphthalene | 3.8J | ug/L | 5.0 | 04/20/15 17:09 | |
| EPA 8260 | n-Propylbenzene | 10.2 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | Toluene | 1.2 | ug/L | 1.0 | 04/20/15 17:09 | |

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 40113317010 | OMW-1 | | | | | |
| EPA 8260 | 1,2,4-Trimethylbenzene | 40.7 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | 1,3,5-Trimethylbenzene | 15.2 | ug/L | 1.0 | 04/20/15 17:09 | |
| EPA 8260 | m&p-Xylene | 12.7 | ug/L | 2.0 | 04/20/15 17:09 | |
| EPA 8260 | o-Xylene | 0.60J | ug/L | 1.0 | 04/20/15 17:09 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-1 **Lab ID: 40113317001** Collected: 04/14/15 10:25 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 19:53 | 7440-38-2 | |
| Barium, Dissolved | 29.4 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 19:53 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 19:53 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 19:53 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 19:53 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 19:53 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 19:53 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:10 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.0087J | ug/L | 0.052 | 0.0052 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 83-32-9 | |
| Acenaphthylene | <0.0051 | ug/L | 0.052 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 208-96-8 | |
| Anthracene | <0.0042 | ug/L | 0.052 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 120-12-7 | |
| Benzo(a)anthracene | <0.0053 | ug/L | 0.052 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 56-55-3 | |
| Benzo(a)pyrene | <0.0046 | ug/L | 0.052 | 0.0046 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0055 | ug/L | 0.052 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0036 | ug/L | 0.052 | 0.0036 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0059 | ug/L | 0.052 | 0.0059 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 207-08-9 | |
| Chrysene | <0.0044 | ug/L | 0.052 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0058 | ug/L | 0.052 | 0.0058 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 53-70-3 | |
| Fluoranthene | <0.0098 | ug/L | 0.052 | 0.0098 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 206-44-0 | |
| Fluorene | 0.015J | ug/L | 0.052 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0037 | ug/L | 0.052 | 0.0037 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 193-39-5 | |
| 1-Methylnaphthalene | 0.012J | ug/L | 0.052 | 0.0032 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 90-12-0 | |
| 2-Methylnaphthalene | 0.017J | ug/L | 0.052 | 0.0029 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 91-57-6 | |
| Naphthalene | 0.029J | ug/L | 0.052 | 0.0047 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 91-20-3 | |
| Phenanthrene | 0.016J | ug/L | 0.052 | 0.0080 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 85-01-8 | |
| Pyrene | 0.0099J | ug/L | 0.052 | 0.0080 | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 74 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 321-60-8 | |
| Terphenyl-d14 (S) | 107 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 13:21 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 12:38 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 12:38 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 12:38 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 12:38 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 12:38 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-1 Lab ID: 40113317001 Collected: 04/14/15 10:25 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 12:38 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 12:38 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 12:38 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 12:38 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 12:38 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 12:38 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 12:38 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 12:38 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 12:38 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 12:38 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 12:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 12:38 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 12:38 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 12:38 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 12:38 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 12:38 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 12:38 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 12:38 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 12:38 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 12:38 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 12:38 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 12:38 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 12:38 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 12:38 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 12:38 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 12:38 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 12:38 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 12:38 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-1 **Lab ID:** 40113317001 Collected: 04/14/15 10:25 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 12:38 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 12:38 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 12:38 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 04/20/15 12:38 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 04/20/15 12:38 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 04/20/15 12:38 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-1 **Lab ID: 40113317002** Collected: 04/14/15 10:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 19:55 | 7440-38-2 | |
| Barium, Dissolved | 56.8 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 19:55 | 7440-39-3 | |
| Cadmium, Dissolved | <1.2 | ug/L | 10.0 | 1.2 | 2 | | 04/24/15 17:51 | 7440-43-9 | D3 |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 19:55 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 19:55 | 7439-92-1 | |
| Selenium, Dissolved | 42.9 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 19:55 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 19:55 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:17 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.0058J | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 83-32-9 | |
| Acenaphthylene | <0.0049 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 208-96-8 | |
| Anthracene | 0.0043J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 120-12-7 | |
| Benzo(a)anthracene | <0.0051 | ug/L | 0.050 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 56-55-3 | |
| Benzo(a)pyrene | <0.0044 | ug/L | 0.050 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.050 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 207-08-9 | |
| Chrysene | <0.0042 | ug/L | 0.050 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0055 | ug/L | 0.050 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 53-70-3 | |
| Fluoranthene | <0.0093 | ug/L | 0.050 | 0.0093 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 206-44-0 | |
| Fluorene | 0.0070J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 193-39-5 | |
| 1-Methylnaphthalene | 0.013J | ug/L | 0.050 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 90-12-0 | |
| 2-Methylnaphthalene | 0.023J | ug/L | 0.050 | 0.0027 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 91-57-6 | |
| Naphthalene | 0.033J | ug/L | 0.050 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 91-20-3 | |
| Phenanthrene | 0.010J | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 85-01-8 | |
| Pyrene | <0.0076 | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 71 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 321-60-8 | |
| Terphenyl-d14 (S) | 84 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 13:38 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:01 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 13:01 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 13:01 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:01 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:01 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-1 **Lab ID: 40113317002** Collected: 04/14/15 10:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 13:01 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:01 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 13:01 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:01 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:01 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 13:01 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 13:01 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 13:01 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:01 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 13:01 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:01 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:01 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:01 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 13:01 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 13:01 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:01 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:01 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 13:01 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:01 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:01 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:01 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:01 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 13:01 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:01 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:01 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 13:01 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 13:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:01 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-1 **Lab ID: 40113317002** Collected: 04/14/15 10:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------|---------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:01 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 13:01 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:01 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 99 | % | 70-130 | | 1 | | 04/20/15 13:01 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 04/20/15 13:01 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 04/20/15 13:01 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-3 **Lab ID: 40113317003** Collected: 04/14/15 11:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | | | | | | | | |
| Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 19:58 | 7440-38-2 | |
| Barium, Dissolved | 186 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 19:58 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 19:58 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 19:58 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 19:58 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 19:58 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 19:58 | 7440-22-4 | |
| 7470 Mercury, Dissolved | | | | | | | | | |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:19 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | | | | | | | | | |
| Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.0062J | ug/L | 0.050 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 83-32-9 | |
| Acenaphthylene | <0.0049 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 208-96-8 | |
| Anthracene | <0.0040 | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 120-12-7 | |
| Benzo(a)anthracene | <0.0051 | ug/L | 0.050 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 56-55-3 | |
| Benzo(a)pyrene | <0.0044 | ug/L | 0.050 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.050 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 207-08-9 | |
| Chrysene | <0.0042 | ug/L | 0.050 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 53-70-3 | |
| Fluoranthene | <0.0094 | ug/L | 0.050 | 0.0094 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 206-44-0 | |
| Fluorene | 0.0054J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0036 | ug/L | 0.050 | 0.0036 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 193-39-5 | |
| 1-Methylnaphthalene | 0.0063J | ug/L | 0.050 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 90-12-0 | |
| 2-Methylnaphthalene | 0.0090J | ug/L | 0.050 | 0.0028 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 91-57-6 | |
| Naphthalene | 0.011J | ug/L | 0.050 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 91-20-3 | |
| Phenanthrene | 0.018J | ug/L | 0.050 | 0.0077 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 85-01-8 | |
| Pyrene | 0.0094J | ug/L | 0.050 | 0.0077 | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 76 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 321-60-8 | |
| Terphenyl-d14 (S) | 106 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 13:54 | 1718-51-0 | |
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:16 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 15:16 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 15:16 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:16 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:16 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-3 **Lab ID: 40113317003** Collected: 04/14/15 11:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 15:16 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 15:16 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 15:16 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:16 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:16 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 15:16 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 15:16 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 15:16 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 15:16 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 15:16 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 15:16 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 15:16 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:16 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 15:16 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 15:16 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:16 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 15:16 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 15:16 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:16 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 15:16 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 15:16 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:16 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 15:16 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 15:16 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:16 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 15:16 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 15:16 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:16 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-3 **Lab ID: 40113317003** Collected: 04/14/15 11:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------|---------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:16 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 15:16 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:16 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 96 | % | 70-130 | | 1 | | 04/20/15 15:16 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 04/20/15 15:16 | 1868-53-7 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 04/20/15 15:16 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-6 **Lab ID: 40113317004** Collected: 04/14/15 12:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | | | | | | | | |
| Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:00 | 7440-38-2 | |
| Barium, Dissolved | 190 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:00 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:00 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:00 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:00 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:00 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:00 | 7440-22-4 | |
| 7470 Mercury, Dissolved | | | | | | | | | |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:22 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | | | | | | | | | |
| Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.22 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 83-32-9 | |
| Acenaphthylene | 0.016J | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 208-96-8 | |
| Anthracene | 0.085 | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 120-12-7 | |
| Benzo(a)anthracene | <0.0051 | ug/L | 0.050 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 56-55-3 | |
| Benzo(a)pyrene | <0.0044 | ug/L | 0.050 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.050 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 207-08-9 | |
| Chrysene | 0.0058J | ug/L | 0.050 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0055 | ug/L | 0.050 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 53-70-3 | |
| Fluoranthene | 0.23 | ug/L | 0.050 | 0.0093 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 206-44-0 | |
| Fluorene | 0.31 | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 193-39-5 | |
| 1-Methylnaphthalene | 0.028J | ug/L | 0.050 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 90-12-0 | |
| 2-Methylnaphthalene | 0.015J | ug/L | 0.050 | 0.0027 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 91-57-6 | |
| Naphthalene | 0.024J | ug/L | 0.050 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 91-20-3 | |
| Phenanthrene | 0.37 | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 85-01-8 | |
| Pyrene | 0.14 | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 73 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 321-60-8 | |
| Terphenyl-d14 (S) | 106 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 14:11 | 1718-51-0 | |
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:39 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 15:39 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 15:39 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:39 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:39 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: **AMW-6** Lab ID: **40113317004** Collected: 04/14/15 12:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 15:39 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 15:39 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 15:39 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:39 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:39 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 15:39 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 15:39 | 75-71-8 | |
| 1,1-Dichloroethane | 0.30J | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 15:39 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 15:39 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 15:39 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 15:39 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 15:39 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:39 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 15:39 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 15:39 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:39 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 15:39 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 15:39 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 15:39 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 15:39 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 15:39 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:39 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 15:39 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 15:39 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 15:39 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 15:39 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 15:39 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:39 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-6 **Lab ID: 40113317004** Collected: 04/14/15 12:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 15:39 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 15:39 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 15:39 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 04/20/15 15:39 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 04/20/15 15:39 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 04/20/15 15:39 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-5 **Lab ID: 40113317005** Collected: 04/14/15 12:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:02 | 7440-38-2 | |
| Barium, Dissolved | 174 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:02 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:02 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:02 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:02 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:02 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:02 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:24 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | <0.0049 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 83-32-9 | |
| Acenaphthylene | <0.0049 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 208-96-8 | |
| Anthracene | <0.0040 | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 120-12-7 | |
| Benzo(a)anthracene | <0.0051 | ug/L | 0.050 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 56-55-3 | |
| Benzo(a)pyrene | <0.0044 | ug/L | 0.050 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.050 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 207-08-9 | |
| Chrysene | <0.0042 | ug/L | 0.050 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0055 | ug/L | 0.050 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 53-70-3 | |
| Fluoranthene | <0.0093 | ug/L | 0.050 | 0.0093 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 206-44-0 | |
| Fluorene | 0.0040J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0035 | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 193-39-5 | |
| 1-Methylnaphthalene | 0.0056J | ug/L | 0.050 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 90-12-0 | |
| 2-Methylnaphthalene | 0.0058J | ug/L | 0.050 | 0.0027 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 91-57-6 | |
| Naphthalene | 0.0098J | ug/L | 0.050 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 91-20-3 | |
| Phenanthrene | 0.011J | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 85-01-8 | |
| Pyrene | <0.0076 | ug/L | 0.050 | 0.0076 | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 67 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 321-60-8 | |
| Terphenyl-d14 (S) | 103 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 14:28 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:01 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 16:01 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 16:01 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:01 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:01 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 108-90-7 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-5 **Lab ID: 40113317005** Collected: 04/14/15 12:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 16:01 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:01 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 16:01 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:01 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:01 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 16:01 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 16:01 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 16:01 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:01 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 16:01 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:01 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:01 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:01 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 16:01 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 16:01 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:01 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:01 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 16:01 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:01 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:01 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:01 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:01 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 16:01 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:01 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:01 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 16:01 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 16:01 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:01 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-5 **Lab ID: 40113317005** Collected: 04/14/15 12:45 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:01 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 16:01 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:01 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 04/20/15 16:01 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 04/20/15 16:01 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 04/20/15 16:01 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-4 **Lab ID: 40113317006** Collected: 04/14/15 14:10 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:05 | 7440-38-2 | |
| Barium, Dissolved | 97.0 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:05 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:05 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:05 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:05 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:05 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:05 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:26 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.026J | ug/L | 0.050 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 83-32-9 | |
| Acenaphthylene | <0.0049 | ug/L | 0.050 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 208-96-8 | |
| Anthracene | 0.025J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 120-12-7 | |
| Benzo(a)anthracene | 0.011J | ug/L | 0.050 | 0.0051 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 56-55-3 | |
| Benzo(a)pyrene | <0.0044 | ug/L | 0.050 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.050 | 0.0053 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 205-99-2 | |
| Benzo(g,h,i)perylene | 0.0057J | ug/L | 0.050 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 207-08-9 | |
| Chrysene | 0.0060J | ug/L | 0.050 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0056 | ug/L | 0.050 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 53-70-3 | |
| Fluoranthene | 0.011J | ug/L | 0.050 | 0.0094 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 206-44-0 | |
| Fluorene | 0.019J | ug/L | 0.050 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | 0.0053J | ug/L | 0.050 | 0.0036 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 193-39-5 | |
| 1-Methylnaphthalene | 0.041J | ug/L | 0.050 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 90-12-0 | |
| 2-Methylnaphthalene | 0.070 | ug/L | 0.050 | 0.0028 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 91-57-6 | |
| Naphthalene | 0.14 | ug/L | 0.050 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 91-20-3 | |
| Phenanthrene | 0.039J | ug/L | 0.050 | 0.0077 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 85-01-8 | |
| Pyrene | 0.016J | ug/L | 0.050 | 0.0077 | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 73 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 321-60-8 | |
| Terphenyl-d14 (S) | 95 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 14:44 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | 2.3 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:23 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 13:23 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 13:23 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:23 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:23 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-4 **Lab ID: 40113317006** Collected: 04/14/15 14:10 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 13:23 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:23 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 13:23 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:23 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:23 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 13:23 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 13:23 | 75-71-8 | |
| 1,1-Dichloroethane | 1.6 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 13:23 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:23 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 13:23 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:23 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:23 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:23 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 13:23 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 13:23 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:23 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:23 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 13:23 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:23 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:23 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:23 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:23 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 13:23 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:23 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:23 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 13:23 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 13:23 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:23 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-4 **Lab ID: 40113317006** Collected: 04/14/15 14:10 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:23 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 13:23 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:23 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 04/20/15 13:23 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 04/20/15 13:23 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 04/20/15 13:23 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-4 **Lab ID: 40113317007** Collected: 04/14/15 14:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:07 | 7440-38-2 | |
| Barium, Dissolved | 184 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:07 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:07 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:07 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:07 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:07 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:07 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:29 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.0063J | ug/L | 0.049 | 0.0048 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 83-32-9 | |
| Acenaphthylene | <0.0048 | ug/L | 0.049 | 0.0048 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 208-96-8 | |
| Anthracene | <0.0039 | ug/L | 0.049 | 0.0039 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 120-12-7 | |
| Benzo(a)anthracene | <0.0050 | ug/L | 0.049 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 56-55-3 | |
| Benzo(a)pyrene | <0.0043 | ug/L | 0.049 | 0.0043 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0052 | ug/L | 0.049 | 0.0052 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0034 | ug/L | 0.049 | 0.0034 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0055 | ug/L | 0.049 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 207-08-9 | |
| Chrysene | <0.0041 | ug/L | 0.049 | 0.0041 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0054 | ug/L | 0.049 | 0.0054 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 53-70-3 | |
| Fluoranthene | 0.013J | ug/L | 0.049 | 0.0091 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 206-44-0 | |
| Fluorene | 0.015J | ug/L | 0.049 | 0.0039 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0035 | ug/L | 0.049 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 193-39-5 | |
| 1-Methylnaphthalene | 0.010J | ug/L | 0.049 | 0.0030 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 90-12-0 | |
| 2-Methylnaphthalene | 0.017J | ug/L | 0.049 | 0.0027 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 91-57-6 | |
| Naphthalene | 0.017J | ug/L | 0.049 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 91-20-3 | |
| Phenanthrene | 0.035J | ug/L | 0.049 | 0.0074 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 85-01-8 | |
| Pyrene | 0.012J | ug/L | 0.049 | 0.0075 | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 64 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 321-60-8 | |
| Terphenyl-d14 (S) | 108 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 15:01 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:46 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 13:46 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 13:46 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:46 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:46 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-4 **Lab ID: 40113317007** Collected: 04/14/15 14:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 13:46 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:46 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 13:46 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:46 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:46 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 13:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 13:46 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 13:46 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:46 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 13:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 13:46 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:46 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 13:46 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 13:46 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:46 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:46 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 13:46 | 98-82-8 | |
| p-Isopropyltoluene | 1.8 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 13:46 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 13:46 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 13:46 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 13:46 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 127-18-4 | |
| Toluene | 0.78J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 13:46 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 13:46 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 13:46 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 13:46 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | 0.66J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-4 **Lab ID: 40113317007** Collected: 04/14/15 14:30 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------|---------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 13:46 | 75-01-4 | |
| m&p-Xylene | 1.0J | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 13:46 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 13:46 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 70-130 | | 1 | | 04/20/15 13:46 | 460-00-4 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 04/20/15 13:46 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 04/20/15 13:46 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-2 **Lab ID:** 40113317008 Collected: 04/14/15 15:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | | | | | | | | |
| Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:09 | 7440-38-2 | |
| Barium, Dissolved | 96.6 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:09 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:09 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:09 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:09 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:09 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:09 | 7440-22-4 | |
| 7470 Mercury, Dissolved | | | | | | | | | |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/24/15 10:35 | 04/27/15 09:36 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | | | | | | | | | |
| Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.011J | ug/L | 0.051 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 83-32-9 | |
| Acenaphthylene | 0.0055J | ug/L | 0.051 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 208-96-8 | |
| Anthracene | 0.0073J | ug/L | 0.051 | 0.0041 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 120-12-7 | |
| Benzo(a)anthracene | <0.0052 | ug/L | 0.051 | 0.0052 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 56-55-3 | |
| Benzo(a)pyrene | <0.0045 | ug/L | 0.051 | 0.0045 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0054 | ug/L | 0.051 | 0.0054 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0035 | ug/L | 0.051 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0057 | ug/L | 0.051 | 0.0057 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 207-08-9 | |
| Chrysene | 0.0045J | ug/L | 0.051 | 0.0043 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0056 | ug/L | 0.051 | 0.0056 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 53-70-3 | |
| Fluoranthene | 0.034J | ug/L | 0.051 | 0.0095 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 206-44-0 | |
| Fluorene | 0.021J | ug/L | 0.051 | 0.0041 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0036 | ug/L | 0.051 | 0.0036 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 193-39-5 | |
| 1-Methylnaphthalene | 0.0042J | ug/L | 0.051 | 0.0031 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 90-12-0 | |
| 2-Methylnaphthalene | <0.0028 | ug/L | 0.051 | 0.0028 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 91-57-6 | |
| Naphthalene | 0.0071J | ug/L | 0.051 | 0.0046 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 91-20-3 | |
| Phenanthrene | 0.0092J | ug/L | 0.051 | 0.0077 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 85-01-8 | |
| Pyrene | 0.037J | ug/L | 0.051 | 0.0078 | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 68 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 321-60-8 | |
| Terphenyl-d14 (S) | 116 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 15:17 | 1718-51-0 | |
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:24 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 16:24 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 16:24 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:24 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:24 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 108-90-7 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-2 **Lab ID:** 40113317008 Collected: 04/14/15 15:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 16:24 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:24 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 16:24 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:24 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:24 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 16:24 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 16:24 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 16:24 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:24 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 16:24 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:24 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:24 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:24 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 16:24 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 16:24 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:24 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:24 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 16:24 | 98-82-8 | |
| p-Isopropyltoluene | 0.88J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:24 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:24 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:24 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:24 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 16:24 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 127-18-4 | |
| Toluene | 0.60J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:24 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:24 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 16:24 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 16:24 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:24 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | 0.51J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: APZ-2 **Lab ID: 40113317008** Collected: 04/14/15 15:05 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:24 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 16:24 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:24 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 04/20/15 16:24 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 04/20/15 16:24 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 04/20/15 16:24 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-2 **Lab ID: 40113317009** Collected: 04/14/15 15:40 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|-------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved | | | | | | | | | |
| Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:16 | 7440-38-2 | |
| Barium, Dissolved | 238 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:16 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:16 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:16 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:16 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:16 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:16 | 7440-22-4 | |
| 7470 Mercury, Dissolved | | | | | | | | | |
| Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/29/15 13:05 | 04/30/15 09:24 | 7439-97-6 | |
| 8270 MSSV PAH by HVI | | | | | | | | | |
| Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 1.9 | ug/L | 0.20 | 0.020 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 83-32-9 | |
| Acenaphthylene | 0.35 | ug/L | 0.20 | 0.020 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 208-96-8 | |
| Anthracene | 0.15J | ug/L | 0.20 | 0.016 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 120-12-7 | |
| Benzo(a)anthracene | <0.021 | ug/L | 0.20 | 0.021 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 56-55-3 | |
| Benzo(a)pyrene | <0.018 | ug/L | 0.20 | 0.018 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.021 | ug/L | 0.20 | 0.021 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.014 | ug/L | 0.20 | 0.014 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.023 | ug/L | 0.20 | 0.023 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 207-08-9 | |
| Chrysene | 0.018J | ug/L | 0.20 | 0.017 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.022 | ug/L | 0.20 | 0.022 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 53-70-3 | |
| Fluoranthene | 0.10J | ug/L | 0.20 | 0.038 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 206-44-0 | |
| Fluorene | 2.1 | ug/L | 0.20 | 0.016 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.014 | ug/L | 0.20 | 0.014 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 193-39-5 | |
| 1-Methylnaphthalene | 16.7 | ug/L | 0.20 | 0.012 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 90-12-0 | |
| 2-Methylnaphthalene | 0.21 | ug/L | 0.20 | 0.011 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 91-57-6 | |
| Naphthalene | 0.80 | ug/L | 0.20 | 0.018 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 91-20-3 | |
| Phenanthrene | 2.0 | ug/L | 0.20 | 0.031 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 85-01-8 | |
| Pyrene | 0.084J | ug/L | 0.20 | 0.031 | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 62 | % | 40-130 | | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 321-60-8 | |
| Terphenyl-d14 (S) | 78 | % | 26-135 | | 4 | 04/20/15 08:30 | 04/21/15 15:34 | 1718-51-0 | |
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | 2.7 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:46 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 16:46 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 16:46 | 74-83-9 | |
| n-Butylbenzene | 2.3 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:46 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:46 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-2 **Lab ID: 40113317009** Collected: 04/14/15 15:40 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 16:46 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:46 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 16:46 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:46 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:46 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 16:46 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 16:46 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 16:46 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:46 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 16:46 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:46 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 16:46 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:46 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 16:46 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 16:46 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:46 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 108-20-3 | |
| Ethylbenzene | 0.74J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:46 | 87-68-3 | |
| Isopropylbenzene (Cumene) | 2.1 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 16:46 | 98-82-8 | |
| p-Isopropyltoluene | 1.3 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 16:46 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 16:46 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 16:46 | 91-20-3 | |
| n-Propylbenzene | 4.2 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:46 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 16:46 | 79-34-5 | |
| Tetrachloroethene | 0.77J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 127-18-4 | |
| Toluene | 1.7 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 16:46 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 16:46 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 16:46 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 16:46 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:46 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | 2.0 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 95-63-6 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: AMW-2 **Lab ID: 40113317009** Collected: 04/14/15 15:40 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 16:46 | 75-01-4 | |
| m&p-Xylene | 2.7 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 16:46 | 179601-23-1 | |
| o-Xylene | 1.0 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 16:46 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 70-130 | | 1 | | 04/20/15 16:46 | 460-00-4 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 04/20/15 16:46 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 04/20/15 16:46 | 2037-26-5 | |

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: OMW-1 **Lab ID: 40113317010** Collected: 04/14/15 16:20 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|--------|--------|----|----------------|----------------|-----------|------|
| 6010 MET ICP, Dissolved Analytical Method: EPA 6010 | | | | | | | | | |
| Arsenic, Dissolved | <7.2 | ug/L | 20.0 | 7.2 | 1 | | 04/22/15 20:19 | 7440-38-2 | |
| Barium, Dissolved | 271 | ug/L | 5.0 | 1.4 | 1 | | 04/22/15 20:19 | 7440-39-3 | |
| Cadmium, Dissolved | <0.60 | ug/L | 5.0 | 0.60 | 1 | | 04/22/15 20:19 | 7440-43-9 | |
| Chromium, Dissolved | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/22/15 20:19 | 7440-47-3 | |
| Lead, Dissolved | <3.0 | ug/L | 7.5 | 3.0 | 1 | | 04/22/15 20:19 | 7439-92-1 | |
| Selenium, Dissolved | <6.7 | ug/L | 20.0 | 6.7 | 1 | | 04/22/15 20:19 | 7782-49-2 | |
| Silver, Dissolved | <2.7 | ug/L | 10.0 | 2.7 | 1 | | 04/22/15 20:19 | 7440-22-4 | |
| 7470 Mercury, Dissolved Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | | |
| Mercury, Dissolved | <0.10 | ug/L | 0.20 | 0.10 | 1 | 04/29/15 13:05 | 04/30/15 09:36 | 7439-97-6 | |
| 8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510 | | | | | | | | | |
| Acenaphthene | 0.056 | ug/L | 0.049 | 0.0049 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 83-32-9 | |
| Acenaphthylene | 0.0091J | ug/L | 0.049 | 0.0048 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 208-96-8 | |
| Anthracene | 0.0098J | ug/L | 0.049 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 120-12-7 | |
| Benzo(a)anthracene | <0.0050 | ug/L | 0.049 | 0.0050 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 56-55-3 | |
| Benzo(a)pyrene | <0.0043 | ug/L | 0.049 | 0.0043 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0052 | ug/L | 0.049 | 0.0052 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0034 | ug/L | 0.049 | 0.0034 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0055 | ug/L | 0.049 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 207-08-9 | |
| Chrysene | <0.0042 | ug/L | 0.049 | 0.0042 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0055 | ug/L | 0.049 | 0.0055 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 53-70-3 | |
| Fluoranthene | <0.0092 | ug/L | 0.049 | 0.0092 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 206-44-0 | |
| Fluorene | 0.021J | ug/L | 0.049 | 0.0040 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 86-73-7 | |
| Indeno(1,2,3-cd)pyrene | <0.0035 | ug/L | 0.049 | 0.0035 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 193-39-5 | |
| 1-Methylnaphthalene | 1.4 | ug/L | 0.049 | 0.0030 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 90-12-0 | |
| 2-Methylnaphthalene | 1.2 | ug/L | 0.049 | 0.0027 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 91-57-6 | |
| Naphthalene | 2.5 | ug/L | 0.049 | 0.0044 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 91-20-3 | |
| Phenanthrene | 0.018J | ug/L | 0.049 | 0.0075 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 85-01-8 | |
| Pyrene | 0.0082J | ug/L | 0.049 | 0.0075 | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 129-00-0 | |
| Surrogates | | | | | | | | | |
| 2-Fluorobiphenyl (S) | 74 | % | 40-130 | | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 321-60-8 | |
| Terphenyl-d14 (S) | 97 | % | 26-135 | | 1 | 04/20/15 08:30 | 04/21/15 15:51 | 1718-51-0 | |
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | 6.1 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 17:09 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 17:09 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 17:09 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 104-51-8 | |
| sec-Butylbenzene | 2.6J | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 17:09 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 17:09 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 108-90-7 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: OMW-1 **Lab ID: 40113317010** Collected: 04/14/15 16:20 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 17:09 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 17:09 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 17:09 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 17:09 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 17:09 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 17:09 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 17:09 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 17:09 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 17:09 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 17:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 17:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 17:09 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 17:09 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 17:09 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 17:09 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 17:09 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 108-20-3 | |
| Ethylbenzene | 1.2 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 17:09 | 87-68-3 | |
| Isopropylbenzene (Cumene) | 3.0 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 17:09 | 98-82-8 | |
| p-Isopropyltoluene | 0.63J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 17:09 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 17:09 | 1634-04-4 | |
| Naphthalene | 3.8J | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 17:09 | 91-20-3 | |
| n-Propylbenzene | 10.2 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 17:09 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 17:09 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 127-18-4 | |
| Toluene | 1.2 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 17:09 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 17:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 17:09 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 17:09 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 17:09 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | 40.7 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 95-63-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: OMW-1 **Lab ID: 40113317010** Collected: 04/14/15 16:20 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------|-----------------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | Analytical Method: EPA 8260 | | | | | | | |
| 1,3,5-Trimethylbenzene | 15.2 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 17:09 | 75-01-4 | |
| m&p-Xylene | 12.7 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 17:09 | 179601-23-1 | |
| o-Xylene | 0.60J | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 17:09 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | | 1 | | 04/20/15 17:09 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 04/20/15 17:09 | 1868-53-7 | |
| Toluene-d8 (S) | 97 | % | 70-130 | | 1 | | 04/20/15 17:09 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: TRIP BLANK **Lab ID: 40113317011** Collected: 04/14/15 00:00 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| 8260 MSV Analytical Method: EPA 8260 | | | | | | | | | |
| Benzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 71-43-2 | |
| Bromobenzene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 14:09 | 108-86-1 | |
| Bromochloromethane | <0.34 | ug/L | 1.0 | 0.34 | 1 | | 04/20/15 14:09 | 74-97-5 | |
| Bromodichloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 75-27-4 | |
| Bromoform | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 75-25-2 | |
| Bromomethane | <2.4 | ug/L | 5.0 | 2.4 | 1 | | 04/20/15 14:09 | 74-83-9 | |
| n-Butylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 104-51-8 | |
| sec-Butylbenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 14:09 | 135-98-8 | |
| tert-Butylbenzene | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 14:09 | 98-06-6 | |
| Carbon tetrachloride | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 56-23-5 | |
| Chlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 108-90-7 | |
| Chloroethane | <0.37 | ug/L | 1.0 | 0.37 | 1 | | 04/20/15 14:09 | 75-00-3 | |
| Chloroform | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 14:09 | 67-66-3 | |
| Chloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 74-87-3 | |
| 2-Chlorotoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 95-49-8 | |
| 4-Chlorotoluene | <0.21 | ug/L | 1.0 | 0.21 | 1 | | 04/20/15 14:09 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 14:09 | 96-12-8 | |
| Dibromochloromethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 14:09 | 106-93-4 | |
| Dibromomethane | <0.43 | ug/L | 1.0 | 0.43 | 1 | | 04/20/15 14:09 | 74-95-3 | |
| 1,2-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 541-73-1 | |
| 1,4-Dichlorobenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 106-46-7 | |
| Dichlorodifluoromethane | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 04/20/15 14:09 | 75-71-8 | |
| 1,1-Dichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 04/20/15 14:09 | 75-34-3 | |
| 1,2-Dichloroethane | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 14:09 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/L | 1.0 | 0.41 | 1 | | 04/20/15 14:09 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 14:09 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 04/20/15 14:09 | 156-60-5 | |
| 1,2-Dichloropropane | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 14:09 | 78-87-5 | |
| 1,3-Dichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 142-28-9 | |
| 2,2-Dichloropropane | <0.48 | ug/L | 1.0 | 0.48 | 1 | | 04/20/15 14:09 | 594-20-7 | |
| 1,1-Dichloropropene | <0.44 | ug/L | 1.0 | 0.44 | 1 | | 04/20/15 14:09 | 563-58-6 | |
| cis-1,3-Dichloropropene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 14:09 | 10061-02-6 | |
| Diisopropyl ether | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 108-20-3 | |
| Ethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 100-41-4 | |
| Hexachloro-1,3-butadiene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 14:09 | 87-68-3 | |
| Isopropylbenzene (Cumene) | <0.14 | ug/L | 1.0 | 0.14 | 1 | | 04/20/15 14:09 | 98-82-8 | |
| p-Isopropyltoluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 99-87-6 | |
| Methylene Chloride | <0.23 | ug/L | 1.0 | 0.23 | 1 | | 04/20/15 14:09 | 75-09-2 | |
| Methyl-tert-butyl ether | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 04/20/15 14:09 | 1634-04-4 | |
| Naphthalene | <2.5 | ug/L | 5.0 | 2.5 | 1 | | 04/20/15 14:09 | 91-20-3 | |
| n-Propylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 103-65-1 | |
| Styrene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 14:09 | 630-20-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

Sample: TRIP BLANK **Lab ID: 40113317011** Collected: 04/14/15 00:00 Received: 04/17/15 08:45 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| 8260 MSV | | | | | | | | | |
| Analytical Method: EPA 8260 | | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 04/20/15 14:09 | 79-34-5 | |
| Tetrachloroethene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 127-18-4 | |
| Toluene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | <2.1 | ug/L | 5.0 | 2.1 | 1 | | 04/20/15 14:09 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | <2.2 | ug/L | 5.0 | 2.2 | 1 | | 04/20/15 14:09 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.20 | ug/L | 1.0 | 0.20 | 1 | | 04/20/15 14:09 | 79-00-5 | |
| Trichloroethene | <0.33 | ug/L | 1.0 | 0.33 | 1 | | 04/20/15 14:09 | 79-01-6 | |
| Trichlorofluoromethane | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 14:09 | 75-69-4 | |
| 1,2,3-Trichloropropane | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 108-67-8 | |
| Vinyl chloride | <0.18 | ug/L | 1.0 | 0.18 | 1 | | 04/20/15 14:09 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/L | 2.0 | 1.0 | 1 | | 04/20/15 14:09 | 179601-23-1 | |
| o-Xylene | <0.50 | ug/L | 1.0 | 0.50 | 1 | | 04/20/15 14:09 | 95-47-6 | |
| Surrogates | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 98 | % | 70-130 | | 1 | | 04/20/15 14:09 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 70-130 | | 1 | | 04/20/15 14:09 | 1868-53-7 | |
| Toluene-d8 (S) | 98 | % | 70-130 | | 1 | | 04/20/15 14:09 | 2037-26-5 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS
Pace Project No.: 40113317

QC Batch: ICP/10440 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010

METHOD BLANK: 1145108 Matrix: Water
Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------|-------|--------------|-----------------|----------------|------------|
| Arsenic, Dissolved | ug/L | <7.2 | 20.0 | 04/22/15 19:32 | |
| Barium, Dissolved | ug/L | <1.4 | 5.0 | 04/22/15 19:32 | |
| Cadmium, Dissolved | ug/L | <0.60 | 5.0 | 04/22/15 19:32 | |
| Chromium, Dissolved | ug/L | <2.1 | 5.0 | 04/22/15 19:32 | |
| Lead, Dissolved | ug/L | <3.0 | 7.5 | 04/22/15 19:32 | |
| Selenium, Dissolved | ug/L | <6.7 | 20.0 | 04/22/15 19:32 | |
| Silver, Dissolved | ug/L | <2.7 | 10.0 | 04/22/15 19:32 | |

LABORATORY CONTROL SAMPLE: 1145109

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------|-------|-------------|------------|-----------|--------------|------------|
| Arsenic, Dissolved | ug/L | 500 | 505 | 101 | 80-120 | |
| Barium, Dissolved | ug/L | 500 | 497 | 99 | 80-120 | |
| Cadmium, Dissolved | ug/L | 500 | 503 | 101 | 80-120 | |
| Chromium, Dissolved | ug/L | 500 | 515 | 103 | 80-120 | |
| Lead, Dissolved | ug/L | 500 | 493 | 99 | 80-120 | |
| Selenium, Dissolved | ug/L | 500 | 493 | 99 | 80-120 | |
| Silver, Dissolved | ug/L | 250 | 240 | 96 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1145110 1145111

| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---------------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 40113254010 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| Arsenic, Dissolved | ug/L | <7.2 | 500 | 500 | 528 | 512 | 106 | 102 | 75-125 | 3 | 20 |
| Barium, Dissolved | ug/L | 94.6 | 500 | 500 | 588 | 580 | 99 | 97 | 75-125 | 2 | 20 |
| Cadmium, Dissolved | ug/L | <0.60 | 500 | 500 | 517 | 506 | 103 | 101 | 75-125 | 2 | 20 |
| Chromium, Dissolved | ug/L | <2.1 | 500 | 500 | 522 | 509 | 104 | 102 | 75-125 | 3 | 20 |
| Lead, Dissolved | ug/L | <3.0 | 500 | 500 | 489 | 477 | 97 | 95 | 75-125 | 2 | 20 |
| Selenium, Dissolved | ug/L | <6.7 | 500 | 500 | 518 | 507 | 103 | 101 | 75-125 | 2 | 20 |
| Silver, Dissolved | ug/L | <2.7 | 250 | 250 | 242 | 229 | 97 | 92 | 75-125 | 5 | 20 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

QC Batch: MSV/28105 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010, 40113317011

METHOD BLANK: 1143627 Matrix: Water
 Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010, 40113317011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.18 | 1.0 | 04/20/15 07:22 | |
| 1,1,1-Trichloroethane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.25 | 1.0 | 04/20/15 07:22 | |
| 1,1,2-Trichloroethane | ug/L | <0.20 | 1.0 | 04/20/15 07:22 | |
| 1,1-Dichloroethane | ug/L | <0.24 | 1.0 | 04/20/15 07:22 | |
| 1,1-Dichloroethene | ug/L | <0.41 | 1.0 | 04/20/15 07:22 | |
| 1,1-Dichloropropene | ug/L | <0.44 | 1.0 | 04/20/15 07:22 | |
| 1,2,3-Trichlorobenzene | ug/L | <2.1 | 5.0 | 04/20/15 07:22 | |
| 1,2,3-Trichloropropane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,2,4-Trichlorobenzene | ug/L | <2.2 | 5.0 | 04/20/15 07:22 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.2 | 5.0 | 04/20/15 07:22 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.18 | 1.0 | 04/20/15 07:22 | |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,2-Dichloroethane | ug/L | <0.17 | 1.0 | 04/20/15 07:22 | |
| 1,2-Dichloropropane | ug/L | <0.23 | 1.0 | 04/20/15 07:22 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,3-Dichlorobenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,3-Dichloropropane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 1,4-Dichlorobenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 2,2-Dichloropropane | ug/L | <0.48 | 1.0 | 04/20/15 07:22 | |
| 2-Chlorotoluene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| 4-Chlorotoluene | ug/L | <0.21 | 1.0 | 04/20/15 07:22 | |
| Benzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Bromobenzene | ug/L | <0.23 | 1.0 | 04/20/15 07:22 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 04/20/15 07:22 | |
| Bromodichloromethane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Bromoform | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Bromomethane | ug/L | <2.4 | 5.0 | 04/20/15 07:22 | |
| Carbon tetrachloride | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Chlorobenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Chloroethane | ug/L | <0.37 | 1.0 | 04/20/15 07:22 | |
| Chloroform | ug/L | <2.5 | 5.0 | 04/20/15 07:22 | |
| Chloromethane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| cis-1,2-Dichloroethene | ug/L | <0.26 | 1.0 | 04/20/15 07:22 | |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Dibromochloromethane | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Dibromomethane | ug/L | <0.43 | 1.0 | 04/20/15 07:22 | |
| Dichlorodifluoromethane | ug/L | <0.22 | 1.0 | 04/20/15 07:22 | |
| Diisopropyl ether | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

METHOD BLANK: 1143627

Matrix: Water

Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010, 40113317011

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Hexachloro-1,3-butadiene | ug/L | <2.1 | 5.0 | 04/20/15 07:22 | |
| Isopropylbenzene (Cumene) | ug/L | <0.14 | 1.0 | 04/20/15 07:22 | |
| m&p-Xylene | ug/L | <1.0 | 2.0 | 04/20/15 07:22 | |
| Methyl-tert-butyl ether | ug/L | <0.17 | 1.0 | 04/20/15 07:22 | |
| Methylene Chloride | ug/L | <0.23 | 1.0 | 04/20/15 07:22 | |
| n-Butylbenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| n-Propylbenzene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Naphthalene | ug/L | <2.5 | 5.0 | 04/20/15 07:22 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| p-Isopropyltoluene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| sec-Butylbenzene | ug/L | <2.2 | 5.0 | 04/20/15 07:22 | |
| Styrene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| tert-Butylbenzene | ug/L | <0.18 | 1.0 | 04/20/15 07:22 | |
| Tetrachloroethene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| Toluene | ug/L | <0.50 | 1.0 | 04/20/15 07:22 | |
| trans-1,2-Dichloroethene | ug/L | <0.26 | 1.0 | 04/20/15 07:22 | |
| trans-1,3-Dichloropropene | ug/L | <0.23 | 1.0 | 04/20/15 07:22 | |
| Trichloroethene | ug/L | <0.33 | 1.0 | 04/20/15 07:22 | |
| Trichlorofluoromethane | ug/L | <0.18 | 1.0 | 04/20/15 07:22 | |
| Vinyl chloride | ug/L | <0.18 | 1.0 | 04/20/15 07:22 | |
| 4-Bromofluorobenzene (S) | % | 97 | 70-130 | 04/20/15 07:22 | |
| Dibromofluoromethane (S) | % | 98 | 70-130 | 04/20/15 07:22 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 04/20/15 07:22 | |

LABORATORY CONTROL SAMPLE & LCSD: 1143628

1143629

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|
| 1,1,1-Trichloroethane | ug/L | 50 | 55.5 | 55.9 | 111 | 112 | 70-130 | 1 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 50.3 | 51.0 | 101 | 102 | 70-130 | 1 | 20 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 52.9 | 53.4 | 106 | 107 | 70-130 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | 50 | 54.3 | 55.1 | 109 | 110 | 70-130 | 1 | 20 | |
| 1,1-Dichloroethene | ug/L | 50 | 57.7 | 58.6 | 115 | 117 | 70-130 | 1 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 48.4 | 48.7 | 97 | 97 | 70-130 | 0 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 50.3 | 51.7 | 101 | 103 | 50-150 | 3 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 53.5 | 53.2 | 107 | 106 | 70-130 | 1 | 20 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 49.6 | 49.4 | 99 | 99 | 70-130 | 0 | 20 | |
| 1,2-Dichloroethane | ug/L | 50 | 52.6 | 53.1 | 105 | 106 | 70-131 | 1 | 20 | |
| 1,2-Dichloropropane | ug/L | 50 | 54.5 | 53.4 | 109 | 107 | 70-130 | 2 | 20 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 50.5 | 51.0 | 101 | 102 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 48.9 | 49.5 | 98 | 99 | 70-130 | 1 | 20 | |
| Benzene | ug/L | 50 | 53.9 | 54.4 | 108 | 109 | 70-130 | 1 | 20 | |
| Bromodichloromethane | ug/L | 50 | 52.7 | 53.0 | 105 | 106 | 70-130 | 1 | 20 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| LABORATORY CONTROL SAMPLE & LCSD: | | 1143628 | | 1143629 | | | | | | | |
|-----------------------------------|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers | |
| Bromoform | ug/L | 50 | 51.2 | 52.7 | 102 | 105 | 68-130 | 3 | 20 | | |
| Bromomethane | ug/L | 50 | 33.9 | 41.9 | 68 | 84 | 38-137 | 21 | 20 | R1 | |
| Carbon tetrachloride | ug/L | 50 | 55.1 | 55.8 | 110 | 112 | 70-130 | 1 | 20 | | |
| Chlorobenzene | ug/L | 50 | 51.3 | 51.8 | 103 | 104 | 70-130 | 1 | 20 | | |
| Chloroethane | ug/L | 50 | 55.0 | 55.3 | 110 | 111 | 70-136 | 1 | 20 | | |
| Chloroform | ug/L | 50 | 53.4 | 53.2 | 107 | 106 | 70-130 | 0 | 20 | | |
| Chloromethane | ug/L | 50 | 52.5 | 54.0 | 105 | 108 | 48-144 | 3 | 20 | | |
| cis-1,2-Dichloroethene | ug/L | 50 | 54.5 | 54.8 | 109 | 110 | 70-130 | 1 | 20 | | |
| cis-1,3-Dichloropropene | ug/L | 50 | 53.3 | 52.9 | 107 | 106 | 70-130 | 1 | 20 | | |
| Dibromochloromethane | ug/L | 50 | 51.5 | 51.7 | 103 | 103 | 70-130 | 1 | 20 | | |
| Dichlorodifluoromethane | ug/L | 50 | 58.3 | 58.0 | 117 | 116 | 33-157 | 1 | 20 | | |
| Ethylbenzene | ug/L | 50 | 53.1 | 53.7 | 106 | 107 | 70-132 | 1 | 20 | | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 53.4 | 53.9 | 107 | 108 | 70-130 | 1 | 20 | | |
| m&p-Xylene | ug/L | 100 | 108 | 108 | 108 | 108 | 70-131 | 1 | 20 | | |
| Methyl-tert-butyl ether | ug/L | 50 | 55.1 | 55.4 | 110 | 111 | 48-141 | 1 | 20 | | |
| Methylene Chloride | ug/L | 50 | 50.7 | 51.4 | 101 | 103 | 70-130 | 1 | 20 | | |
| o-Xylene | ug/L | 50 | 54.1 | 53.2 | 108 | 106 | 70-131 | 2 | 20 | | |
| Styrene | ug/L | 50 | 53.3 | 53.7 | 107 | 107 | 70-130 | 1 | 20 | | |
| Tetrachloroethene | ug/L | 50 | 53.1 | 51.8 | 106 | 104 | 70-130 | 3 | 20 | | |
| Toluene | ug/L | 50 | 53.6 | 53.5 | 107 | 107 | 70-130 | 0 | 20 | | |
| trans-1,2-Dichloroethene | ug/L | 50 | 56.9 | 57.1 | 114 | 114 | 70-130 | 0 | 20 | | |
| trans-1,3-Dichloropropene | ug/L | 50 | 51.0 | 51.8 | 102 | 104 | 70-130 | 1 | 20 | | |
| Trichloroethene | ug/L | 50 | 54.2 | 53.7 | 108 | 107 | 70-130 | 1 | 20 | | |
| Trichlorofluoromethane | ug/L | 50 | 57.4 | 57.3 | 115 | 115 | 50-150 | 0 | 20 | | |
| Vinyl chloride | ug/L | 50 | 57.9 | 59.2 | 116 | 118 | 65-142 | 2 | 20 | | |
| 4-Bromofluorobenzene (S) | % | | | | 103 | 102 | 70-130 | | | | |
| Dibromofluoromethane (S) | % | | | | 101 | 101 | 70-130 | | | | |
| Toluene-d8 (S) | % | | | | 98 | 97 | 70-130 | | | | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: | | 1143661 | | 1143662 | | | | | | | |
|--|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|
| Parameter | Units | MS | | MSD | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| | | 40113336002 Result | Spike Conc. | Spike Conc. | MS Result | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 14.6 | 50 | 50 | 71.9 | 70.9 | 115 | 113 | 70-130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.25 | 50 | 50 | 51.8 | 49.6 | 104 | 99 | 70-130 | 4 | 20 |
| 1,1,2-Trichloroethane | ug/L | <0.20 | 50 | 50 | 54.3 | 52.4 | 109 | 105 | 70-130 | 4 | 20 |
| 1,1-Dichloroethane | ug/L | 12.5 | 50 | 50 | 68.0 | 67.8 | 111 | 111 | 70-134 | 0 | 20 |
| 1,1-Dichloroethene | ug/L | 5.4 | 50 | 50 | 65.3 | 63.5 | 120 | 116 | 70-139 | 3 | 20 |
| 1,2,4-Trichlorobenzene | ug/L | <2.2 | 50 | 50 | 50.5 | 49.8 | 100 | 99 | 70-130 | 2 | 20 |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.2 | 50 | 50 | 51.1 | 51.9 | 102 | 104 | 50-150 | 1 | 20 |
| 1,2-Dibromoethane (EDB) | ug/L | <0.18 | 50 | 50 | 54.1 | 53.3 | 108 | 107 | 70-130 | 2 | 20 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 50.2 | 50.3 | 100 | 101 | 70-130 | 0 | 20 |
| 1,2-Dichloroethane | ug/L | <0.17 | 50 | 50 | 54.3 | 54.2 | 109 | 108 | 70-132 | 0 | 20 |
| 1,2-Dichloropropane | ug/L | <0.23 | 50 | 50 | 55.7 | 55.1 | 111 | 110 | 70-130 | 1 | 20 |

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Parameter | Units | 1143661 | | 1143662 | | MS % Rec | MSD % Rec | % Rec | Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-----------------------|----------------------|-----------------------|--------------|-------------|--------------|-------|--------|-----|------------|------|
| | | 40113336002 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | | |
| 1,3-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 51.3 | 49.7 | 103 | 99 | 70-130 | 3 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 49.6 | 49.2 | 99 | 98 | 70-130 | 1 | 20 | |
| Benzene | ug/L | <0.50 | 50 | 50 | 55.7 | 54.9 | 111 | 110 | 70-130 | 1 | 20 | |
| Bromodichloromethane | ug/L | <0.50 | 50 | 50 | 54.6 | 53.4 | 109 | 107 | 70-132 | 2 | 20 | |
| Bromoform | ug/L | <0.50 | 50 | 50 | 53.7 | 52.2 | 107 | 104 | 68-130 | 3 | 20 | |
| Bromomethane | ug/L | <2.4 | 50 | 50 | 43.7 | 44.6 | 87 | 89 | 38-141 | 2 | 20 | |
| Carbon tetrachloride | ug/L | <0.50 | 50 | 50 | 57.1 | 56.1 | 114 | 112 | 70-130 | 2 | 20 | |
| Chlorobenzene | ug/L | <0.50 | 50 | 50 | 53.4 | 51.8 | 107 | 104 | 70-130 | 3 | 20 | |
| Chloroethane | ug/L | <0.37 | 50 | 50 | 56.3 | 55.6 | 113 | 111 | 66-152 | 1 | 20 | |
| Chloroform | ug/L | <2.5 | 50 | 50 | 54.4 | 53.3 | 108 | 106 | 70-130 | 2 | 20 | |
| Chloromethane | ug/L | <0.50 | 50 | 50 | 55.5 | 54.6 | 111 | 109 | 44-151 | 2 | 20 | |
| cis-1,2-Dichloroethene | ug/L | 9.4 | 50 | 50 | 65.8 | 64.5 | 113 | 110 | 70-130 | 2 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 50 | 50 | 54.3 | 53.5 | 109 | 107 | 70-130 | 1 | 20 | |
| Dibromochloromethane | ug/L | <0.50 | 50 | 50 | 53.5 | 51.7 | 107 | 103 | 70-130 | 3 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.22 | 50 | 50 | 56.9 | 55.3 | 114 | 111 | 29-160 | 3 | 20 | |
| Ethylbenzene | ug/L | <0.50 | 50 | 50 | 56.2 | 53.4 | 112 | 107 | 70-132 | 5 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.14 | 50 | 50 | 55.7 | 53.8 | 111 | 108 | 70-130 | 3 | 20 | |
| m&p-Xylene | ug/L | <1.0 | 100 | 100 | 112 | 108 | 112 | 108 | 70-131 | 4 | 20 | |
| Methyl-tert-butyl ether | ug/L | <0.17 | 50 | 50 | 56.0 | 55.8 | 112 | 112 | 48-143 | 0 | 20 | |
| Methylene Chloride | ug/L | <0.23 | 50 | 50 | 52.5 | 51.2 | 105 | 102 | 70-130 | 2 | 20 | |
| o-Xylene | ug/L | <0.50 | 50 | 50 | 54.9 | 53.3 | 110 | 107 | 70-131 | 3 | 20 | |
| Styrene | ug/L | <0.50 | 50 | 50 | 56.0 | 53.9 | 112 | 108 | 70-130 | 4 | 20 | |
| Tetrachloroethene | ug/L | 48.2 | 50 | 50 | 102 | 97.2 | 108 | 98 | 70-130 | 5 | 20 | |
| Toluene | ug/L | <0.50 | 50 | 50 | 55.3 | 53.1 | 111 | 106 | 70-130 | 4 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <0.26 | 50 | 50 | 57.8 | 57.2 | 116 | 114 | 70-132 | 1 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <0.23 | 50 | 50 | 53.1 | 51.6 | 106 | 103 | 70-130 | 3 | 20 | |
| Trichloroethene | ug/L | 5.0 | 50 | 50 | 61.5 | 60.1 | 113 | 110 | 70-130 | 2 | 20 | |
| Trichlorofluoromethane | ug/L | <0.18 | 50 | 50 | 58.1 | 56.7 | 116 | 113 | 50-153 | 3 | 20 | |
| Vinyl chloride | ug/L | <0.18 | 50 | 50 | 60.4 | 58.9 | 121 | 118 | 60-155 | 2 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 104 | 101 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 100 | 101 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 98 | 70-130 | | | |

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

QC Batch: OEXT/26272 Analysis Method: EPA 8270 by HVI
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
 Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010

METHOD BLANK: 1144035 Matrix: Water
 Associated Lab Samples: 40113317001, 40113317002, 40113317003, 40113317004, 40113317005, 40113317006, 40113317007, 40113317008, 40113317009, 40113317010

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|--------------|-----------------|----------------|------------|
| 1-Methylnaphthalene | ug/L | <0.0031 | 0.050 | 04/20/15 18:08 | |
| 2-Methylnaphthalene | ug/L | <0.0028 | 0.050 | 04/20/15 18:08 | |
| Acenaphthene | ug/L | <0.0050 | 0.050 | 04/20/15 18:08 | |
| Acenaphthylene | ug/L | <0.0049 | 0.050 | 04/20/15 18:08 | |
| Anthracene | ug/L | <0.0040 | 0.050 | 04/20/15 18:08 | |
| Benzo(a)anthracene | ug/L | <0.0051 | 0.050 | 04/20/15 18:08 | |
| Benzo(a)pyrene | ug/L | <0.0044 | 0.050 | 04/20/15 18:08 | |
| Benzo(b)fluoranthene | ug/L | <0.0053 | 0.050 | 04/20/15 18:08 | |
| Benzo(g,h,i)perylene | ug/L | <0.0035 | 0.050 | 04/20/15 18:08 | |
| Benzo(k)fluoranthene | ug/L | <0.0056 | 0.050 | 04/20/15 18:08 | |
| Chrysene | ug/L | <0.0042 | 0.050 | 04/20/15 18:08 | |
| Dibenz(a,h)anthracene | ug/L | <0.0056 | 0.050 | 04/20/15 18:08 | |
| Fluoranthene | ug/L | <0.0094 | 0.050 | 04/20/15 18:08 | |
| Fluorene | ug/L | <0.0040 | 0.050 | 04/20/15 18:08 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.0036 | 0.050 | 04/20/15 18:08 | |
| Naphthalene | ug/L | <0.0045 | 0.050 | 04/20/15 18:08 | |
| Phenanthrene | ug/L | <0.0077 | 0.050 | 04/20/15 18:08 | |
| Pyrene | ug/L | <0.0077 | 0.050 | 04/20/15 18:08 | |
| 2-Fluorobiphenyl (S) | % | 79 | 40-130 | 04/20/15 18:08 | |
| Terphenyl-d14 (S) | % | 119 | 26-135 | 04/20/15 18:08 | |

| Parameter | Units | 1144036 | | 1144037 | | % Rec | % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|-----------------------|-------|-------------|------------|-------------|-----------|-------|--------|--------------|-----|---------|------------|
| | | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | | | | | | |
| 1-Methylnaphthalene | ug/L | 2 | 1.4 | 1.3 | 71 | 66 | 46-130 | 7 | 31 | | |
| 2-Methylnaphthalene | ug/L | 2 | 1.5 | 1.4 | 73 | 68 | 47-130 | 7 | 32 | | |
| Acenaphthene | ug/L | 2 | 1.6 | 1.5 | 80 | 75 | 49-130 | 6 | 28 | | |
| Acenaphthylene | ug/L | 2 | 1.5 | 1.4 | 73 | 68 | 44-130 | 8 | 29 | | |
| Anthracene | ug/L | 2 | 1.4 | 1.3 | 72 | 66 | 53-130 | 9 | 24 | | |
| Benzo(a)anthracene | ug/L | 2 | 1.6 | 1.6 | 81 | 81 | 49-130 | 0 | 20 | | |
| Benzo(a)pyrene | ug/L | 2 | 1.5 | 1.6 | 77 | 79 | 47-130 | 3 | 20 | | |
| Benzo(b)fluoranthene | ug/L | 2 | 2.0 | 1.9 | 98 | 93 | 54-133 | 5 | 20 | | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.2 | 1.4 | 62 | 70 | 33-132 | 12 | 20 | | |
| Benzo(k)fluoranthene | ug/L | 2 | 1.8 | 1.8 | 89 | 92 | 59-143 | 3 | 20 | | |
| Chrysene | ug/L | 2 | 2.3 | 2.3 | 113 | 116 | 70-157 | 3 | 20 | | |
| Dibenz(a,h)anthracene | ug/L | 2 | 1.1 | 1.1 | 53 | 57 | 24-130 | 8 | 20 | | |
| Fluoranthene | ug/L | 2 | 1.8 | 1.8 | 88 | 89 | 59-130 | 1 | 20 | | |
| Fluorene | ug/L | 2 | 1.6 | 1.5 | 79 | 75 | 49-130 | 6 | 27 | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| LABORATORY CONTROL SAMPLE & LCSD: 1144036 | | 1144037 | | | | | | | | | |
|---|-------|-------------|------------|-------------|-----------|------------|--------------|-----|---------|------------|--|
| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.6 | 1.7 | 78 | 86 | 52-130 | 10 | 20 | | |
| Naphthalene | ug/L | 2 | 1.4 | 1.3 | 70 | 65 | 45-130 | 7 | 29 | | |
| Phenanthrene | ug/L | 2 | 1.6 | 1.6 | 80 | 79 | 60-130 | 2 | 22 | | |
| Pyrene | ug/L | 2 | 2.0 | 2.0 | 98 | 100 | 64-147 | 2 | 20 | | |
| 2-Fluorobiphenyl (S) | % | | | | 82 | 75 | 40-130 | | | | |
| Terphenyl-d14 (S) | % | | | | 112 | 108 | 26-135 | | | | |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSSV/7800

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 19-0558.00 TWO RIVERS

Pace Project No.: 40113317

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|------------|-------------------|------------------|
| 40113317001 | APZ-1 | EPA 6010 | ICP/10440 | | |
| 40113317002 | AMW-1 | EPA 6010 | ICP/10440 | | |
| 40113317003 | AMW-3 | EPA 6010 | ICP/10440 | | |
| 40113317004 | AMW-6 | EPA 6010 | ICP/10440 | | |
| 40113317005 | AMW-5 | EPA 6010 | ICP/10440 | | |
| 40113317006 | AMW-4 | EPA 6010 | ICP/10440 | | |
| 40113317007 | APZ-4 | EPA 6010 | ICP/10440 | | |
| 40113317008 | APZ-2 | EPA 6010 | ICP/10440 | | |
| 40113317009 | AMW-2 | EPA 6010 | ICP/10440 | | |
| 40113317010 | OMW-1 | EPA 6010 | ICP/10440 | | |
| 40113317001 | APZ-1 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317002 | AMW-1 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317003 | AMW-3 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317004 | AMW-6 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317005 | AMW-5 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317006 | AMW-4 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317007 | APZ-4 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317008 | APZ-2 | EPA 7470 | MERP/4883 | EPA 7470 | MERC/6650 |
| 40113317009 | AMW-2 | EPA 7470 | MERP/4897 | EPA 7470 | MERC/6673 |
| 40113317010 | OMW-1 | EPA 7470 | MERP/4897 | EPA 7470 | MERC/6673 |
| 40113317001 | APZ-1 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317002 | AMW-1 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317003 | AMW-3 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317004 | AMW-6 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317005 | AMW-5 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317006 | AMW-4 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317007 | APZ-4 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317008 | APZ-2 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317009 | AMW-2 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317010 | OMW-1 | EPA 3510 | OEXT/26272 | EPA 8270 by HVI | MSSV/7800 |
| 40113317001 | APZ-1 | EPA 8260 | MSV/28105 | | |
| 40113317002 | AMW-1 | EPA 8260 | MSV/28105 | | |
| 40113317003 | AMW-3 | EPA 8260 | MSV/28105 | | |
| 40113317004 | AMW-6 | EPA 8260 | MSV/28105 | | |
| 40113317005 | AMW-5 | EPA 8260 | MSV/28105 | | |
| 40113317006 | AMW-4 | EPA 8260 | MSV/28105 | | |
| 40113317007 | APZ-4 | EPA 8260 | MSV/28105 | | |
| 40113317008 | APZ-2 | EPA 8260 | MSV/28105 | | |
| 40113317009 | AMW-2 | EPA 8260 | MSV/28105 | | |
| 40113317010 | OMW-1 | EPA 8260 | MSV/28105 | | |
| 40113317011 | TRIP BLANK | EPA 8260 | MSV/28105 | | |

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Ayres Associates
 Branch/Location: Madison, WI
 Project Contact: Jeff Steiner
 Phone: (608) 443-1200
 Project Number: 19-0358.00
 Project Name: Two Rivers
 Project State: Wisconsin
 Sampled By (Print): EG & JS
 Sampled By (Sign): Ecin Blum
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1760 WI: 920-469-2436

40113317

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

| Y/M | N | N | Y | | | | | | | |
|--------------------|-----|-----|-------------|--|--|--|--|--|--|--|
| Pick Letter | B | A | D | | | | | | | |
| Analyses Requested | VOC | PAH | PCRA metals | | | | | | | |

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION | | MATRIX | VOC | PAH | PCRA metals |
|------------|-----------------|------------|----------|--------|-----|-----|-------------|
| | | DATE | TIME | | | | |
| 001 | APZ-1 | 4/14/15 | 10:25 AM | GW | X | X | X |
| 002 | AMW-1 | 4/14 | 10:45 | GW | X | X | X |
| 003 | AMW-3 | 4/14 | 11:30 AM | GW | X | X | X |
| 004 | AMW-6 | 4/14 | 12:05 PM | GW | X | X | X |
| 005 | AMW-5 | 4/14 | 12:45 PM | GW | X | X | X |
| 006 | AMW-4 | 4/14 | 2:10 PM | GW | X | X | X |
| 007 | APZ-4 | 4/14 | 2:30 PM | GW | X | X | X |
| 008 | APZ-2 | 4/14 | 3:05 PM | GW | X | X | X |
| 009 | AMW-2 | 4/14 | 3:40 PM | GW | X | X | X |
| 010 | OMW-1 | 4/14 | 4:20 PM | GW | X | X | X |
| 011 | TRIP BLANK | | | | X | | |

Quote #: _____

Mail To Contact: Jeff Steiner

Mail To Company: Ayres Associates

Mail To Address: 5201 E Terrace Dr
Madison, WI 53718

Invoice To Contact: Jeff Steiner

Invoice To Company: Ayres Associates

Invoice To Address: 3433 Oakwood Hills Pkwy
Cedar Grove, WI 54701

Invoice To Phone: (715) 831-7511

CLIENT COMMENTS: Send EDD

LAB COMMENTS (Lab Use Only): 3-4 ONLY, 1-25 ONLY, 2-25 ONLY, 2-4 ONLY

Profile #: 100

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Ecin Blum Date/Time: 4/16/15 1400

Relinquished By: Marko Date/Time: 4/17/15 0845

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: Anthony Date/Time: 4/16/15 12:08

Received By: Marko Gonzalez Date/Time: 4/17/15 0845

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. 40113317

Receipt Temp = 20°C

Sample Receipt pH OK/Adjusted

Cooler Custody Seal Present/Not Present Intact/Not Intact

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Client Name: AYRES ASSOCIATES Project #

WO#: 40113317

Courier: Fed Ex UPS Client Pace Other: Walco
Tracking #: 770582-1



Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: RoF Type of Ice: Wet Blue Dry None

Cooler Temperature: Uncorr: RoF /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 4/17/15
Initials: ME

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Table with 15 rows of inspection criteria and checkboxes. Includes items like Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, Headspace in VOA Vials, Trip Blank Present, Trip Blank Custody Seals Present, Pace Trip Blank Lot #.

Client Notification/ Resolution: If checked, see attached form for additional comments

Person Contacted: Date/Time:
Comments/ Resolution: Client returned 18-3-Yonly ME 4/17/15

Project Manager Review: Date: 4/17/15