FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

QUARTERLY GROUNDWATER MONITORING REPORT

FORMER ONE HOUR MARTINIZING
1923 MAIN ST
GREEN BAY, WI

BRRTS # 02-05-217276

Prepared for:
Wisconsin Department of Natural Resources
2984 Shawano Avenue
Green Bay, WI 54313

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1.0 INTRODUCTION AND BACKGROUND

1.1 Site Description and History

The former One Hour Martinizing (OHM) Main Street facility was located on the north side of Main Street at 1923 Main Street. The property was irregularly shaped and consisted of approximately 1.2 acres. The former trapezoidal building was slab on grade in a vacant small strip mall that formerly contained four stores with various businesses.

The property history is not fully known, but based on information from previous reports; a structure was built in approximately 1960, with expansions to the west in the mid 60's to 1970's. The drycleaner was always present on the western end of the building, and operated from 1979 to 2008. The dry-cleaning machine was present approximately 20 feet east of the west wall along the eastern edge of the dry-cleaning store space. The former drycleaning operations utilized tetrachloroethene (PCE).

The dry-cleaning machine has been removed, the above-grade structures of the building were demolished by the owner in 2013, and the building concrete floor and footings remained intact until redevelopment of the property began in Spring-Summer 2016.

The property is currently irregularly shaped, consists of approximately 1.07 acres, owned by Floss Daily, LLC and has been redeveloped as Familia Dental with associated asphalt, concrete, a 5,000 square foot building and landscaped areas (Appendix A).

1.2 Project Background

Soil samples were obtained in 1999, and a release to the environment was reported to the Wisconsin Department of Natural Resources (WDNR). Due to the presence of contamination, a site investigation was required to determine the degree and extent of contamination in the soil and groundwater.

The site investigation was completed primarily by STS, Inc. Green Bay, WI, with borings and wells installed from 1999 to 2001. Groundwater sampling occurred at the ten well monitoring network through 2007, including off-site wells to the west and south. In October 2010, an additional round of groundwater samples and two soil borings were advanced to evaluate more recent conditions. The results have been compiled in reports that have been previously submitted to the WDNR.

As part of the remedial action that was won by competitive bid by Alpha Terra Science (now Fehr-Graham), soil borings and an additional round of groundwater samples were obtained in December 2012.

Historical Soil Contamination

In an effort to delineate the historic soil contamination on the property, Fehr-Graham collected 27 soil samples from 12 soil borings (B-10 to B-21) located within and outside the former building in December 2012. Groundwater samples from the ten site wells were also obtained in December 2012.

Soil chemistry results indicated relatively low concentrations of PCE were present in soil as there were no PCE concentrations that exceeded the non-industrial direct contact Residual Contaminant Level (RCL) (Table A.2). However, the PCE in soil presented a risk for leaching

to groundwater at many locations on the property. Per WDNR, the generic concentration of PCE that can be present in soil and leach contaminants to the groundwater at levels above the NR 140 standards is only 4.5 micrograms per kilogram (ug/kg), which is the groundwater pathway soil RCL.

The most contaminated soil sample was obtained from boring HA-1, located under the floor of the former building immediately west of the former dry cleaning machine. In 1999, the soil at this location contained approximately 4,100 ug/kg PCE in soil from depths of approximately 1.5 to 2.5 feet below grade. In 2010, follow up soil samples were obtained from this location (HA-1R), with a detection of approximately 410 ug/kg PCE in soil from a depth of 3.5 to 4 feet below grade. The depth to water at this location was between approximately 3 and 5 feet below grade.

The highest detection of PCE in soil outside the former building was from boring B-16, located just to the east of MW-3, which had the most contaminated groundwater levels at the site. The soil at this location contained approximately 2,320 ug/kg PCE in soil from depths of approximately 4 to 4.5 feet below grade. Soil at MW-3 contained 122 ug/kg PCE at a depth of 3 to 5 feet, so the extent of elevated PCE was not widespread. The depth to water at this location was approximately 5 feet below grade.

The soil chemistry results are attached on Table A.2 and Figure 3.

Historical Groundwater Contamination

Groundwater monitoring has been ongoing since June 1999 / January 2000 from a network of nine water table wells and a piezometer. In April 2015, a network of groundwater monitoring wells were installed property wide by General Engineering Company (GEC) as part of a separate petroleum release site investigation. Fehr Graham has been sampling two of these wells (GEC TW-4 and GEC TW-5) since September 2015 in order to aid in contaminant plume delineation (Table A.1). Results from the most recent groundwater sampling event in December 2016 are included in this report.

Remedial Excavation Activities

The excavation activities took place on August 5-6, 2015. Prior to the commencement of the excavation, Digger's Hotline was called to locate all present exterior utilities, both active and decommissioned. It was believed that all utilities had been capped and properly decommissioned as required by code. During the excavation of Area B, a 10-12-inch pipe was uncovered at the east end of Area B at a depth of three feet below ground surface. There was no porous material surrounding the pipe to indicate that it had recently been an active line. No other utilities that had not been previously identified were encountered in any other area.

As the low bidder, Foust Excavating Inc. (Foust), Oshkosh, WI was awarded the contract for remedial excavation services. A standard backhoe/excavator and dump trucks were used for the excavation activities and no stockpiling of contaminated soil occurred at the site.

Per the WDNR approved Scope of Work, the excavation extended to a depth of 6 feet below grade, which was slightly below the water table.

A concrete saw was used by the Contractor for cutting and removing the concrete and asphalt from the four excavation areas prior to excavation activities. Approximately 30.65-tons of concrete from the immediate area near the dry-cleaning machine (approximately 10–foot x 10-

foot area), the concrete floor from the building and the building footings, and the exterior asphalt was disposed of off-site by Foust.

A total of 570.86 tons of PCE impacted soil was removed from the site, with direct loading and hauling to Advanced Disposal's Hickory Meadows subtitle D landfill in Hilbert, Wisconsin by Foust (disposal documentation included in Appendix B). Pictures of the excavation operations are shown in Appendix C.

Prior to excavation activities, groundwater monitoring well MW-3 was properly abandoned by Fehr Graham. Fehr Graham replaced MW-3 with a 2-inch PVC sump (SMW-3). Although the excavation was to a depth of six feet, a hole was dug to approximately 15-feet bgs (10-foot screen) allowing the screen to be located below the water table, so it can act as a future groundwater monitoring point. The sump included a ten-foot slotted interval, and was completed flush with the ground surface, with a traffic-weight cover. Fehr Graham provided the sump construction materials and flush mounted cover; the contractor assisted with installation and provided the 21.85-tons of pea gravel backfill that was placed around the screen to a depth of 15.30-feet below grade.

Following excavations, Fehr Graham staff collected fifteen (15) composite soil samples of one to four feet below ground surface at the perimeter (sidewalls) of the four excavation areas to document the Volatile Organic Compound (VOC) chemistry of the remaining in-place soil. These samples were additionally screened in the field for the potential presence of contamination through visual inspection and headspace analysis using a ThermoEnvironmental Instruments photoionization detector (PID) equipped with a 10.2 eV lamp. Approximately 50/50 mixture of air and soil was placed in a zippered plastic bag, agitated and allowed to de-gas. The headspace gasses in the bag were then be tested for volatile organic content using the PID. PID readings ranged from 0.0 parts per million (ppm) to 0.8 ppm (Table A.2). Floor samples were not retained, as the floor was below the water table surface, and the samples would not be representative of soil chemistry results.

Samples were handled according to standard procedures and using appropriate WDNR approved sampling methods. Approximately 10 cubic centimeters of soil were measured in a dedicated plastic syringe and extruded into laboratory-provided sample jars that were pre-preserved with laboratory grade methanol.

Disposable nitrile gloves were worn during all soil sampling activities, and gloves were changed between sample locations to prevent cross contamination. After collection, all samples were stored in a cooler with ice or refrigerated until delivered to the laboratory. Samples were delivered via courier under chain-of-custody procedures to Pace Analytical in Green Bay, WI for analysis. All required holding times for samples were maintained.

Engineered Backfill

The excavations extended slightly below the water table interface and some water entered the excavations during digging. Where there was ponded water, 2-inch clear stone was placed in the excavation base (59.59-tons) prior to backfilling.

Backfill consisted of 386.76-tons of brown silty sand with trace gravel obtained from the Ulmen Quarry in Green Bay, WI. In order to confirm the adequacy of compaction of the backfill materials, a Proctor test was performed on the proposed fill materials prior to backfilling. The established Proctor density of the fill was then used in conjunction with field densities established via density testing to determine compaction levels being achieved.

Compaction was performed in approximate one-foot lifts using a rolling vibratory compactor. Compaction testing was performed after each lift at each of the four excavation areas, per standard construction practices. The geotechnical documentation is included in Appendix D.

The top foot of backfill consisted of 156.52-tons of traffic bon or equivalent (i.e., quarry screenings) compactable fill, to provide a hard, drivable traffic surface. The final site surface was left like this until redevelopment activities began in Spring-Summer 2016 and can be seen in Appendix C.

Remedial Excavation Soil Laboratory Results

Soil chemistry results from the August 2015 remedial excavation have been summarized on Table A.2 and Figure 4. The WDNR has established generic soil Residual Contaminant Levels (RCLs) in accordance with NR 720, Wis. Adm. Code (soil cleanup standards). The soil sample analytical results were compared to their respective WDNR Groundwater Pathway RCLs and Non-Industrial Direct Contact RCLs based on the use of the subject property.

As expected, a majority of the excavation sidewall sample results indicated the soil contained elevated PCE concentrations above the groundwater pathway RCLs at all four excavation areas due to the approximate water table interface fluctuating between two and seven feet below ground surface (bgs) since 1999. These results may represent saturated soil that is reflective of groundwater contamination and not residual soil contamination. The remaining confirmation samples are substantially below the PCE non-industrial direct contact (0-4') standard of 30,700 µg/kg. The laboratory analytical results are included in Appendix E.

2.0 GEOLOGIC CONDITIONS

2.1 Geology

The Property is located approximately 0.90-miles east of the East River and approximately 2.7-miles south of Lake Michigan. Underlying the surface fill soils at the site is the Glenmore Member of the Kewaunee Formation, which consists of dull reddish-brown sand, silt, and clay. Till of this member was deposited by glacial ice of the Green Bay Lobe. Sand and gravel associated with the till was fluvially deposited between about 12,500 and 14,000 years ago.[1] The combination of the Glenmore Member of the Kewaunee Formation and the other underlying unconsolidated sediments in the area are approximately 50-100-feet thick [2] and are bounded below by Ordovician Prairie du Chien Group bedrock, consisting primarily of dolomite with some sandstone and shale. [3]

2.1.1 Site-Specific Geological Characteristics

The description of the subsurface conditions provided herein was derived from on-site observations of soil samples during the December 2012 environmental investigation. Representative environmental soil samples were obtained from the soil borings and visually classified using the Unified Soil Classification System (USCS) as a guideline.

The borehole log results (Appendix F) indicate that the site has 2–8-feet of fill material consisting of sand, silt, clayey sand, silty clay, sandy silt, clayey silt and silty gravel. Beneath the fill material, the site soils consisted of native silt, silty clay, sandy silt and clayey silt. Bedrock was not encountered in any of the borings to the maximum depth explored (8-feet below grade).

The above subsurface descriptions are generalized in nature to highlight the major subsurface stratification features and material characteristics. The boring logs included in Appendix F should be reviewed for specific information at individual boring locations. These records include soil descriptions, stratifications, recovery percentage, PID readings and water levels. The stratifications shown on the boring logs represent the conditions only at the actual boring locations. Variations may occur and should be expected between boring locations. The stratifications represent the approximate boundary between subsurface materials and the actual transition may be gradual.

2.2 Hydraulic Gradient

Hydraulic head is an indicator of the total energy available to move ground water through an aquifer. Hydraulic head is measured by the height to which a column of water will stand above a reference elevation (or “datum”). On October 13, 2016, the groundwater monitoring well network was surveyed relative to the NAVD 88 in feet above mean sea level (amsl). Because hydraulic head represents the energy of water, ground water flows from locations of higher hydraulic head to locations of lower hydraulic head.

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[1] Mickelson, D.M., Clayton, Lee, Baker, R.W., Mode, W.N., and Schneider, A.F., 1984, Pleistocene stratigraphic units of Wisconsin: Wisconsin Geological and Natural History Survey Miscellaneous Paper, no. 84-1, 15 p.
[2] Schmidt, R.R., 1987, Groundwater Contamination Susceptibility Map and Evaluation: Wisconsin Department of Natural Resources. Wisconsin’s Groundwater Management Plan Report 5, PUBL-WR-177-87, 27p.
[3] Mudrey, M.G., Brown, B.A., and Greenberg, J.K., 1982, Bedrock Geologic Map of Wisconsin, WGNHS

On December 22, 2016, the static groundwater levels were measured in each well from top of casing (TOC). The depths to water measurements and groundwater elevations from this sampling event are summarized in Table A.6 and the groundwater elevation contour map is included as Figure 1. The groundwater level at the site, as well as perched water levels and volumes, will likely fluctuate throughout the year based on variations in rainfall, snowmelt, evaporation, surface run-off and other related hydrogeologic factors. The water level measurements presented in this report are the levels that were measured at the time of Fehr Graham's field activities.

The depth to groundwater on the nearly flat-lying property water ranges between approximately 5.5 to 7 feet below grade. The direction of groundwater flow is to the west-northwest, toward the East River. The highest hydraulic head was observed at MW-8 (596.64-feet amsl) and the lowest hydraulic head was observed at MW-9 (593.79-feet amsl). The hydraulic gradient is a vector gradient between two or more hydraulic head measurements over the length of the flow path where:

$$i = \frac{dh}{dl} = \frac{h2 - h1}{length}$$

i = hydraulic gradient MW-8 to MW-9
dh = difference between two hydraulic heads
dl = flow path length between the two wells

$$i = \frac{596.64\ feet - 593.79\ feet}{145\ feet} = 0.02\ feet/foot$$

2.3 Groundwater Velocity Calculations

An accurate estimate of groundwater velocity can be calculated using Darcy's Law. Darcy's law is an equation that describes groundwater movement in aquifers based on three variables: horizontal hydraulic conductivity, horizontal hydraulic gradient and effective porosity. The equation for calculating ground water velocity is:

$$V = \frac{Ki}{n}$$

V = average linear ground-water flow velocity
K = average hydraulic conductivity
i = dh/dl = hydraulic gradient MW-8 to MW-9 (0.02 feet/foot)
n = porosity

Site specific hydraulic conductivity tests were not performed, but the native formation where the groundwater column resides mainly consists of silt, clayey silt, sandy silt and silty clay. These soils most likely have low hydraulic conductivities, as all wells (with the exception of SMW-3) completed in the native materials could be purged dry using a bailer. These native deposits are assumed to have a hydraulic conductivity range of 10^{-6} to 10^{-4} cm/sec[4], which is equivalent to 0.0001 cm/sec, or 2.8 feet per day.

[4] Fetter, C. W. (1994). Applied Hydrogeology, 3rd ed. Upper Saddle River, NJ: Prentice Hall, Inc.

According to Morris and Johnson (1967)[5], the silty clay, which is the primary formation in which the water column resides, has a mean porosity percentage of 45%.

$$V = \frac{(2.8\frac{ft}{day})(0.02\frac{ft}{ft})}{0.45}$$

V = 0.12 feet/day = 45 feet/year

The estimated groundwater velocity at the site is considered low as it is ≤1-foot per day.[6]

[5] Morris, D.A. and A.I. Johnson, 1967, Summary of hydrologic and physical properties of rock and soil materials as analyzed by the Hydrologic Laboratory of the U.S. Geological Survey, U.S. Geological Survey Water-Supply Paper 1839-D, 42p.
[6]Alley, W.M., Reilly, T.E., and Franke, O.L., 1999, Sustainability of Ground-Water Resources, U.S. Geological Survey Circular 1186, 79p.

3.0 GROUNDWATER SAMPLING AND RESULTS

3.1 Groundwater Chemistry Results

Fehr Graham staff has completed post-remedial excavation quarterly groundwater sampling within the monitoring well network for VOCs on four occasions (November 2015, June 2016, September 2016 and December 2016). In addition to the existing site wells, two additional samples were taken from temporary wells that were installed by GEC at the east side of the property as part of an independent petroleum release site investigation. Sampling was performed using standard sample procedures, with individually dedicated bailers or tubing with peristaltic pump for sampling.

Public health groundwater quality standards are established in WAC Chapter NR 140. Two water quality standards, the Enforcement Standard (ES) and the Preventative Action Limit (PAL) have been established for substances of public health and welfare concern. The ES represents the concentration that requires the implementation of response measures, which typically consist of remedial action or additional investigations. The PAL represents a lower concentration, which typically requires an assessment of the potential for concentrations to exceed the enforcement standards and implementation of responses to prevent an exceedance of the enforcement standards.

Groundwater samples were obtained from wells MW-1, MW-2, SMW-3, MW-4 through MW-9, PZ-1, and GEC TW-4. Groundwater monitoring well GEC TW-5 could not be located as it has most likely been buried beneath the new redevelopment landscaping. The groundwater chemistry results indicated the following:

- PCE exceeds the ES in groundwater monitoring wells MW-1 and SMW-3 and exceeds the PAL in groundwater monitoring wells MW-4 and MW-7.
- TCE exceeds the ES in groundwater monitoring well SMW-3 and exceeds the PAL in groundwater monitoring well MW-9.
- Cis-1,2-dichloroethene (cis-1,2-DCE) exceeds the ES in groundwater monitoring well SMW-3.

The PAL exceedances for PCE in MW-4 and TCE in MW-9 are extremely low and fall between the laboratory limit of detection (LOD) and limit of quantification (LOQ). Concentrations this low relative to the laboratory analytical sensitivities may not always be reproducible, meaning the quantity reported is an estimate of the concentration and is not considered to be substantial.

The analytical results are summarized on Table A.1 and shown on Figure 2. The laboratory report is included in Appendix E.

3.2 Geochemical Indicators

Natural attenuation depends upon both the contaminant's reactivity and the site's geologic and chemical characteristics. Assessment of the changes in a site's geochemical environment constitutes a secondary line of evidence. Geochemical parameters including temperature, dissolved oxygen, specific conductance (conductivity and electric conductance), pH, turbidity, and oxidation/reduction potential were recorded during this sampling event to help in characterizing the groundwater quality at the site. Because other parameters listed below can affect the occurrence and the rate of natural biodegradation, they were collected to help

understand the status of the petroleum degradation in the aquifer at the BP-Pleasant Prairie site (Table A.7).

Temperature: Effective biodegradation can generally occur within a temperature range of 5˚C to 45˚C[7]. The optimal temperature for complete reductive dechlorination of PCE to ethene is between 10 and 30˚C[8]. Groundwater temperatures at the site ranged between 11.58 and 13.69˚C, indicating conditions are right for biological activity.

pH: Most natural ground waters have pH of 4 to 9, with the optimal range for microbial activity in groundwater being 5 to 9[9]. With the exception of MW-9 (2.19 pH units), groundwater at the site had a pH range between 4.75 and 5.99 pH units, which means pH conditions are favorable for the degradation of contaminated groundwater.

Dissolved Oxygen (DO): Generally, a water sample is "oxic" (oxidized, aerobic or oxygen-bearing) if its dissolved oxygen exceeds 0.5 mg/L[10]. The DO measured in the site groundwater ranges from 1.21 to 16.06 mg/L, indicating that oxygen is present in the aquifer.

Oxidation-Reduction Potential (ORP): The potential values for ORP in groundwater can range from –400 to +800 millivolts (mV)[11]. Solutions with higher ORP are more likely to oxidize new species, and solutions with lower ORP are more likely to reduce them. More negative values (reductive dechlorination), preferably below -200 mVs, indicate reducing reactions are occurring (loss of electrons, more positive ion results). Oxidizing reactions or aerobic oxidation (gain of electrons, more negative ion results) have a positive ORP. Positive readings suggest that a reaction is more likely to occur spontaneously without the need of extra energy and is an indication that aerobic biodegradation may be occurring[12]. The ORP in the site groundwater ranges between 117.1 and 202.6 mV. The positive ORP values generally indicate the groundwater is oxidizing (aerobic).

DO/ORP: DO and ORP readings should be in agreement. DO should be less than 1 mg/L when ORP is negative and greater than 1 mg/L when ORP is positive. As seen by the existing data, this relationship is true of the site groundwater, verifying that oxidizing (aerobic) conditions exist.

Specific Conductivity: This is a measure of water's ability to transmit electric current while indirectly measuring the amount of total dissolved solids in groundwater[13]. Typical ranges of values for groundwater field measurements is 50 to 50,000 microSiemens per centimeter (µS/cm)[14]. The site wells had values between 425 and 1,767 µS/cm.

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[7] Colorado Department of Labor and Employment – Division of Oil and Public Safety, 2002, Monitored Natural Attenuation in Groundwater Guidance Document. 40 p.
[8] Dennis, P., J. Roberts, and S. Dworatzek, 2011, How Low Can You Go? Bioremediation of Chlorinated Ethenes in Cold Groundwater Abstract and Platform Presentation: REMTEC, Chicago, Illinois. May 16-19.

[9] WDNR Guidance Memorandum, 1993, Natural Biodegradation as a Remedial Action Option-Interim Guidance. Wisconsin Release News 3(1).
[10] Barker, J.F., Patrick, G.C., & D. Mayor, 1987, Natural Attenuation of Aromatic Hydrocarbons in a Shallow Sand Aquifer. Ground Water Monitoring Review, pp. 64- 71.
[11] Wiedemeier, T.H., 1999, Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface. John Wiley & Sons. 617 pages.
[12] American Petroleum Institute, 1997, Methods for Measuring Indicators of Intrinsic Bioremediation: Guidance Manual. Publ. No. 4658.
[13] Freeze, R.A. and Cherry, J.A., 1979, Groundwater. Prentice-Hall, Englewood Cliffs, NJ.
[14] Sanders, L.L., 1998, A Manual of Field Hydrogeology: Prentice-Hall, NJ, 381p.

3.3 Discussion

Groundwater Chemistry Results

At monitoring well MW-3, the PCE and TCE concentrations were much higher at the time of groundwater sampling in December 2012 (PCE – 13,700 ug/l and TCE – 1,500 ug/l) compared to the initial sample results from June 1999 (PCE – 2,600 ug/l and TCE – <35.3 ug/l). These increasing groundwater concentrations from 1999 to 2012 indicated active source removal remediation was needed at this site.

After the remedial excavations took place in August 2015, the groundwater sample taken from SMW-3 (replacement sump for MW-3) showed concentrations are currently considerably lower than detected at MW-3 for PCE (3,680 µg/L in December 2016 compared to 13,700 µg/L in December 2012) and for TCE (785 µg/l in December 2016 compared to 1,500 µg/L in December 2012) as outlined in Table A.1. Conversely, concentrations of cis-1,2-dichloroethene (cis-1,2-DCE), a compound indicating degradation of PCE, has been detected in SMW-3 above the NR140 ES in three out of the last five post-excavation sampling events. Degradation of PCE to TCE to cis-1,2-DCE can be readily observed in SMW-3 since the August 2015 remedial excavations.

MW-7 is located hydraulically down-gradient from the excavation area that contained the location of the drycleaning machine and likely demonstrates the disturbance and re-introduction of PCE from the soil into the groundwater pathway. Monitoring well MW-9 is located further down-gradient from of areas containing high levels of PCE. Currently levels of PCE in MW-7 and TCE in MW-9 are present at levels above the PAL, but below the ES. Future sampling could be anticipated to show an increase in concentrations as the PCE/TCE plume migrates and dissipates further along the path of groundwater. Concentrations of PCE remained identical to the December 2012 sample at MW-7 (2.0 µg/L in December 2016 and 2.0 µg/L in December 2012) while concentrations of TCE remained similar to the December 2012 sample at MW-9 (0.67J µg/L in December 2016 compared to <0.48 µg/L in December 2012).

MW-1 and MW-4 were side gradient to the contaminant source and were above the ES and PAL, respectively, for PCE groundwater contamination. Concentrations of PCE remained similar to the December 2012 sample in MW-1 (5.8 µg/L in December 2016 compared to 6.5 µg/L in December 2012) and at MW-4 (0.63J µg/L in December 2016 compared to <0.45 µg/L in December 2012). This may be a result of a slight shifts in the groundwater flow direction over time. To note, at monitoring well MW-1, the PCE concentrations had decreased to 5.8 ug/l in the December 2016 sample, from the initial June 1999 results of 71.9 ug/l. The remaining sampled wells did not indicate the presence of PCE or TCE.

Both up-gradient wells GES TW-4 and GES TW-5 have never showed concentrations of dry cleaning compounds or compounds associated with chlorinated solvent degradation. The vertical and horizontal extent of contamination has been defined based on groundwater chemistry results from further downgradient and deeper wells. Table A.1 and Figure 2 illustrate the groundwater findings.

Geochemical Indicators

Under strictly anaerobic conditions, both TCE and PCE are subject to reductive dechlorination[15]. The geochemical data suggests that the groundwater at the site is oxygen-rich (aerobic). In the presence of oxygen, bacteria are able to use the carbon found in contaminants as their primary food source. However, PCE's four chlorine atoms surround and block its two carbon atoms so the bacteria in the groundwater are not able to use the carbon as their primary food source, making PCE less susceptible aerobic biodegradation, suggesting reductive dechlorination is not occurring. However, the presence of PCE degradation compounds TCE and cis-1,2-DCE above the ES in the most contaminated well (SMW-3) may suggest that PCE is being broken by hydrolysis, which is a non-biological chemical substitution reaction in which hydrogen ions in water react with organic molecules, replacing the chlorine atoms, and dechlorinating the PCE to the lesser chlorinated ethenes.[16]

Contaminant Trend Analysis

Semi-log plots of contaminant concentration vs. time and contaminant concentration vs. groundwater elevation were created for the groundwater monitoring wells where groundwater contamination currently exceeds the ES for PCE (MW-1 and MW-3 / SMW-3). These plots were assessed to determine if contaminant trends are stable or decreasing. The logarithm (to the base 10) of the benzene concentration data were plotted as a function of time (in days) in order to establish a trend[17]. This trend line is the semi-$\log_{10}$-transformed regression line. In addition, the groundwater elevation data has been superimposed on the concentration data. Charts of water level and chemistry results versus time are displayed in Appendix G, along with select trend analysis plots.

At monitoring well MW-3, the PCE concentrations are relatively stable over time and decreasing since December 2012. Additionally, PCE degradation compounds TCE and cis-1,2-DCE are increasing over time. The decreasing PCE trends of late and the increasing breakdown compounds are most likely due to the remedial excavations and dechlorination processes at play.

[15] Kastner, M., 1991, Reductive Dechlorination of Tri- and Tetrachloroethylenes Depends on Transition from Aerobic to Anaerobic Conditions, APPLIED AND ENVIRONMENTAL MICROBIOLOGY, July 1991, p. 2039-2046.
[16] Strauss, P., 1998, Natural Attenuation of Organic Compounds, Center for Public Environmental Oversight
[17] WDNR (2014). Guidance On Natural Attenuation For Petroleum Releases. PUB RR-614. 98 pages.

4.0 CONCLUSIONS

Based on the site investigation and remediation activities, the following conclusions have been reached.

1. The site geology consists of 2-8-feet of fill material overlying native silt, silty clay, sandy silt and clayey silt, with a depth to groundwater between approximately 5.5 and 7 feet below grade. The direction of groundwater flow is to the west northwest, toward the East River.

2. The majority of chlorinated solvent contaminated soil has been removed from the property and properly handled in August 2015.

3. Soil chemistry results indicate remaining soils at the site contain levels of the chlorinated solvent PCE at levels above the regulatory groundwater pathway RCL. The observed concentrations are present in soil within and beyond the limits of the excavations (Figure 4). The observed soil above RCLs does not pose a risk to human health or the environment due to the limited potential for direct contact exposure as the site is currently capped with asphalt, concrete, a building and landscaped surfaces.

4. Post-excavation groundwater samples of the existing groundwater monitoring well network illustrate that concentrations at the site remain minimal. Additionally, the most contaminated well (SMW-3) and shows a relatively stable PCE trend with breakdown products TCE and cis-1,2-DCE showing increasing trends, indicating reductive dechlorination processes are taking place.

5.0 RECOMMENDATIONS

Fehr Graham recommends an additional two rounds of groundwater sampling VOCs and Natural Attenuation reading be conducted at site monitoring wells MW-1 through MW-9, PZ-1, GEC TW-4, and GEC TW-5 in the spring and summer of 2017. Following the spring 2017 sampling event, a short update will be sent to the DNR discussing the current groundwater trends. Following the summer 2017 sampling event, a detailed summary discussing the conditions at the site will be provided.

Discussions will be held with the WDNR regarding the results and whether case closure can be pursued after both sampling events. It is anticipated the spring 2017 report will conclude that an additional groundwater sampling event be completed, and if those results appear favorable, closure could be considered.

5.1 DERF Change Order

The site is in the DERF program, and thus far, Fehr Graham and other subcontractors have invoiced approximately $98,420.68 in expenses on this project, with a total DERF approved remedial action budget of $111,605.80.

Attached in Appendix H please find costs to date, DERF change order form along with our cost estimate breakdown to show you how we got our total costs of $12,798.00 for this Change Order for two more rounds of quarterly monitoring.

Future charges are anticipated to be fully covered by DERF up to $200,000, except for items identified on the attached table (Appendix H) as being ineligible for DERF reimbursement. Charges above $200,000 are still eligible for DERF coverage, but an additional 8% deductible on charges above $200,000 are not eligible for reimbursement.

6.0 INERPRETATION OF RESULTS

The field observations, measurements, and research reported herein are considered sufficient in detail and scope to form a reasonable basis for the work performed at this site. The assessment, conclusions, and recommendations presented herein are based upon the subjective evaluation of limited data. They may not represent all conditions at the site as they reflect the information gathered from specific locations. Fehr Graham warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report.

The soil, groundwater and vapor investigation of this site has been developed to provide the client and WDNR with information regarding apparent indications of environmental concerns relating to the site. It is necessarily limited to the conditions observed and to the information available at the time of the work.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. Fehr Graham does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. Fehr Graham believes that the findings and conclusions provided in this report are reasonable.

Figures

MW–5
595.74

MW–6
594.95

MW–4
596.33

GEC
MW–13
NOT
SAMPLED

ASPHALT

Z=6'

SMW–3
594.96*

MW–9
593.79

594

594.5

595

595.5

596

596.5

LANDSCAPING

FORMER BUILDING

FAMILIA DENTISTRY BUILDING

GEC
TW–5
NOT
SAMPLED

SIDEWALK

GRASS

MW–7
594.77

MW–1
595.99

PZ–1
595.19*

GEC
TW–4
596.57*

GEC
MW–13
NOT
SAMPLED

MW–2
594.87

ASPHALT

GEC
MW–11
NOT
SAMPLED

MW–8
596.64

MAIN STREET

SIDEWALK

APPROXIMATE PROPERTY LINE

GEC
MW–14
NOT
SAMPLED

LEGEND

MW–14	MONITORING WELL
G	GAS LINE
ST	STORM SEWER
SAN	SANITARY SEWER
W	WATERMAIN
	CATCH BASIN
	POWER POLE
	WATER VALVE

596.29	GROUNDWATER ELEVATION (ft/msl)
594.87*	NOT USED IN CONTOUR
	GROUNDWATER FLOW DIRECTION
	JULY 2015 EXCAVATION
	ONE HOUR MARTINIZING BUILDING FOOTPRINT (DEMOLISHED)

N
W
E
S

30 0 30
GRAPHIC SCALE IN FEET

G:\C3D\14\14–1138 Rice\Exhibits\14–1138_BASE MAP.dwg, FIG 1_GW ELEV 12.22.16

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS
IOWA
WISCONSIN

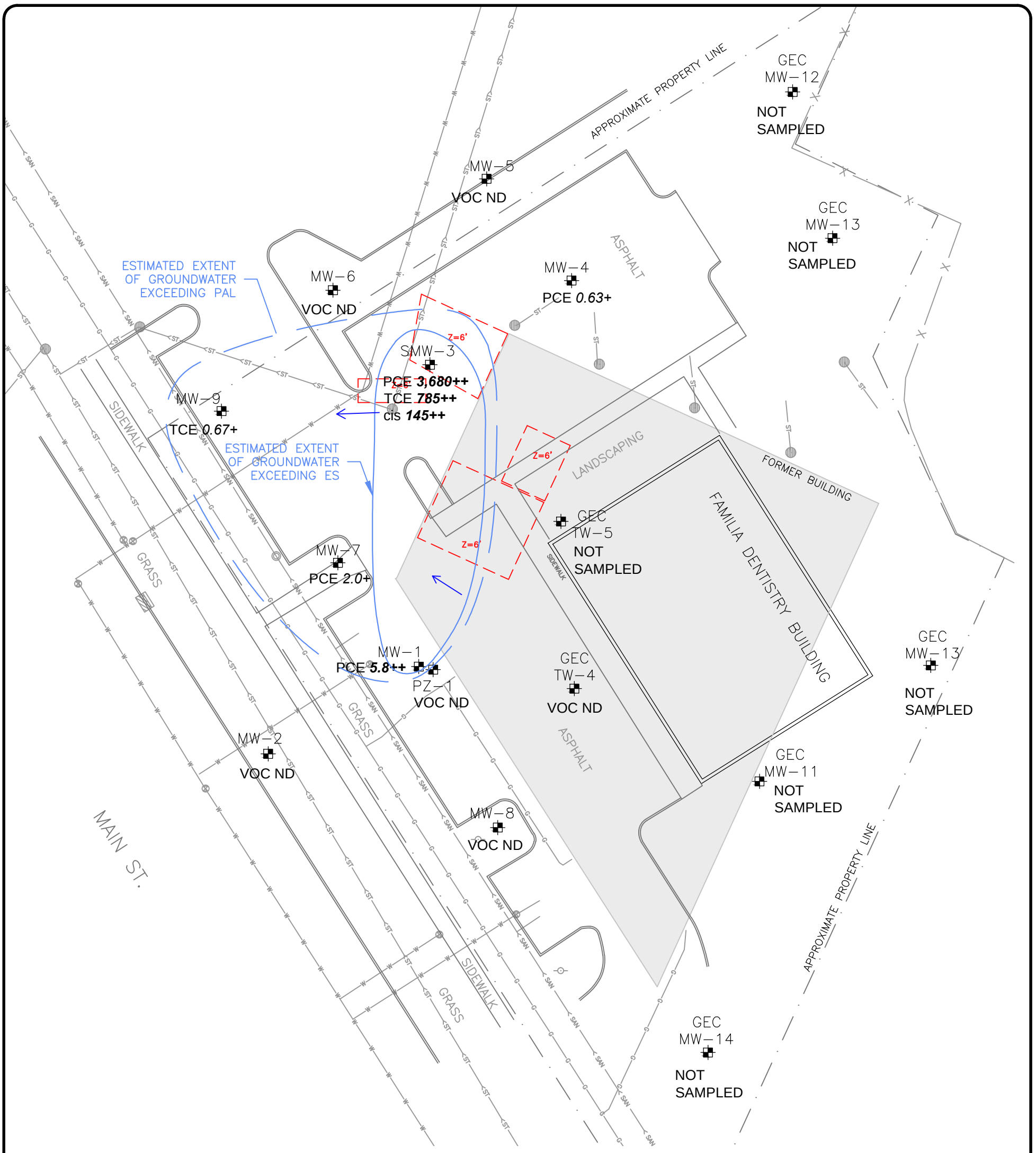
ONE HOUR MARTINIZING
1923 MAIN STREET
GREEN BAY, WI 54302

DRWN: MKH DATE: 10/06/16 APPD: XXX

TITLE: GROUNDWATER ELEVATION DEC. 22, 2016

BRRTS: 02–05–217276
JOB NO.: 14–1138
PLOT DATE: 1/19/17

FIGURE: 1



LEGEND

MW–14 MONITORING WELL

GAS LINE

STORM SEWER

SANITARY SEWER

WATERMAIN

CATCH BASIN

POWER POLE

WATER VALVE

PCE	TETRACHLOROETHENE (ug/L)
TCE	TRICHLOROETHEN (ug/L)
cis	cis-1,2-DICHLOROETHENE (ug/L)
VC	VINYL CHLORIDE (ug/L)
VOC	VOLATILE ORGANIC COMPOUNDS
ITALICS+	EXCEEDS NR140 PREVENTIVE ACTION LIMIT
BOLD++	EXCEEDS NR140 ENFORCEMENT STANDARD
ND	NO DETECT

GROUNDWATER FLOW DIRECTION (DEC. 22, 2016)

REMEDIAL EXCAVATION AUGUST 2015

ONE HOUR MARTINIZING BUILDING FOOTPRINT (DEMOLISHED)

N W E S

30 0 30

GRAPHIC SCALE IN FEET

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS IOWA WISCONSIN

ONE HOUR MARTINIZING
1923 MAIN STREET
GREEN BAY, WI 54302

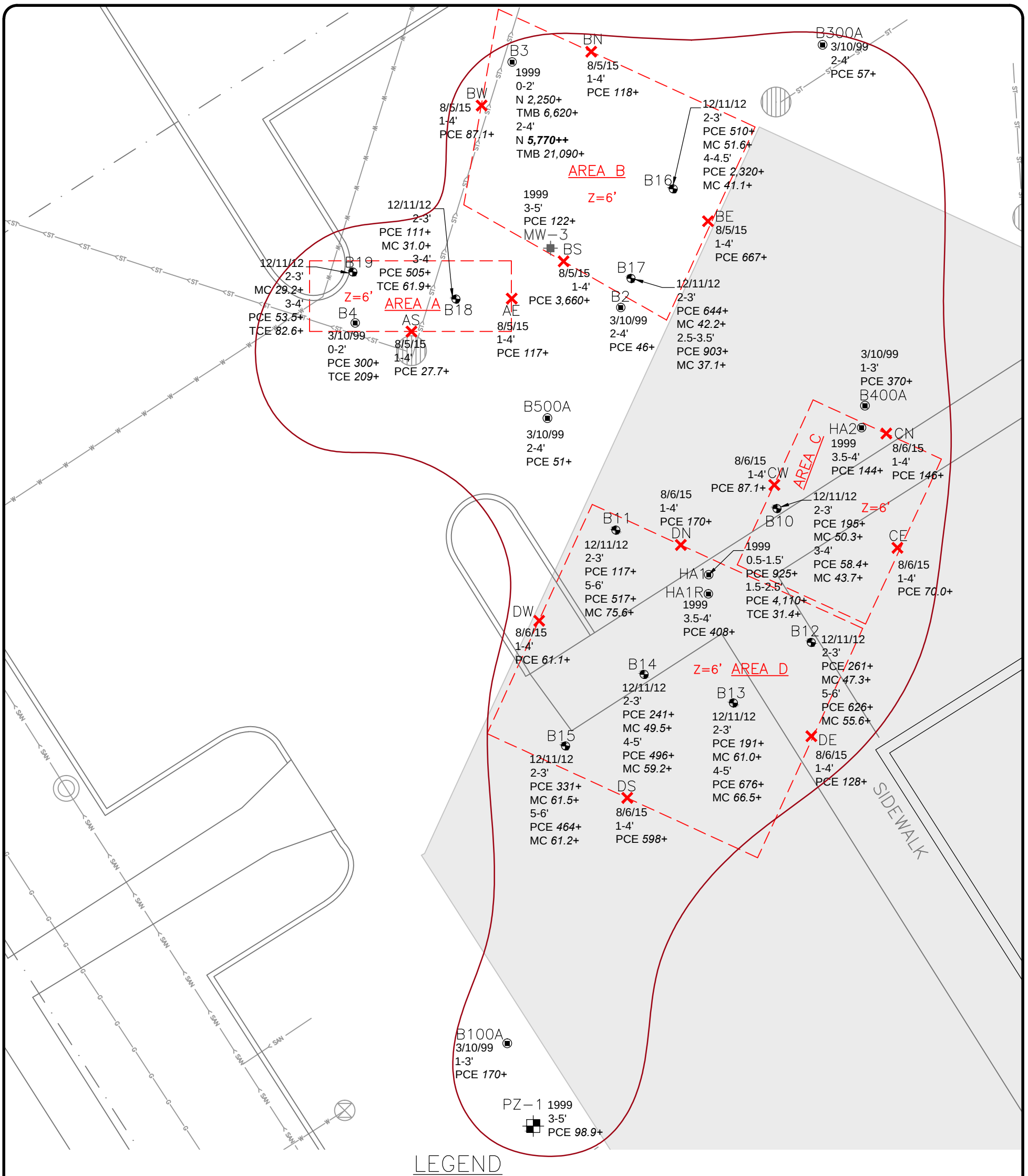
DRWN: MKH DATE: 10/06/16 APPD: XXX

TITLE: GROUNDWATER CHEMISTRY DEC. 22, 2016

BRRTS: 02–05–217276
JOB NO.: 14–1138
PLOT DATE: 1/19/17

FIGURE: 2

G:\C3D\14\14–1138 Rice\Exhibits\14–1138_BASE MAP.dwg, FIG 2_GW CHEM 12.22.16



LEGEND

- SOIL BORING (PREVIOUS CONSULTANTS)
- MONITORING WELL / PIEZOMETER (ABANDONED)
- SOIL BORING (ALPHA TERRA / FEHR GRAHAM)
- EXCAVATION SAMPLE
- GAS LINE
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- CATCH BASIN
- POWER POLE
- WATER VALVE

12/11/12	SAMPLE DATE
2-3'	SAMPLE DEPTH
PCE	TETRACHLOROETHENE (ug/kg)
TCE	TRICHLOROETHENE (ug/kg)
MC	METHYLENE CHLORIDE (ug/kg)
N	NAPHTHALENE (ug/kg)
TMB	TRIMETHYLBENZENES, TOTAL (ug/kg)
ITALICS+	EXCEEDS GROUNDWATER PATHWAY RCL
BOLD++	EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL

- ESTIMATED EXTENT OF SOIL EXCEEDING PCE GROUNDWATER PATHWAY RCL
- ONE HOUR MARTINIZING FOOTPRINT (DEMOLISHED)
- Z=6' REMEDIAL EXCAVATION OUTLINE & DEPTH

N W E S

10 0 10

GRAPHIC SCALE IN FEET

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL
ILLINOIS IOWA WISCONSIN

ONE HOUR MARTINIZING
1923 MAIN STREET
GREEN BAY, WI 54302

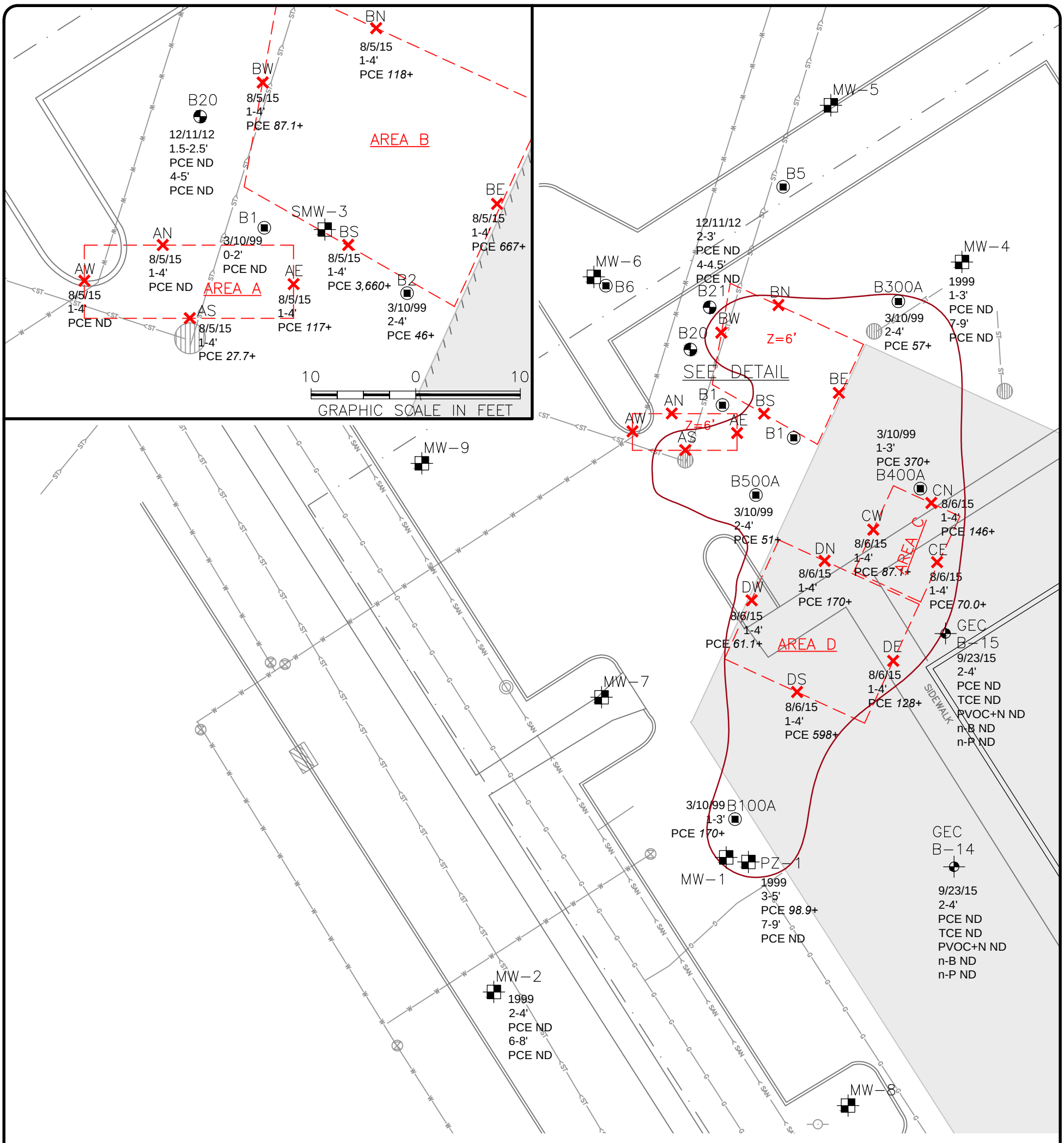
DRWN: MKH DATE: 10/08/16 APPD: XXX

TITLE:
PRE-REMEDIAL SOIL CONTAMINATION

BRRTS: 02-05-217276
JOB NO.: 14-1138
PLOT DATE: 1/26/17

FIGURE: 3

G:\C3D\14\14-1138 Rice\Exhibits\14-1138_BASE MAP.dwg, FIG 3_SI SOIL CHEM



LEGEND

- SOIL BORING (PREVIOUS CONSULTANTS)
- MONITORING WELL / PIEZOMETER
- (ABANDONED)
- SOIL BORING (ALPHA TERRA / FEHR GRAHAM)
- EXCAVATION SAMPLE
- GAS LINE
- STORM SEWER
- SANITARY SEWER
- WATERMAIN
- CATCH BASIN
- POWER POLE
- WATER VALVE

12/11/12	SAMPLE DATE
2-3'	SAMPLE DEPTH
PCE	TETRACHLOROETHENE (ug/kg)
TCE	TRICHLOROETHENE (ug/kg)
MC	METHYLENE CHLORIDE (ug/kg)
N	NAPHTHALENE (ug/kg)
TMB	TRIMETHYLBENZENES, TOTAL (ug/kg)
n-B	n-BUTYLBENZENE (ug/kg)
n-P	n-PROPYLBENZENE (ug/kg)
ITALICS+	EXCEEDS GROUNDWATER PATHWAY RCL
BOLD++	EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL

- ESTIMATED EXTENT OF SOIL EXCEEDING PCE GROUNDWATER PATHWAY RCL
- ONE HOUR MARTINIZING FOOTPRINT (DEMOLISHED)
- Z=6' REMEDIAL EXCAVATION OUTLINE & DEPTH

N W E S

20 0 20

GRAPHIC SCALE IN FEET

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS IOWA WISCONSIN

ONE HOUR MARTINIZING
1923 MAIN STREET
GREEN BAY, WI 54302

DRWN: MKH DATE: 10/08/16 APPD: XXX

TITLE:
REMAINING SOIL CONTAMINATION

BRRTS: 02-05-217276
JOB NO.: 14-1138
PLOT DATE: 1/26/17

FIGURE: 4

G:\C3D\14\14-1138 Rice\Exhibits\14-1138_BASE MAP.dwg, FIG 4_REMAINING SOIL CHEM

Tables

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	HA-1	MW-1														
Date				6/8/99	6/17/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	10/15/10	12/12/12	11/15/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				NA	597.18	595.40	598.03	597.96	596.94	596.17	597.91	598.58	598.03	--	597.32	598.79	599.24	598.31	596.29	595.99
Notes														Dup			GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	*84.7*	*71.9*	*20*	*16*	*21*	*22*	*17*	*16*	*16*	*19.9*	*17*	*6.5*	*6.8*	*7.6*	*6.1*	*10.1*	*5.8*
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	*1.79P*	0.29P	<0.21	<0.48	<0.48	*0.52*	*0.60*	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.47	<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.93	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.45	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	--	--	<0.89	<0.26	<0.44	<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.70	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	--	--	<0.43	<0.23	NA	<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.94	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.44	<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.97	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.71	<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.55	0.14P	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.44	<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<2.85	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<3.1	<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<1.8	<1.0	<0.9	<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.83	<0.50	<2.2	<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.41	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<0.89	<2.5	--	<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	--	--	<0.61	<0.17	<1.1	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.97	<0.50	<1.6	<0.5	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	--	--	<0.83	<0.50	<1.5	<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<4.05	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<3.1	<1.0	<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	PZ-1														
Date				6/17/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				589.43	595.17	596.87	596.91	596.15	595.17	597.00	597.18	596.78	594.27	597.21	--	596.97	594.87	595.19
Notes															GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.34	<0.45	<0.45	*4.8*	*15*	<0.45	<0.45	<0.45	<0.45	<0.50	NOT SAMPLED	NOT SAMPLED	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.21	<0.48	<0.48	*0.56*	*1.1*	<0.48	<0.48	<0.48	<0.48	<0.33			<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26			<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	<0.89	<0.26			<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18			<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	<0.43	<0.23			<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50			<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50			<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50			<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5			<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<1.8	<1.0			<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50			<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5			<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	<0.61	<0.17			<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.97	<0.50			<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50			<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0			<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-2														
Date				6/17/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				595.74	593.77	595.79	595.53	594.90	593.88	595.64	596.12	595.75	594.58	595.95	--	595.71	595.75	594.87
Notes															GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.34	<0.45	<0.45	*9.8*	*15*	<0.45	<0.45	<0.48	<0.45	<0.50	NOT SAMPLED	<0.50	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.21	<0.48	<0.48	*0.8*	*1.2*	<0.48	<0.48	<0.48	<0.48	<0.33		<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26		<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	<0.89	<0.26		<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18		<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	<0.43	<0.23		<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50		<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50		<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	1.6	<0.50		<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5		<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<1.8	<1.0		<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50		<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.08	<0.082	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5		<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	<0.61	<0.17		<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.97	<0.50		<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<0.83	<0.50		<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0		<1.0	<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-3											SMW-3				
Date				6/17/99	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				598.60	596.31	598.68	598.47	597.51	596.15	598.19	599.04	598.06	596.33	--	595.57	595.62	595.69	595.07	594.96
Notes																GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	*2,600*	*76*	*4,400*	*2,800*	*10,000*	*12,000*	*4,700*	*5,200*	*602*	*13,700*	REMOVED DURING 2015 EXCAVATION	*3,100*	*760*	*1,790*	*2,450*	*3,680*
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<35.3	*89*	*190*	*200*	*450*	*570*	*360*	*410*	*191*	*1,500*		*504*	*197*	*425*	*616*	*785*
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<31	1.6	<21	<21	<83	<170	<42	<83	*34.4*	<208		*86.5*	*24.3*	*54.7*	*201*	*145*
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	--	--	--	<222		<10.3	2.22	<10.3	18.5 J	10.0 J
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<23.3	*1.2*	<4.5	<4.5	<18	<36	<9.0	<18	<0.9	<45.0		<7.0	*0.40 J*	<7.0	*5.8 J*	<3.5
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	--	--	--	<108		<9.3	--	<9.3	<4.7	<4.7
Benzene	(ug/L)	*0.5*	**5**	<31.3	<0.19	<10	<10	<41	<82	<20	<41	<2.0	<102		<20.0	<0.44	<20.0	<10.0	<10.0
Ethylbenzene	(ug/L)	*140*	**700**	<32.3	<0.19	<14	<14	<54	<110	<27	<54	<2.7	<135		<20.0	<0.71	<20.0	<10.0	<10.0
Toluene	(ug/L)	*160*	**800**	<18.3	0.75	<17	<17	<67	<130	<34	<67	<3.4	<168		<20.0	<0.44	<20.0	<10.0	<10.0
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<95	2.2	<66	<66	<263	<530	<132	<263	<13.2	<658		<60.0	<3.1	<60.0	<30.0	<30.0
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<450		<40.0	<0.9	<40.0	<20.0	<20.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<208		<20.0	<2.2	<20.0	<10.0	<10.0
Naphthalene	(ug/L)	*10*	**100**	<13.7	<0.082	<18	<18	<74	<150	<37	<74	<4.4	<222		<100	--	<100	<50.0	<50.0
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	--	--	<152		<7.0	<1.1	<7.0	<3.5	<3.5
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<242		<20.0	<1.6	<20.0	<10.0	<10.0
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	--	--	<208		<20.0	<1.5	<20.0	<10.0	<10.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<135	5.4	<45	<45	<180	<360	<90	<180	<9.0	<450		<40.0	<3.1	<40.0	<20.0	<20.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
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ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-4												
Date				6/17/99	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				598.67	596.26	598.96	597.43	598.16	598.23	597.07	597.29	597.90	297.27	596.90	596.33
Notes												GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.34	*1.9*	*2.0*	*3.0*	<0.45	<0.45	*1.4*	*0.89 J*	*1.1*	*1.3*	*0.63 J*
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.47	<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.45	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	--	<0.89	<0.26	<0.54	<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	--	<0.43	<0.23	--	<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.44	<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.71	<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.44	<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.57	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<3.1	<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	<1.8	<1.0	<0.9	<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	--	<0.83	<0.50	<2.2	<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.08	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	--	<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	--	--	<0.17	<1.1	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	<0.50	<1.6	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	--	--	<0.50	<1.5	<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<3.1	<1.0	<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
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ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-5											
Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				596.86	599.56	598.05	598.63	598.73	596.62	596.69	--	596.69	596.19	595.74
Notes											GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	*1.9*	<0.45	<0.45	<0.45	<0.45	<0.50	NOT SAMPLED	NOT SAMPLED	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33			<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26			<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26			<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18			<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23			<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50			<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50			<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50			<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5			<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0			<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50			<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5			<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17			<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50			<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50			<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0			<1.0	<1.0

Notes:
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BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-6											
Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/20/16	6/23/16	9/22/16	12/22/16
Groundwater Elevation				596.29	598.63	597.49	597.85	597.84	596.34	596.56	--	596.60	594.44	594.95
Notes											GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	<0.50	NOT SAMPLED	<0.50	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33		<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26		<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26		<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18		<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23		<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50		<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50		<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50		<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5		<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0		<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50		<0.49	<0.50	<.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5		<2.4	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17		<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50		<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50		<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0		<1.1	<1.0	<1.0

Notes:
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BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-7											
Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/21/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				594.78	597.68	596.48	597.28	597.20	596.63	597.81	597.68	597.21	595.00	594.77
Notes											GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.45	*30*	<0.45	*1.3*	*2*	*16.5*	*14.3*	*14.8*	*4.0*	*2.0*
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.48	*2.0*	<0.48	*0.78J*	<0.48	0.49 J	<0.47	*0.33 J*	*0.54 J*	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.83	<0.83	<0.83	2.2	<0.83	<0.26	<0.45	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26	<0.54	<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23	--	<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.44	<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.71	<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.44	<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<3.1	<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0	<0.9	<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	<2.2	<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	--	<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17	<1.1	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50	<1.6	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	<1.5	<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<3.1	<1.0	<1.0	<1.0

Notes:
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BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-8											
Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16
Groundwater Elevation				595.83	598.21	596.98	598.17	598.35	597.46	599.12	599.49	597.28	596.73	596.64
Notes											GEC			
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	<0.50	<0.49	NOT SAMPLED	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.21	<0.48	<0.48	<0.48	<0.48	<0.48	<0.33	<0.47		<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	<0.83	<0.83	<0.83	<0.83	<0.83	<0.26	<0.45		<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26	<0.54		<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.14	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.17		<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23	--		<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50	<0.44		<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50	<0.71		<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50	<0.44		<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5	<3.1		<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0	<0.9		<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	<2.2		<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5	--		<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17	<1.1		<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50	<1.6		<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50	<1.5		<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0	<3.1		<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	MW-9											GEC TW-4					GEC TW-5			
Date				8/28/01	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	4/20/16	6/24/16	9/22/16	12/22/16	9/24/15	11/12/15	6/24/16	9/22/16	12/22/16	9/24/15	11/12/15	6/24/16	9/22/16
Groundwater Elevation				NA	595.58	594.65	595.89	593.86	593.15	595.32	--	594.24	594.50	593.79	--	598.16	597.91	596.76	596.57	--	--	--	--
Notes											GEC												
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.34	<0.45	<0.45	<0.45	<0.45	<0.45	*0.94 J*	NOT SAMPLED	*0.73 J*	*0.60 J*	<0.50	<0.49	<0.50	NOT SAMPLED	<0.50	<0.50	<0.49	<0.50	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.098	*0.55*	*2.6*	*0.7*	<0.48	<0.48	*1.7*		*1.0*	*0.78 J*	*0.67 J*	<0.47	<0.33		<0.33	<0.33	<0.47	<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.19	1.2	3.4	<0.83	<0.83	<0.83	<0.26		<0.26	<0.26	<0.26	<0.45	<0.26		<0.26	<0.26	<0.45	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	--	--	--	--	--	<0.89	<0.26		<0.26	<0.26	<0.26	--	<0.26		<0.26	<0.26	--	<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18		<0.18	<0.18	<0.18	--	<0.18		<0.18	<0.18	--	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<0.43	<0.23		<0.23	<0.23	<0.23	--	<0.23		<0.23	<0.23	--	<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.19	<0.41	<0.41	<0.41	<0.41	<0.41	<0.50		<0.50	<0.50	<0.50	<0.44	<0.50		<0.50	<0.50	<0.44	<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.19	<0.54	<0.54	<0.54	<0.54	<0.54	<0.50		<0.50	<0.50	<0.50	<0.71	<0.50		<0.50	<0.50	<0.71	<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.11	<0.67	<0.67	<0.67	<0.67	<0.67	<0.50		<0.50	<0.50	<0.50	<0.44	<0.50		<0.50	<0.50	<0.44	<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<0.39	<2.63	<2.63	<2.63	<2.63	<2.63	<1.5		<1.5	<1.5	<1.5	<3.1	<1.5		<1.5	<1.5	<3.1	<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<1.8	<1.0		<1.0	<1.0	<1.0	<2.2	<1.0		<1.0	<1.0	<2.2	<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50		<0.50	<0.50	<0.50	<0.9	<0.50		<0.50	<0.50	<0.9	<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	<0.082	<0.74	<0.74	<0.74	<0.89	<0.89	<2.5		<2.5	<2.5	<2.5	--	<2.5		<2.5	<2.5	--	<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	--	--	--	--	--	<0.61	<0.17		<0.17	<0.17	<0.17	<1.1	<0.17		<0.17	<0.17	<1.1	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.97	<0.50		<0.50	<0.50	<0.50	<1.6	<0.50		<0.50	<0.50	<1.6	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	--	--	--	--	--	<0.83	<0.50		<0.50	<0.50	<0.50	<1.5	<0.50		<0.50	<0.50	<1.5	<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<0.81	<1.80	<1.80	<1.80	<1.80	<1.80	<1.0		<1.0	<1.0	<1.0	<3.1	<1.0		<1.0	<1.0	<3.1	<1.0	<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

A.1
Groundwater Analytical Table - VOCs
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140.10 Preventive Action Limit	NR 140.10 Enforcement Standard	GEC MW-10	GEC MW-11	GEC MW-12	GEC MW-13	GEX MW-14	W-1	Trip Blank			
Date				4/21/16	4/21/16	4/21/16	4/21/16	4/21/16	6/20/16	11/12/15	6/24/16	9/22/16	12/22/16
Groundwater Elevation				--	--	--	--	--	--	--	--	--	--
Notes													
Tetrachloroethene (PCE)	(ug/L)	*0.5*	**5**	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.50	<0.50	<0.50	<0.50
Trichloroethene (TCE)	(ug/L)	*0.5*	**5**	<0.47	<0.47	<0.47	<0.47	<0.47	<0.47	<0.33	<0.33	<0.33	<0.33
cis-1,2-Dichloroethene	(ug/L)	*7*	**70**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.26	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	(ug/L)	*20*	**100**	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.26	<0.26	<0.26	<0.26
Vinyl Chloride	(ug/L)	*0.02*	**0.2**	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.18	<0.18	<0.18	<0.18
Methylene Chloride	(ug/L)	*0.5*	**5**	--	--	--	--	--	<1.3	<0.23	<0.23	<0.23	<0.23
Benzene	(ug/L)	*0.5*	**5**	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	(ug/L)	*140*	**700**	<0.71	<0.71	<0.71	<0.71	<0.71	<0.71	<0.50	<0.50	<0.50	<0.50
Toluene	(ug/L)	*160*	**800**	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.50	<0.50	<0.50	<0.50
Xylenes (TOTAL)	(ug/L)	*400*	**2,000**	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1.5	<1.5	<1.5	<1.5
m&p-Xylene	(ug/L)	NS	NS	<0.9	<0.9	<0.9	<0.9	<0.9	<2.2	<1.0	<1.0	<1.0	<1.0
o-Xylene	(ug/L)	NS	NS	<2.2	<2.2	<2.2	<2.2	<2.2	<0.9	<0.50	<0.50	<0.50	<0.50
Naphthalene	(ug/L)	*10*	**100**	--	--	--	--	--	<1.6	<2.5	<2.5	<2.5	<2.5
MTBE	(ug/L)	*12*	**60**	<1.1	<1.1	<1.1	<1.1	<1.1	<1.1	<0.17	<0.17	<0.17	<0.17
1,2,4-Trimethylbenzene	(ug/L)	NS	NS	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<0.50	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	(ug/L)	NS	NS	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<0.50	<0.50	<0.50	<0.50
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/L)	*96*	**480**	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<1.0	<1.0	<1.0	<1.0

Notes:
NS = No standard established
-- = Not analyzed or reported for parameter
J = Between Limit of Detection & Limit of Quantification
ITALICS indicates exceedance of NR 140.10 Preventive Action Limit
BOLD indicates exceedance of NR 140.10 Enforcement Standard

TABLE A.2
Soil Analytical Results
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

				Site Investigation - Northern Environmental				Site Investigation - STS Consultants								
Sample ID		Groundwater Pathway RCL	Non-Industrial Direct-Contact RCL	B100A	B300A	B400A	B500A	PZ-1		MW-2		MW-3		MW-4		MW-6
Date				3/10/99	3/10/99	3/10/99	3/10/99	1999	1999	1999	1999	1999	1999	1999	1999	1999
Depth				1-3'	2-4'	1-3'	2-4'	3-5'	7-9'	2-4'	6-8'	3-5'	7-9'	1-3'	7-9'	0-2'
Description				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPTH to Seasonal Low Water Table (ft BGS)				6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
Saturated (S) or Unsaturated (U)				U	U	U	U	U	S	U	S	U	S	U	S	U
PID Reading				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes						*RMVD*						*RMVD*	*RMVD*			
Benzene	(ug/kg)	*5.1*	**1,490**	<25	<25	<25	<25	<12.8	<13.1	<11.5	<13.8	<12.7	<12.6	<11.8	<12.0	NA
Ethylbenzene	(ug/kg)	*1570*	**7,470**	<25	<25	<25	<25	<13.2	<13.6	<11.9	<14.2	<13.1	<19.0	<12.2	<12.3	NA
Toluene	(ug/kg)	*1107.2*	**818,000**	<25	<25	<25	<25	<7.5	<7.69	<6.74	<8.07	<7.41	<7.36	<6.93	<7.0	NA
Xylenes (TOTAL)	(ug/kg)	*3940*	**258,000**	<75	<75	<75	<25	<38.8	<39.8	<34.9	<41.9	<38.4	<38.1	<35.9	<36.2	NA
m&p-Xylene	(ug/kg)	NS	**778,000**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
o-Xylene	(ug/kg)	NS	**434,000**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
Naphthalene	(ug/kg)	*658.2*	**5,150**	<25	<25	<25	<25	<5.59	<5.73	<5.03	<6.02	<5.52	38	<5.17	<5.22	NA
MTBE	(ug/kg)	*27*	**59,400**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
1,2,4-Trimethylbenzene	(ug/kg)	*408*	**89,800**	<25	<25	<25	<25	<31.6	<32.4	<28.4	<34	<31.3	<31.1	<29.2	<22	NA
1,3,5-Trimethylbenzene	(ug/kg)	NS	**182,000**	<25	<25	<25	<25	<23.6	<24.2	<21.2	<25.4	<23.3	<23.2	<21.2	<5.22	NA
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	*1382.1*	NS	<50	<50	<50	<50	<55.2	<56.6	<49.6	<59.4	<54.6	<54.3	<50.4	<27.22	NA
Tetrachloroethene (PCE)	(ug/kg)	*4.5*	**30,700**	*170*	*57*	*370*	*51*	*98.9*	<23.5	<20.6	<24.7	*122*	<22.5	<21.2	<21.4	NA
Trichloroethene (TCE)	(ug/kg)	*3.6*	**1,260**	NR	NR	NR	NR	<14.5	<14.8	<13.0	<15.6	<14.3	<14.2	<13.4	<13.5	NA
cis-1,2-Dichloroethene	(ug/kg)	*41.2*	**156,000**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
trans-1,2-Dichloroethene	(ug/kg)	*58.8*	**1,560,000**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
Vinyl Chloride	(ug/kg)	*0.1*	**67**	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA
Methylene Chloride	(ug/kg)	*2.6*	**60,700**	NR	NR	NR	NR	<17.3	<17.8	<15.6	<18.6	74.9	<17.0	<16.0	<16.2	NA
Total Organic Carbon	(mg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	36400
No. of Individual Exceedances (DC)				0	0	0	0	0	--	--	--	0	0	--	--	--
Cumulative Hazard Index (DC)				0.0015	0.0005	0.0032	0.0004	0.0009	--	--	--	0.0011	0.0002	--	--	--
Cumulative Cancer Risk (DC)				5.5E-09	1.9E-09	1.2E-08	1.7E-09	3.2E-09	--	--	--	4.0E-09	7.4E-09	--	--	--

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **B1** : Cumulative exceedance (HI > 1), eventhough no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Notes:
Xylenes reported as total of m-, o-, p-xylenes
NS = No standard established
NA = Not analyzed for parameter
NR = Not Reported
ITALICS indicates exceedance of Groundwater Pathway RCL
BOLD indicates exceedance of Non-industrial Direct Contact RCL

TABLE A.2
Soil Analytical Results
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

				Site Investigation - STS Consultants												
Sample ID		Groundwater Pathway RCL	Non-Industrial Direct-Contact RCL	MW-7	HA-1		B-1	B-2	B-3		B-4	B-5	B-6	HA-1R	HA-2
Date				1999	1999	1999	1999	1999	1999	1999	1999	1999	1999	11/19/10	11/19/10
Depth				0-2'	0.5-1.5'	1.5-2.5'	0-2'	2-4'	0-2'	2-4'	0-2'	0-2'	0-2'	3.5-4'	3.5-4'
Description				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPTH to Seasonal Low Water Table (ft BGS)				6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
Saturated (S) or Unsaturated (U)				U	U	U	U	U	U	U	U	U	U	U	U
PID Reading				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes					*RMVD*	*RMVD*			*RMVD*	*RMVD*	*RMVD*			*RMVD*	*RMVD*
Benzene	(ug/kg)	*5.1*	**1,490**	NA	<11.0	<12.1	<11	<11	<58	<127	<11	<12	<10	<25.0	<25.0
Ethylbenzene	(ug/kg)	*1570*	**7,470**	NA	<11.3	<12.5	<11	<12	397	1,370	<12	<12	<11	<25.0	<25.0
Toluene	(ug/kg)	*1107.2*	**818,000**	NA	<6.41	<7.07	<6.5	<6.7	<34	<74	<6.6	<7.0	<6.1	<25.0	<25.0
Xylenes (TOTAL)	(ug/kg)	*3940*	**258,000**	NA	<33.3	16.6P	<23	<24	776	2,030	<24	<25	<22	<75.0	<75.0
m&p-Xylene	(ug/kg)	NS	**778,000**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
o-Xylene	(ug/kg)	NS	**434,000**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Naphthalene	(ug/kg)	*658.2*	**5,150**	NA	5.99J	17.7	<32	<33	*2,250*	*5,770*	<32	<34	<30	<25.0	<25.0
MTBE	(ug/kg)	*27*	**59,400**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-Trimethylbenzene	(ug/kg)	*408*	**89,800**	NA	<27.1	<29.8	<27	<28	*4,280*	*16,200*	<28	<29	<26	<25.0	<
1,3,5-Trimethylbenzene	(ug/kg)	NS	**182,000**	NA	<20.2	<22.2	<20	<21	2,340	4,890	<21	<22	<19	<25.0	<25.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	*1382.1*	NS	NA	<47.2	<52.0	<47	<49	*6,620*	*21,090*	<49	<51	<45	<50.0	<50.0
Tetrachloroethene (PCE)	(ug/kg)	*4.5*	**30,700**	NA	*925*	*4,110*	<20	*46J*	<103	<228	*300*	<21	<19	*408*	*144*
Trichloroethene (TCE)	(ug/kg)	*3.6*	**1,260**	NA	<12.4	*31.4J*	<13	<13	<65	<144	*209*	<13	<12	<25.0	<25.0
cis-1,2-Dichloroethene	(ug/kg)	*41.2*	**156,000**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	<25.0	<25.0
trans-1,2-Dichloroethene	(ug/kg)	*58.8*	**1,560,000**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	<25.0	<25.0
Vinyl Chloride	(ug/kg)	*0.1*	**67**	NA	NR	NR	NR	NR	NR	NR	NR	NR	NR	<25.0	<25.0
Methylene Chloride	(ug/kg)	*2.6*	**60,700**	NA	<14.8	<16.3	<47	<48	<245	<538	<48	<50	<44	<25.0	<25.0
Total Organic Carbon	(mg/kg)			24700	NA	NA	NA	NA	NA	NA	NA	NA	NA		
No. of Individual Exceedances (DC)				--	0	0	--	0	0	1	0	--	--	0	0
Cumulative Hazard Index (DC)				--	0.0081	0.041	--	0.0004	0.0636	0.22	0.0372	--	--	0.0035	0.0013
Cumulative Cancer Risk (DC)				--	3.1E-08	1.6E-07	--	1.5E-09	4.9E-07	1.3E-06	1.8E-07	--	--	1.3E-08	4.7E-09

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **B1** : Cumulative exceedance (HI > 1), eventhough no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Notes:
Xylenes reported as total of m-, o-, p-xylenes
NS = No standard established
NA = Not analyzed for parameter
NR = Not Reported
ITALICS indicates exceedance of Groundwater Pathway RCL
BOLD indicates exceedance of Non-industrial Direct Contact RCL

TABLE A.2
Soil Analytical Results
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

				Site Investigation - Alpha Terra Science (Fehr-Graham)													
Sample ID		Groundwater Pathway RCL	Non-Industrial Direct-Contact RCL	B-10		B-11			B-12			B-13		B-14		B-15	
Date				12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12
Depth				2-3'	3-4'	2-3'	3-4'	5-6'	2-3'	4-5'	3.5-4'	2-3'	4-5'	2-3'	4-5'	2-3'	5-6'
Description				clay	clay	silty clay	silty clay	silt	sand	sandy silt	sandy silt	sandy silt	sand	clay	silt	sandy silt	sandy silt
DEPTH to Seasonal Low Water Table (ft BGS)				6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
Saturated (S) or Unsaturated (U)				U	U	U	U	U	U	U	U	U	U	U	U	U	U
PID Reading				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes				*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*
Benzene	(ug/kg)	*5.1*	**1,490**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	(ug/kg)	*1570*	**7,470**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	(ug/kg)	*1107.2*	**818,000**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes (TOTAL)	(ug/kg)	*3940*	**258,000**	<75.0	<75.0	<75.0	NA	<75.0	<75.0	<75.0	NA	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0
m&p-Xylene	(ug/kg)	NS	**778,000**	<50.0	<50.0	<50.0	NA	<50.0	<50.0	<50.0	NA	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
o-Xylene	(ug/kg)	NS	**434,000**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	(ug/kg)	*658.2*	**5,150**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
MTBE	(ug/kg)	*27*	**59,400**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trimethylbenzene	(ug/kg)	*408*	**89,800**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	(ug/kg)	NS	**182,000**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	*1382.1*	NS	<50.0	<50.0	<50	NA	<50	<50	<50	NA	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Tetrachloroethene (PCE)	(ug/kg)	*4.5*	**30,700**	*195*	*58.4J*	*117*	NA	*517*	*261*	*626*	NA	*191*	*676*	*241*	*496*	*331*	*464*
Trichloroethene (TCE)	(ug/kg)	*3.6*	**1,260**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,2-Dichloroethene	(ug/kg)	*41.2*	**156,000**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethene	(ug/kg)	*58.8*	**1,560,000**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Vinyl Chloride	(ug/kg)	*0.1*	**67**	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	(ug/kg)	*2.6*	**60,700**	*50.3J*	*43.7J*	*73*	NA	*75.6*	*47.3J*	*55.6J*	NA	*61.0J*	*66.5J*	*49.5J*	*59.2J*	*61.5J*	*61.2J*
Total Organic Carbon	(mg/kg)			NA	NA	NA	7,165	NA	NA	NA	4,240	NA	NA	NA	NA	NA	NA
No. of Individual Exceedances (DC)				0	0	0	--	0	0	0	--	0	0	0	0	0	0
Cumulative Hazard Index (DC)				0.0018	0.0006	0.0012	--	0.0047	0.0024	0.0056	--	0.0018	0.0061	0.0022	0.0045	0.003	0.0042
Cumulative Cancer Risk (DC)				7.2E-09	2.6E-09	5.0E-09	--	1.8E-08	9.3E-09	2.1E-08	--	7.2E-09	2.3E-08	8.7E-09	1.7E-08	1.2E-08	1.6E-08

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **B1** : Cumulative exceedance (HI > 1), eventhough no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Notes:
Xylenes reported as total of m-, o-, p-xylenes
NS = No standard established
NA = Not analyzed for parameter
NR = Not Reported
ITALICS indicates exceedance of Groundwater Pathway RCL
BOLD indicates exceedance of Non-industrial Direct Contact RCL

TABLE A.2
Soil Analytical Results
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

				Site Investigation - Alpha Terra Science (Fehr-Graham)													
Sample ID		Groundwater Pathway RCL	Non-Industrial Direct-Contact RCL	B-16		B-17		B-18		B-19		B-20			B-21	
Date				12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12
Depth				2-3'	4-4.5'	1-2'	2.5-3.5'	2-3'	3-4'	2-3'	4-4.75'	1.5-2.5'	4-5'	4-4.5'	2-3'	4-4.5'
Description				sandy silt	sandy silt	sandy silt	sandy silt	silty gravel	silty gravel	silty gravel	silt	silty gravel	silt	silt	silty gravel	silt
DEPTH to Seasonal Low Water Table (ft BGS)				6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
Saturated (S) or Unsaturated (U)				U	U	U	U	U	U	U	U	U	U	U	U	U
PID Reading				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Notes				*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*	*RMVD*					
Benzene	(ug/kg)	*5.1*	**1,490**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Ethylbenzene	(ug/kg)	*1570*	**7,470**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Toluene	(ug/kg)	*1107.2*	**818,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Xylenes (TOTAL)	(ug/kg)	*3940*	**258,000**	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	NA	<75.0	<75.0
m&p-Xylene	(ug/kg)	NS	**778,000**	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	NA	<50.0	<50.0
o-Xylene	(ug/kg)	NS	**434,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Naphthalene	(ug/kg)	*658.2*	**5,150**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
MTBE	(ug/kg)	*27*	**59,400**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
1,2,4-Trimethylbenzene	(ug/kg)	*408*	**89,800**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
1,3,5-Trimethylbenzene	(ug/kg)	NS	**182,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	*1382.1*	NS	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	NA	<50.0	<50.0
Tetrachloroethene (PCE)	(ug/kg)	*4.5*	**30,700**	*510*	*2,320*	*644*	*903*	*111*	*505*	<25.0	*53.5J*	<25.0	<25.0	NA	<25.0	<25.0
Trichloroethene (TCE)	(ug/kg)	*3.6*	**1,260**	<25.0	<25.0	<25.0	<25.0	<25.0	*61.9J*	<25.0	*82.6*	<25.0	<25.0	NA	<25.0	<25.0
cis-1,2-Dichloroethene	(ug/kg)	*41.2*	**156,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
trans-1,2-Dichloroethene	(ug/kg)	*58.8*	**1,560,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Vinyl Chloride	(ug/kg)	*0.1*	**67**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Methylene Chloride	(ug/kg)	*2.6*	**60,700**	*51.6J*	*41.1J*	*42.2J*	*37.1J*	*31.0J*	<25.0	*29.2J*	<25.0	<25.0	<25.0	NA	<25.0	<25.0
Total Organic Carbon	(mg/kg)			NA	NA	NA	5,220	NA	NA	NA	NA	NA	NA	1,785	NA	NA
No. of Individual Exceedances (DC)				0	0	0	0	0	0	0	0	--	--	--	--	--
Cumulative Hazard Index (DC)				0.0046	0.0203	0.0067	0.0079	0.001	0.0158	0.0001	0.0141	--	--	--	--	--
Cumulative Cancer Risk (DC)				1.7E-08	7.6E-08	2.8E-08	3.0E-08	4.1E-09	7.1E-08	4.8E-10	6.7E-08	--	--	--	--	--

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **B1** : Cumulative exceedance (HI > 1), eventhough no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Notes:
Xylenes reported as total of m-, o-, p-xylenes
NS = No standard established
NA = Not analyzed for parameter
NR = Not Reported
ITALICS indicates exceedance of Groundwater Pathway RCL
BOLD indicates exceedance of Non-industrial Direct Contact RCL

TABLE A.2
Soil Analytical Results
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

				August 5-6, 2015 Remedial Action Excavation														
Sample ID		Groundwater Pathway RCL	Non-Industrial Direct-Contact RCL	AN	AS	AE	AW	BN	BS	BE	BW	CN	CE	CW	DN	DS	DE	DW
Date				8/5/15	8/5/15	8/5/15	8/5/15	8/5/15	8/5/15	8/5/15	8/5/15	8/6/15	8/6/15	8/6/15	8/6/15	8/6/15	8/6/15	8/6/15
Depth				1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'	1-4'
Description				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DEPTH to Seasonal Low Water Table (ft BGS)				6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'	6'
Saturated (S) or Unsaturated (U)				U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
PID Reading				0.2	0.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
Notes																		
Benzene	(ug/kg)	*5.1*	**1,490**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	(ug/kg)	*1570*	**7,470**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Toluene	(ug/kg)	*1107.2*	**818,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Xylenes (TOTAL)	(ug/kg)	*3940*	**258,000**	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0
m&p-Xylene	(ug/kg)	NS	**778,000**	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
o-Xylene	(ug/kg)	NS	**434,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Naphthalene	(ug/kg)	*658.2*	**5,150**	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0	<40.0
MTBE	(ug/kg)	*27*	**59,400**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,2,4-Trimethylbenzene	(ug/kg)	*408*	**89,800**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
1,3,5-Trimethylbenzene	(ug/kg)	NS	**182,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Trimethylbenzene Total (1,2,4- & 1,3,5-)	(ug/kg)	*1382.1*	NS	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Tetrachloroethene (PCE)	(ug/kg)	*4.5*	**30,700**	<25.0	*27.7 J*	*117*	<25.0	*118*	*3,660*	*667*	*87.1*	*146*	*70.0 J*	*87.1*	*170*	*598*	*128*	*61.1 J*
Trichloroethene (TCE)	(ug/kg)	*3.6*	**1,260**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
cis-1,2-Dichloroethene	(ug/kg)	*41.2*	**156,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
trans-1,2-Dichloroethene	(ug/kg)	*58.8*	**1,560,000**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Vinyl Chloride	(ug/kg)	*0.1*	**67**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Methylene Chloride	(ug/kg)	*2.6*	**60,700**	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Total Organic Carbon	(mg/kg)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
No. of Individual Exceedances (DC)				--	0	0	--	0	0	0	0	0	0	0	0	0	0	0
Cumulative Hazard Index (DC)				--	0.0002	0.001	--	0.001	0.0318	0.0058	0.0008	0.0013	0.0006	0.0008	0.0015	0.0052	0.0011	0.0005
Cumulative Cancer Risk (DC)				--	9.0E-10	3.8E-09	--	3.8E-09	1.2E-07	2.2E-08	2.8E-09	4.8E-09	2.3E-09	2.8E-09	5.5E-09	1.9E-08	4.2E-09	2.0E-09

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **B1** : Cumulative exceedance (HI > 1), eventhough no individual DC RCL was exceeded.

Italic font indicates GW RCL Exceedance. Groundwater quality (> NR 140 ES) may be affected when GW RCLs are exceeded.

Notes:
Xylenes reported as total of m-, o-, p-xylenes
NS = No standard established
NA = Not analyzed for parameter
NR = Not Reported
ITALICS indicates exceedance of Groundwater Pathway RCL
BOLD indicates exceedance of Non-industrial Direct Contact RCL

TABLE A.6
Water Level Elevations
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Well Identification	MW-1	PZ-1	MW-2	MW-3	SMW-3	MW-4	MW-5
Top of Casing Elevation (ft MSL)	98.61	99.15	98.31	98.29	--	99.27	98.92
Top of Casing Elevation (ft MSL)*	602.01	602.07	600.55	--	601.25	601.51	601.69
Ground Surface Elevation (ft. MSL)	99.01	99.51	98.63	98.71	--	99.71	99.19
Ground Surface Elevation (ft. MSL)*	602.28	602.26	600.80	--	601.45	601.83	601.95
Total Well Depth	12.43	22.23	12.70	12.89	15.30	12.30	12.64
Stickup	-0.40	-0.36	-0.32	-0.42		-0.44	-0.27
Stickup*	-0.27	-0.19	-0.25	--	-0.20	-0.32	-0.26
Screened Elevation (ft MSL)							

Well Identification	MW-6	MW-7	MW-8	MW-9	GEC TW-4	GEC TW-5
Top of Casing Elevation (ft MSL)	97.65	97.83	98.91	97.43		
Top of Casing Elevation (ft MSL)*	601.23	601.39	602.24	599.89	602.19	
Ground Surface Elevation (ft. MSL)	97.93	98.13	99.29	97.77	0.00	0.00
Ground Surface Elevation (ft. MSL)*	601.27	601.66	602.38	600.16	602.70	
Total Well Depth	12.55	12.26	12.54	13.50	12.88	12.68
Stickup	-0.28	-0.30	-0.38	-0.34	0.00	
Stickup*	-0.04	-0.27	-0.14	-0.27	-0.51	0.00
Screened Elevation (ft MSL)						

	MW-1			PZ-1			MW-2		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999	4.83	5.23	597.18	12.64	13.00	589.43	4.81	5.13	595.74
1/3/2000	6.61	7.01	595.40	6.90	7.26	595.17	6.78	7.10	593.77
4/22/2004	3.98	4.38	598.03	5.20	5.56	596.87	4.76	5.08	595.79
7/22/2004	4.05	4.45	597.96	5.16	5.52	596.91	5.02	5.34	595.53
10/27/2004	5.07	5.47	596.94	5.92	6.28	596.15	5.65	5.97	594.90
1/25/2005	5.84	6.24	596.17	6.90	7.26	595.17	6.67	6.99	593.88
10/31/2006	4.10	4.50	597.91	5.07	5.43	597.00	4.91	5.23	595.64
4/30/2007	3.43	3.83	598.58	4.89	5.25	597.18	4.43	4.75	596.12
10/15/2010	3.98	4.38	598.03	5.29	5.65	596.78	4.80	5.12	595.75
12/12/2012	4.69	5.09	597.32	7.80	8.16	594.27	5.97	6.29	594.58
11/12/2015	3.22	3.62	598.79	4.86	5.22	597.21	4.60	4.92	595.95
4/21/2016	2.77	3.17	599.24		No Data			No Data	
6/24/2016	3.70	4.10	598.31	5.10	5.46	596.97	4.84	5.16	595.71
9/22/2016*	5.72	5.99	596.29	7.20	7.39	594.87	4.80	5.05	595.75
12/22/2016*	6.02	6.29	595.99	6.88	7.07	595.19	5.68	5.93	594.87

	MW-3			SMW-3			MW-4		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999	2.65	3.07	598.60		Not Installed		2.84	3.28	598.67
1/3/2000	4.94	5.36	596.31		Not Installed		5.25	5.69	596.26
4/22/2004	2.57	2.99	598.68		Not Installed		2.55	2.99	598.96
7/22/2004	2.78	3.20	598.47		Not Installed			No Data	
10/27/2004	3.74	4.16	597.51		Not Installed		4.08	4.52	597.43
1/25/2005	5.10	5.52	596.15		Not Installed			No Data	
10/31/2006	3.06	3.48	598.19		Not Installed		3.35	3.79	598.16
4/30/2007	2.21	2.63	599.04		Not Installed			No Data	
10/15/2010	3.19	3.61	598.06		Not Installed		3.28	3.72	598.23
12/12/2012	4.92	5.34	596.33		Not Installed		4.44	4.88	597.07
11/12/2015	Abandoned 2015 Excavation			5.68	5.68	595.57	4.22	4.66	597.29
4/21/2016	Abandoned 2015 Excavation			5.63	5.63	595.62	3.61	4.05	597.90
6/24/2016	Abandoned 2015 Excavation			5.56	5.56	595.69	4.24	4.68	597.27
9/22/2016*	Abandoned 2015 Excavation			6.18	6.38	595.07	4.61	4.93	596.90
12/22/2016*	Abandoned 2015 Excavation			6.29	6.49	594.96	5.18	5.50	596.33

TABLE A.6
Water Level Elevations
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Well Identification	MW-1	PZ-1	MW-2	MW-3	SMW-3	MW-4	MW-5
Top of Casing Elevation (ft MSL)	98.61	99.15	98.31	98.29	--	99.27	98.92
Top of Casing Elevation (ft MSL)*	602.01	602.07	600.55	--	601.25	601.51	601.69
Ground Surface Elevation (ft. MSL)	99.01	99.51	98.63	98.71	--	99.71	99.19
Ground Surface Elevation (ft. MSL)*	602.28	602.26	600.80	--	601.45	601.83	601.95
Total Well Depth	12.43	22.23	12.70	12.89	15.30	12.30	12.64
Stickup	-0.40	-0.36	-0.32	-0.42		-0.44	-0.27
Stickup*	-0.27	-0.19	-0.25	--	-0.20	-0.32	-0.26
Screened Elevation (ft MSL)							

Well Identification	MW-6	MW-7	MW-8	MW-9	GEC TW-4	GEC TW-5
Top of Casing Elevation (ft MSL)	97.65	97.83	98.91	97.43		
Top of Casing Elevation (ft MSL)*	601.23	601.39	602.24	599.89	602.19	
Ground Surface Elevation (ft. MSL)	97.93	98.13	99.29	97.77	0.00	0.00
Ground Surface Elevation (ft. MSL)*	601.27	601.66	602.38	600.16	602.70	
Total Well Depth	12.55	12.26	12.54	13.50	12.88	12.68
Stickup	-0.28	-0.30	-0.38	-0.34	0.00	
Stickup*	-0.04	-0.27	-0.14	-0.27	-0.51	0.00
Screened Elevation (ft MSL)						

	MW-5			MW-6			MW-7		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999		Not Installed			Not Installed			Not Installed	
1/3/2000	4.83	5.10	596.86	4.94	5.22	596.29	6.61	6.91	594.78
4/22/2004	2.13	2.40	599.56	2.60	2.88	598.63	3.71	4.01	597.68
7/22/2004		No Data			No Data			No Data	
10/27/2004	3.64	3.91	598.05	3.74	4.02	597.49	4.91	5.21	596.48
1/25/2005		No Data			No Data			No Data	
10/31/2006	3.06	3.33	598.63	3.38	3.66	597.85	4.11	4.41	597.28
4/30/2007		No Data			No Data			No Data	
10/15/2010	2.96	3.23	598.73	3.39	3.67	597.84	4.19	4.49	597.20
12/12/2012	5.07	5.34	596.62	4.89	5.17	596.34	4.76	5.06	596.63
11/12/2015	5.00	5.27	596.69	4.67	4.95	596.56	3.58	3.88	597.81
4/21/2016		No Data			No Data		3.71	4.01	597.68
6/24/2016	5.00	5.27	596.69	4.63	4.91	596.60	4.18	4.48	597.21
9/22/2016*	5.50	5.76	596.19	6.79	6.83	594.44	6.39	6.66	595.00
12/22/2016*	5.95	6.21	595.74	6.28	6.32	594.95	6.62	6.89	594.77

	MW-8			MW-9			GEC TW-4		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl.)
6/8/1999		Not Installed			Not Installed			No Data	
1/3/2000	6.41	6.79	595.83		Not Installed			No Data	
4/22/2004	4.03	4.41	598.21	4.31	4.65	595.58		No Data	
7/22/2004		No Data			No Data			No Data	
10/27/2004	5.26	5.64	596.98	5.24	5.58	594.65		No Data	
1/25/2005		No Data			No Data			No Data	
10/31/2006	4.07	4.45	598.17	4.00	4.34	595.89		No Data	
4/30/2007		No Data			No Data			No Data	
10/15/2010	3.89	4.27	598.35	6.03	6.37	593.86		No Data	
12/12/2012	4.78	5.16	597.46	6.74	7.08	593.15		No Data	
11/12/2015	3.12	3.50	599.12	4.57	4.91	595.32	4.03	4.03	598.16
4/21/2016	2.75	3.13	599.49		No Data		3.40	3.40	598.79
6/24/2016	4.96	5.34	597.28	5.65	5.99	594.24	4.28	4.28	597.91
9/22/2016*	5.51	5.65	596.73	5.39	5.66	594.50	5.43	5.94	596.76
12/22/2016*	5.60	5.74	596.64	6.10	6.37	593.79	5.62	6.13	596.57

	GEC TW-5		
Sample Date	Depth to Water (ft below PVC Lip)	Depth to Water (below grade)	Groundwater Elev. (ft msl)
11/12/2015	3.77	3.77	-3.77
4/21/2016	3.51	3.51	-3.51
6/24/2016	3.93	3.93	-3.93
9/22/2016*	5.92	5.92	-5.92
12/22/2016*		Not Sampled	

NOTES:
ft MSL - Feet below Mean Sea Level
* = Elevations resurveyed after construction (10/13/16)

TABLE A.7
Groundwater Natural Attenuation
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140 Preventive Action Limit	NR 140 Enforcement Standard	MW-1													PZ-1												
Sample Date				1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/15/15	6/24/16	9/22/16	12/22/16	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16
Groundwater Elevation				595.40	598.03	597.96	596.94	596.17	597.91	598.58	598.03	597.32	598.79	598.31	596.29	595.99	595.17	596.87	596.91	596.15	595.17	597.00	597.18	596.78	594.27	597.21	596.97	594.87	595.19
FIELD PARAMETERS																													
Temperature	C°	NS	NS	8.8	13.8	23.9	18.3	9.6	16.2	14.9	19.1	14.74	14.68	15.46	16.48	13.24	8.9	14.1	23.4	15.1	10.7	15.4	15.0	14.1	14.87	15.77	NOT SAMPLED	14.33	13.69
Specific Conductivity	mS/cm	NS	NS	1005	1652	1618	1691	1767	1463	1121	1217	900	476	--	781	886	192	261	261	233	257	275	236	332	187	190		161	425
Dissolved Oxygen (field)	mg/l	NS	NS	1	5	5	4	4	3	6	--	5.73	7.77	6.07	1.10	4.12	1	4	4	3	3	4	5	--	1.40	3.90		1.32	3.33
pH		NS	NS	7.05	7.11	7.14	7.41	7.15	7.26	7.18	6.85	7.18	7.42	7.34	6.93	5.69	8.35	7.98	8.13	8.50	8.20	8.18	8.04	7.36	8.00	7.73		6.28	5.49
ORP	eV	NS	NS	--	--	--	--	--	--	--	--	-30.6	195.9	87.0	170.0	144.4	--	--	--	--	--	--	--	--	-61.6	191.2		224.0	148.6

Notes:

NS = No standard established

Bold value indicates exceedance of NR 140.10 or 140.12 Enforcement Standard

ITALICS value exceeds NR 140.10 or 140.12 PAL

*: Public Welfare Standard from Table 2, NR 140.12

**: Values beyond standard range of concentration, meter operation suspect

TABLE A.7
Groundwater Natural Attenuation
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140 Preventive Action Limit	NR 140 Enforcement Standard	MW-2													MW-3									
Sample Date				1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16	1/3/00	4/22/04	7/22/04	10/28/04	1/25/05	10/31/06	4/30/07	10/15/10	12/12/12	11/12/15
Groundwater Elevation				593.77	595.79	595.53	594.90	593.88	595.64	596.12	595.75	594.58	595.95	595.71	595.75	594.87	596.31	598.68	598.47	597.51	596.15	598.19	599.04	598.04	596.33	--
FIELD PARAMETERS																										
Temperature	C°	NS	NS	8.1	8.2	19.1	15.3	7.2	13.3	9.9	15.6	13.52	13.89	14.55	16.25	11.58	7.8	7.4	16.7	16.5	9.0	13.2	10.6	18.2	12.54	REMOVED DURING 2015 EXCAVATION
Specific Conductivity	mS/cm	NS	NS	3030	6690	4120	5190	4690	3420	3110	3730	2285	1679	1717	2349	1589	710	901	929	801	919	811	665	633	604	
Dissolved Oxygen (field)	mg/l	NS	NS	<1	3	5	2	5	3	4	--	2.54	7.30	3.88	1.69	12.93	<1	6	5	2	4	3	6	--	4.21	
pH		NS	NS	6.83	6.86	6.99	7.28	7.10	7.19	7.25	7.03	7.04	6.64	5.90	6.27	5.19	7.23	7.31	7.36	7.60	7.47	7.30	7.18	6.89	7.28	
ORP	eV	NS	NS	--	--	--	--	--	--	--	--	-42.3	155.9	134.0	188.0	144.8	--	--	--	--	--	--	--	--	-48.3	

Notes:

NS = No standard established

Bold value indicates exceedance of NR 140.10 or 140.12 Enforcement Standard

ITALICS value exceeds NR 140.10 or 140.12 PAL

*: Public Welfare Standard from Table 2, NR 140.12

**: Values beyond standard range of concentration, meter operation suspect

TABLE A.7
Groundwater Natural Attenuation
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140 Preventive Action Limit	NR 140 Enforcement Standard	SMW-3				MW-4										MW-5									
Sample Date				11/12/15	6/24/16	9/22/16	12/22/16	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16
Groundwater Elevation				595.57	595.69	595.07	594.96	596.26	598.96	597.43	598.16	598.23	597.07	597.29	597.27	596.90	596.33	596.86	599.56	598.05	598.63	598.73	596.62	596.69	596.69	596.19	595.74
FIELD PARAMETERS																											
Temperature	C°	NS	NS	15.19	13.48	20.10	12.21	8.0	9.4	16.9	13.4	19.5	13.38	16.24	16.92	23.13	12.14	10.5	8.4	17.2	13.5	17.6	12.93	14.57	NOT SAMPLED	20.60	11.72
Specific Conductivity	mS/cm	NS	NS	501	996	918	1767	713	760	757	776	659	433	532	659	585	566	598	1039	896	828	722	560	501		482	554
Dissolved Oxygen (field)	mg/l	NS	NS	6.17	4.01	0.96	5.19	1	5	4	5	--	6.60	3.84	4.64	1.12	15.66	5	5	4	2	--	576.00	7.45		5.06	15.32
pH		NS	NS	7.41	6.70	7.16	5.56	7.19	7.20	7.57	7.38	6.38	7.46	7.15	7.49	7.88	5.99	7.58	7.24	7.55	7.25	6.41	7.34	7.05		7.08	5.35
ORP	eV	NS	NS	182.4	118.7	167.0	142.9	--	--	--	--	--	-48.6	185.9	70.1	188.0	202.6	--	--	--	--	--	-41.2	189.5		197.0	196.8

Notes:

NS = No standard established

Bold value indicates exceedance of NR 140.10 or 140.12 Enforcement Standard

ITALICS value exceeds NR 140.10 or 140.12 PAL

*: Public Welfare Standard from Table 2, NR 140.12

**: Values beyond standard range of concentration, meter operation suspect

TABLE A.7
Groundwater Natural Attenuation
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140 Preventive Action Limit	NR 140 Enforcement Standard	MW-6										MW-7									
Sample Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16	1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16
Groundwater Elevation				596.29	598.63	597.49	597.85	597.84	596.34	596.56	596.60	594.44	594.95	594.78	597.68	596.48	597.28	597.20	596.63	597.81	597.21	595.00	594.77
FIELD PARAMETERS																							
Temperature	C°	NS	NS	9.8	8.2	17.5	14.9	17.3	12.12	13.96	13.01	16.26	12.41	8.8	6.8	17.7	15.6	18.9	14.45	15.27	16.25	17.20	12.97
Specific Conductivity	mS/cm	NS	NS	1321	4350	2170	1246	877	518	558	433	117	530	448	1979	1611	1175	782	992	606	712	917	879
Dissolved Oxygen (field)	mg/l	NS	NS	4	4	3	3.5	--	1.73	1.47	2.08	4.34	1.21	<1	3	4	5	--	3.77	5.29	4.03	1.67	9.38
pH		NS	NS	7.27	7.00	7.67	7.37	6.64	7.43	7.00	5.56	5.74	4.75	7.49	6.77	7.26	7.17	6.78	7.14	6.97	6.95	6.62	5.41
ORP	eV	NS	NS	--	--	--	--	--	-65.4	31.3	166.4	233.0	195.6	--	--	--	--	--	-30.8	217.8	104.2	178.0	141.3

Notes:

NS = No standard established

Bold value indicates exceedance of NR 140.10 or 140.12 Enforcement Standard

ITALICS value exceeds NR 140.10 or 140.12 PAL

*: Public Welfare Standard from Table 2, NR 140.12

**: Values beyond standard range of concentration, meter operation suspect

TABLE A.7
Groundwater Natural Attenuation
One Hour Martinizing
1923 Main St., Green Bay, WI 54302
BRRTS #02-05-217276

Sample ID		NR 140 Preventive Action Limit	NR 140 Enforcement Standard	MW-8										MW-9								
Sample Date				1/3/00	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16	4/22/04	10/28/04	10/31/06	10/15/10	12/12/12	11/12/15	6/24/16	9/22/16	12/22/16
Groundwater Elevation				595.83	598.21	596.98	598.17	598.35	597.46	599.12	597.28	596.73	596.64	595.58	594.65	595.89	593.86	593.15	595.32	594.24	594.50	593.79
FIELD PARAMETERS																						
Temperature	C°	NS	NS	10.1	9.5	17.8	16.0	18.3	14.84	15.46	NOT SAMPLED	16.94	11.98	9.7	16.8	15.8	17.1	12.84	13.60	12.95	17.62	11.61
Specific Conductivity	mS/cm	NS	NS	745	1462	1573	1207	905	841	643		609	487	11280	3340	2790	1394	824	678	667	705	835
Dissolved Oxygen (field)	mg/l	NS	NS	6	6	4	5	--	5.06	4.37		1.57	16.06	--	7	--	--	2.08	8.90	2.75	1.14	2.67
pH		NS	NS	7.21	7.29	7.41	7.35	7.10	7.27	7.02		6.83	5.70	7.02	7.74	7.49	7.14	7.78	7.31	6.79	5.68	2.19
ORP	eV	NS	NS	--	--	--	--	--	-30.0	104.9		183.0	142.1	--	--	--	--	-48.5	117.1	101.2	205.0	117.1

Notes:

NS = No standard established

Bold value indicates exceedance of NR 140.10 or 140.12 Enforcement Standard

ITALICS value exceeds NR 140.10 or 140.12 PAL

*: Public Welfare Standard from Table 2, NR 140.12

**: Values beyond standard range of concentration, meter operation suspect

Appendices

Appendix A: Site Plan

Appendix B: Disposal Documentation

Appendix C: Photlog

Appendix D: Geotechnical Reports

Appendix E: Laboratory Analytical Reports

Appendix F: Boring Logs

Appendix G: Contaminant Trend Analysis

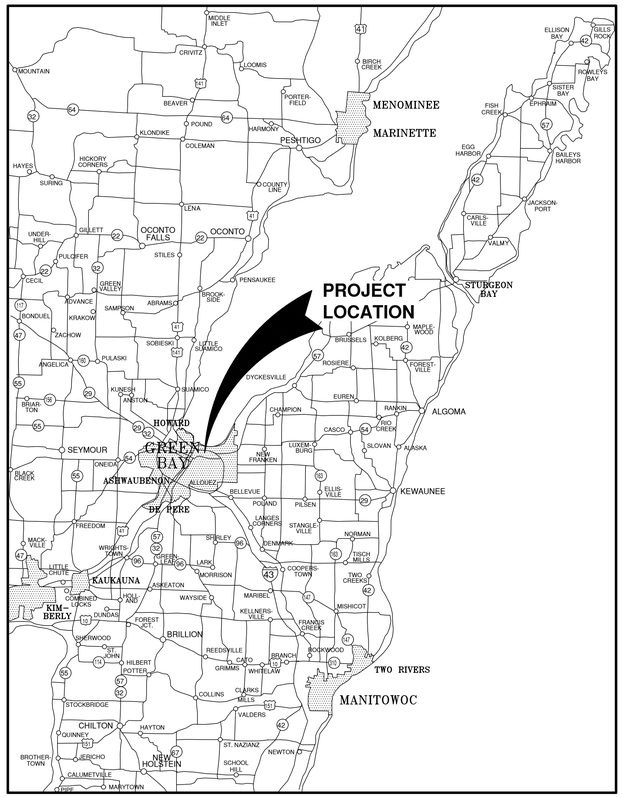
Appendix H: Change Order Cost Estimate

Appendix A

Site Plan

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC
CITY OF GREEN BAY, BROWN COUNTY WISCONSIN

ATTENTION!
DOWNLOADED PLANS ARE NOT SCALEABLE, NEITHER THE OWNER OR THE ENGINEER SHALL BE HELD RESPONSIBLE FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS. ONLY PRINTED PLANS FROM BLUE PRINT SERVICE CO., INC. SHALL BE CONSIDERED TO BE SCALEABLE PLANS.

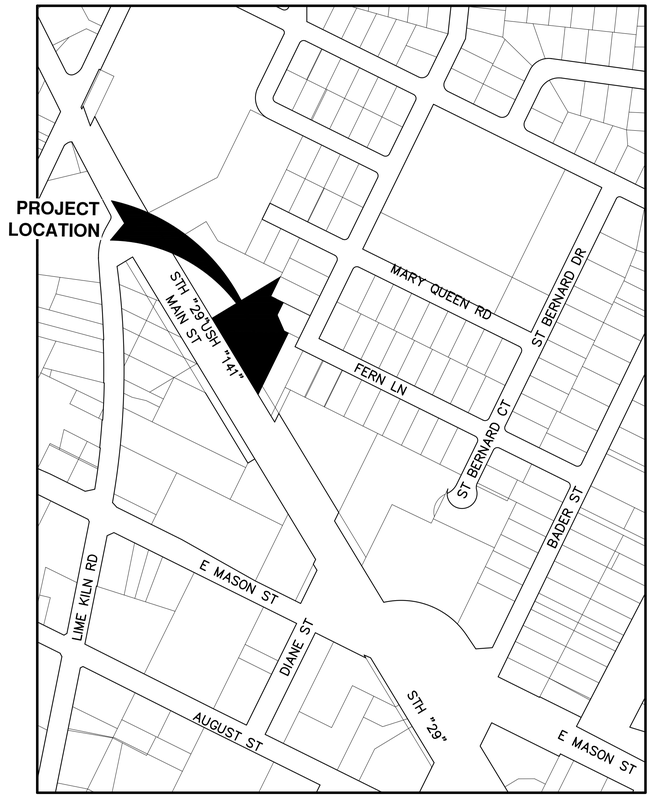


VICINITY MAP

NOTE:
EXISTING UTILITIES SHOWN ON PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES, WHETHER SHOWN OR NOT, FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITY OWNERS SHALL BE NOTIFIED FOR LOCATES BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

NOTE:
ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL CONFORM TO THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES CONSTRUCTION SITE EROSION CONTROL AND TECHNICAL STANDARDS.

INDEX TO DRAWINGS



LOCATION MAP

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

LOCATION MAP AND INDEX TO DRAWINGS

DATE 05/2016
FILE 5642001C
JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD
HOBART, WI 54155 PHONE:(920) 662-9641
INTERNET: www.releeinc.com FAX:(920) 662-9141

SHEET NO. C-0

File: R:\5600\5642\5642002\dwg\5642002c.dwg
Plot Date: May 25, 2016 - 9:00am

DEMOLITION NOTES

1. ALL EXISTING BUILDINGS AND MISCELLANEOUS STRUCTURES ON SITE TO BE DEMOLISHED AND REMOVED.
2. EXISTING ASPHALT AND BASE COURSE MAY BE PULVERIZED AND STOCKPILED ON SITE FOR FUTURE USE.
3. EXISTING GAS, ELECTRIC, CABLE TELEVISION AND TELEPHONE TO BE REMOVED AND/OR RELOCATED BY OTHERS. WORK SHALL BE COORDINATED BY GENERAL CONTRACTOR.
4. DRIVEWAY OPENINGS SHALL BE REMOVED AND CURB OPENINGS SHALL BE CLOSED IN ACCORDANCE WITH CITY OF GREEN BAY STANDARDS.
5. NO STOCKPILING OF CONSTRUCTION DEBRIS ALLOWED ON SITE, MUST BE REMOVED AND HAULED OFF-SITE.

LEGEND

- FIRE HYDRANT
- WATER VALVE/CURB STOP
- WATER MANHOLE
- REDUCER/INCREASER
- SANITARY MANHOLE
- AIR RELIEF MANHOLE
- STORM MANHOLE
- OPEN STORM MANHOLE
- STORM INLET
- STORM INLET MANHOLE
- TANK COVER
- SOIL BORING
- POST
- IRON PIPE/ROD
- PK NAIL
- POWER POLE
- POWER POLE W/GUY WIRE
- LIGHT POLE
- TRAFFIC SIGNAL POLE
- ELECTRIC MANHOLE
- ELECTRIC METER
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- CABLE TV MANHOLE
- CABLE TV PEDESTAL
- GAS VALVE
- GAS METER
- MAILBOX
- SIGN
- BOLLARD
- DECIDUOUS TREE
- CONIFEROUS TREE
- BUSH
- RIP RAP
- CULVERT
- CONCRETE
- WETLANDS
- HANDICAP PARKING

- EDGE OF ASPHALT
- EDGE OF GRAVEL
- CURB & GUTTER
- TREE/BRUSH LINE
- CONTOUR LINE
- RETAINING WALL
- GUARD RAIL
- FENCE
- SANITARY SEWER (SIZE NOTED)
- FORCEMAIN (SIZE NOTED)
- STORM SEWER (SIZE NOTED)
- WATERMAIN (SIZE NOTED)
- GAS LINE
- OVERHEAD TELEPHONE LINE
- UNDERGROUND TELEPHONE LINE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- OVERHEAD CABLE TV LINE
- CABLE TV LINE
- FIBER OPTIC LINE
- R/W LINE
- PROPERTY LINE
- EASEMENT LINE
- BUILDING SETBACK LINE
- SECTION LINE

GR.	GRAVEL	WM	WATERMAIN	VPC	VERTICAL POINT OF CURVATURE	B-B	BACK TO BACK (OF CURB)
BIT.	BITUMINOUS	HYD.	HYDRANT	VPI	VERTICAL POINT OF INTERSECTION	F-F	FACE TO FACE (OF CURB)
ASPH.	ASPHALT	WV	WATER VALVE	VPT	VERTICAL POINT OF TANGENCY	R/W	RIGHT OF WAY
CONC.	CONCRETE	SAN	SANITARY SEWER	PC	POINT OF CURVATURE	T/C	TOP OF CURB
SW	SIDEWALK	MH	MANHOLE	PI	POINT OF INTERSECTION	F/L	FLOW LINE
BLDG	BUILDING	ST	STORM SEWER	PT	POINT OF TANGENCY	C/L	CENTERLINE
HSE	HOUSE	CB	CATCH BASIN	R	RADIUS	R/L	REFERENCE LINE
PED	PEDESTAL	TELE	TELEPHONE	EX	EXISTING	INV.	INVERT
PP	POWER POLE	ELEC	ELECTRIC	PR	PROPOSED	CMP	CORRUGATED METAL PIPE
LP	LIGHT POLE	TV	TELEVISION	EOR	END OF RADIUS	RCP	REINFORCED CONCRETE PIPE
BM	BENCH MARK	STA.	STATION	BOC	BACK OF CURB	CULV.	CULVERT

BENCHMARK	BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC. **FIELD VERIFY BENCHMARKS FOR ACCURACY.**	
NO.	DESCRIPTION	EL.
1	TOP NUT ON FIRE HYDRANT	119.88

OWNER INFORMATION:

GB REAL EASTATE INVETMENTS, LLC
300 NORTH VAN BUREN ST.
GREEN BAY, WI 54301

(813)500-02-96

CONTACT: GARRITT BADER

SURVEYOR'S NOTES:

ALL SURVEY WORK WAS CONDUCTED BY CAROW LAND SURVEYING. (920)731-4168 PLEASE CONTACT ENGINEER IF THERE IS ANY DISCREPANCIES WITHIN THE PLAN.

NORTH

0' 20' 40'

SCALE IN FEET

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT | CHECKED JGS | DESIGNED BLT

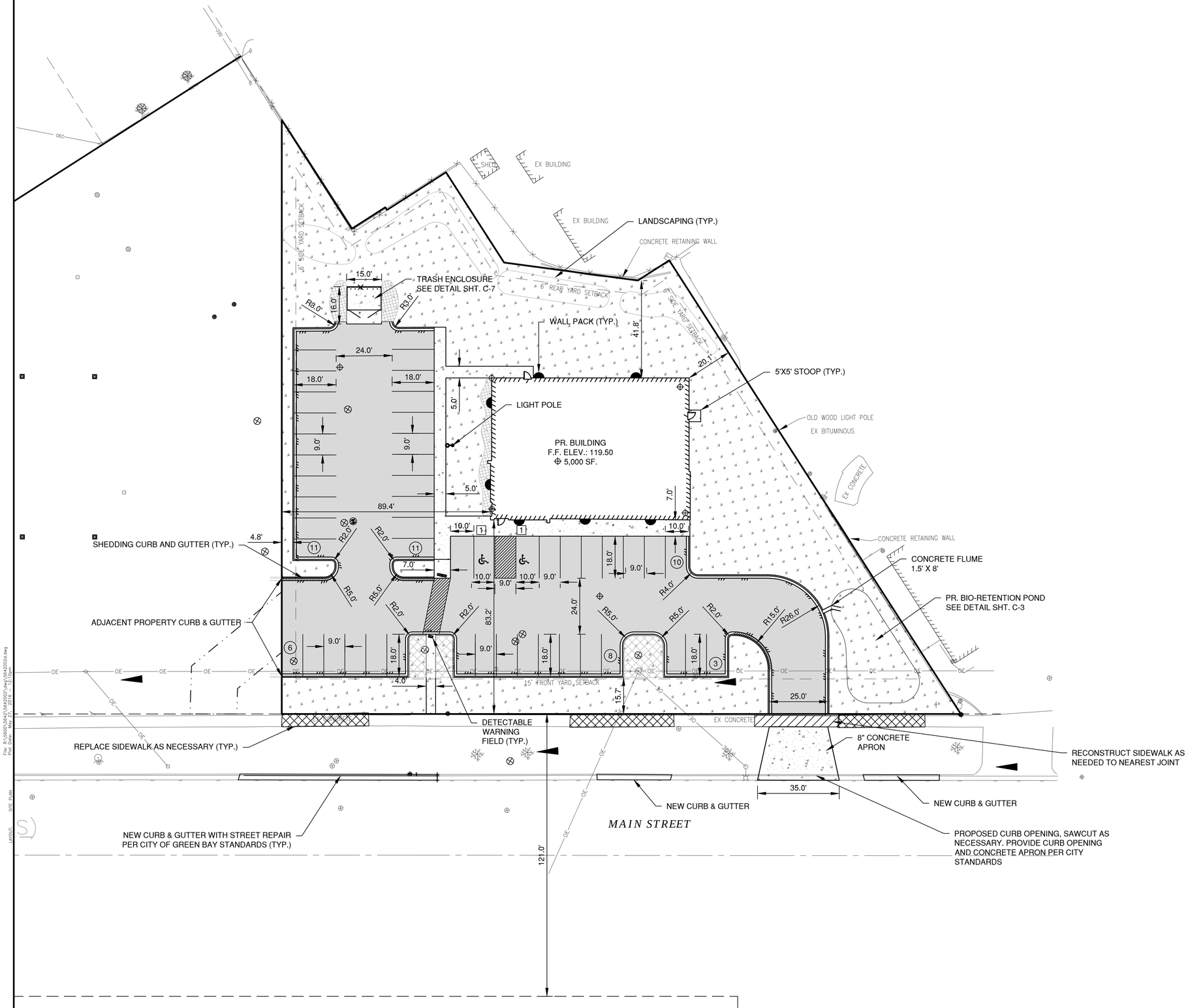
PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

EXISTING SITE CONDITIONS

DATE 05/2016 | FILE 5642002T | JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releinc.com
Celebrating 60 Years of Excellence

SHEET NO. C-1



NOTE

ALL AREAS DESIGNATED AS "GREEN SPACE" OR "LAWN", SHALL BE TOPSOILED TO A DEPTH OF 6 INCHES, SEEDED AND MULCHED. AREA TO BE RAKED FREE OF STONES AND CLUMPS.

PARKING DATA

TOTAL PARKING SPACES PROVIDED = 49

HANDICAP ACCESSIBLE PARKING SPACES = 2

TOTAL PARKING SPACES REQUIRED = 17 (SPACE PER 300 SF. $\frac{5000}{300}$=16.67)

SITE DATA

TOTAL AREA = 1.07 ACRES, 46,637 S.F.

BUILDING AREA = .11 ACRES, 5,000 S.F. (10.3%)

SIDEWALK/PARKING LOT AREA = 0.46 ACRES, 19,654 S.F. (42.0%)

GREEN SPACE = 0.50 ACRES, 21,983 S.F. (47.7%)

ZONING

C-1 COMMERCIAL ONE

CONSTRUCTION CLASSIFICATION

VB NON-SPRINKLED

PARCEL NO.

21-1323-1 LOT 1 57CSM357

LEGEND

- CONCRETE PAVEMENT (3,076 S.F.)
- ASPHALT PAVEMENT (16,578 S.F.)
- LANDSCAPE AREA
- GREEN SPACE
- PROPOSED 18" CURB & GUTTER (UNLESS OTHERWISE NOTED)
- PROPOSED SHEDDING CURB & GUTTER
- TRAFFIC FLOW ARROW
- HANDICAPPED PARKING
- (12) INDICATES NUMBER OF PARKING STALLS
- LIGHT POLE
- WALL PACK

1

NOTE: ALL DIMENSIONS ARE TO THE FACE OF CURB, UNLESS NOTED OTHERWISE

1. THE CITY OF GREEN BAY DEPARTMENT OF PUBLIC WORKS MUST BE NOTIFIED (3) THREE WORKING DAYS BEFORE THE START OF ANY CONSTRUCTION WITHIN A PUBLIC RIGHT OF WAY OR EASEMENT. CONTACT MATT HECKENLAIBLE, (920) 448-3100.

NORTH

0' 20' 40'

SCALE IN FEET

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

NO.	DATE	APPROV.	REVISION

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

SITE PLAN

DATE 05/2016
FILE 5642002D
JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
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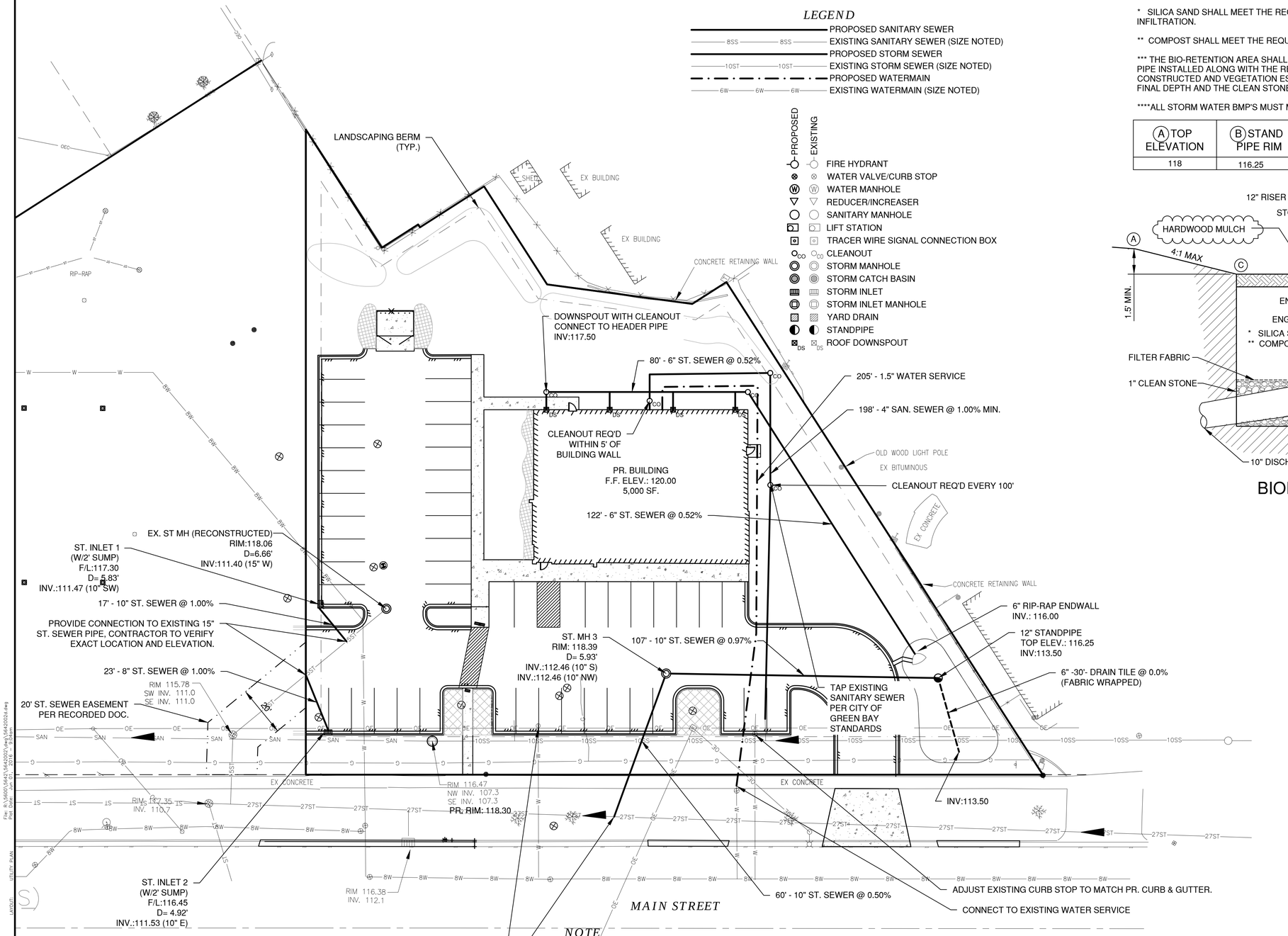
SHEET NO. C-2



NOTE:

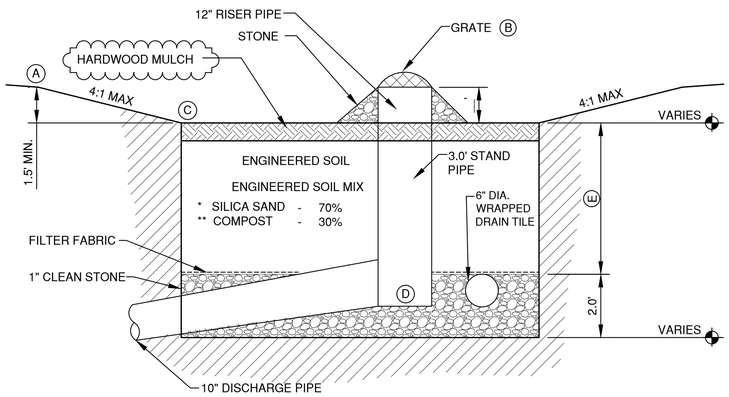
* SILICA SAND SHALL MEET THE REQUIREMENTS OF WDNR TECHNICAL STANDARD 1004, BIORETENTION FOR INFILTRATION.

** COMPOST SHALL MEET THE REQUIREMENTS OF WDNR SPECIFICATION S100.

*** THE BIO-RETENTION AREA SHALL BE EXCAVATED TO THE ENGINEERED SOIL DEPTH AND THE 4" DISCHARGE PIPE INSTALLED ALONG WITH THE REMAINDER OF THE STORM SEWER ON SITE. AFTER THE SITE HAS BEEN CONSTRUCTED AND VEGETATION ESTABLISHED, THE BIO-RETENTION AREA SHALL THEN BE EXCAVATED TO FINAL DEPTH AND THE CLEAN STONE, DRAIN TILE, ENGINEERED SOIL, AND HARDWOOD MULCH INSTALLED.

****ALL STORM WATER BMP'S MUST MEET WDNR STANDARDS

(A) TOP ELEVATION	(B) STAND PIPE RIM	(C) BOTTOM AREA (S.F.), ELEV.	(D) DISCHARGE PIPE INV.	(E) ENGINEERED SOIL DEPTH
118	116.25	630, 116	113.50	2.0



BIORETENTION POND DETAIL

Scientific Name	Common Name	No. of Plants
Forbs		
Anemone canadensis	Canada Anemone	19
Asclepias incarnata	Marsh Milkweed	11
Aster novae-angliae	New England Aster	19
Aster umbellatus	Flat-topped Aster	11
Chelone glabra	Turtlehead	22
Eupatorium maculatum	Spotted Joe-Pye Weed	22
Eupatorium perfoliatum	Boneset	33
Geranium maculatum	Wild Geranium	26
Helenium autumnale	Sneezeweed	26
Iris versicolor	Northern Blue Flag Iris	37
Liatris pycnostachya	Prairie Blazing Star	30
Lobelia cardinalis	Cardinal Flower	11
Lobelia siphilitica	Great Blue Lobelia	22
Physostegia virginiana	Obedient Plant	7
Pycnanthemum virginianum	Common Mountain Mint	37
Solidago riddellii	Riddell's Goldenrod	7
Verbena hastata	Blue Vervain	30
Zizia aurea	Golden Alexanders	7
Grasses		
Anthoxanthum hirtum	Sweet Grass	26
Calamagrostis canadensis	Bluejoint	59
Carex bebbii	Bebb's Sedge	19
Carex cristatella	Crested Oval Sedge	33
Carex vulpinoidea	Brown Fox Sedge	74
Elymus virginicus	Virginia Wild Rye	30
Spartina pectinata	Prairie Cord Grass	11
	TOTAL	**629**

PLUMBING DATA

DRAINAGE FIXTURE UNITS = 67
WATER FIXTURE UNITS = 29 GPM.

NOTE

1. SANITARY SEWER, WATERMAIN AND STORM SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN AND ADMINISTRATIVE CODE CHAPTERS COMM 81-87.
2. FIELD VERIFY LOCATION OF EXISTING UTILITIES. IF EXISTING LOCATIONS DIFFER FROM WHAT IS INDICATED ON THE PLANS, **CONTACT ENGINEER,** PRIOR TO CONTINUED WORK.
3. ALL SANITARY SEWER, STORM SEWER AND WATER SERVICES / MAINS SHALL BE PROVIDED WITH TRACER WIRE OR OTHER METHOD TO BE LOCATED.
4. THE CITY OF GREEN BAY DEPARTMENT OF PUBLIC WORKS MUST BE NOTIFIED (3) THREE WORKING DAYS BEFORE THE START OF ANY SANITARY OR STORM SEWER CONSTRUCTION WITHIN A PUBLIC RIGHT OF WAY OR EASEMENT. CONTACT MATT HECKENLAIBLE, (920) 448-3100.
5. DURING CONSTRUCTION, ALL EXCAVATIONS SHALL BE MONITORED FOR CONTAMINATION. IF PETROLEUM ODORS ARE NOTICED OR IF STAINED SOILS ARE VISIBLE, IMMEDIATELY NOTIFY THE OWNER'S ENVIRONMENTAL PROFESSIONAL. THE CONTRACTOR AND AN ENVIRONMENTAL PROFESSIONAL (EP) WILL MOBILIZE TO THE SITE. THE EP WILL GUIDE THE EXCAVATION OF IMPACTED MATERIAL. SOIL DEEMED IMPACTED WILL BE STOCKPILED ON SITE ON PLASTIC AND COVERED WITH PLASTIC PENDING PROPER OFF-SITE DISPOSAL.
6. CONTRACTOR TO ACQUIRE REQUIRED PERMITS PRIOR TO START OF CONSTRUCTION, TO INCLUDE STREET EXCAVATION, STREET CONSTRUCTION, CURB CUT, SIDEWALK BUILDING GRADE, ETC.

NORTH

0' 20' 40'
SCALE IN FEET

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

UTILITY PLAN

DATE 05/2016
FILE 5642002D
JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
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SHEET NO. C-3

BENCHMARK	BENCHMARK ESTABLISHED BY: ROBERT E. LEE & ASSOCIATES, INC. **FIELD VERIFY BENCHMARKS FOR ACCURACY.**	
NO.	DESCRIPTION	EL.
1	TOP NUT ON FIRE HYDRANT	119.88

CONSTRUCTION SEQUENCE

1. INSTALL INLET PROTECTION AS IDENTIFIED ON CITY INLETS ALONG MAIN STREET. (SPRING 2016)
2. INSTALL TRACKING PADS. (SPRING 2016)
3. INSTALL PERIMETER SILT FENCE (SPRING 2016)
4. BEGIN FOUNDATION FOOTING AND WALLS (SPRING 2016) WALLS TO BE DUG INTO EXISTING HARD SURFACE.
5. INSTALL SITE UTILITIES (SUMMER 2016) STORM SEWER DRAINAGE TO UNDERGROUND STORAGE. INSTALL INLET PROTECTION IN NEWLY CONSTRUCTED CATCH BASINS.
6. BACKFILL FOUNDATIONS (SUMMER 2016) TOPSOIL, SEED AND MULCH. GERMINATION IN FALL 2016
7. PAVE/CONCRETE (SUMMER/FALL 2016) PROJECT COMPLETION.

EROSION CONTROL

ALL EROSION CONTROL PRACTICES INDICATED ON THIS PLAN ARE APPROXIMATE LOCATIONS ONLY. THE ACTUAL SITE MAY REQUIRE MORE OR LESS EROSION CONTROL DEPENDING ON THE CURRENT CONDITION OF THE SITE.

1. SILT FENCE IS REQUIRED DOWNSLOPE OF ANY DISTURBED LAND THAT MAY CARRY SEDIMENTS OFF SITE.
2. A TRACKING PAD IS REQUIRED AT ANY INGRESS/EGRESS LOCATION, WHERE SEDIMENT MAY BE TRACKED OFF-SITE.
3. PROPER INLET PROTECTION SHALL BE USED DEPENDING ON THE INLET TYPE.
4. ALL NECESSARY SITE DEWATERING SHALL BE PERFORMED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061.

LEGEND

T/C 999.99	TOP OF CURB ELEVATION
F/L 888.88	FLOW LINE ELEVATION
S/W 666.66	TOP OF SIDEWALK ELEVATION
E/P 555.55	EDGE OF PAVEMENT ELEVATION
R/W 444.44	TOP OF RETAINING WALL ELEVATION
333.33	GROUND ELEVATION
	DRAINAGE SWALE
	DRAINAGE DIVIDE
	SILT FENCE
	BALE DITCH CHECK
	FLOW ARROW
	TRACKING PAD
	INLET PROTECTION

NORTH

0' 20' 40'

SCALE IN FEET

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT | CHECKED JGS | DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

GRADING AND EROSION CONTROL PLAN

DATE 05/2016 | FILE 5642002D | JOB NO. 5642002

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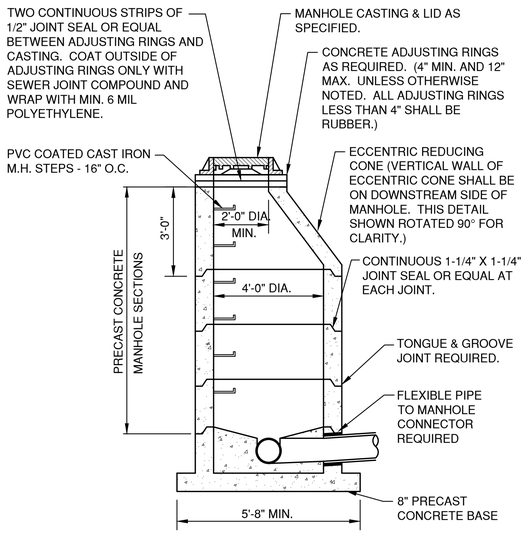
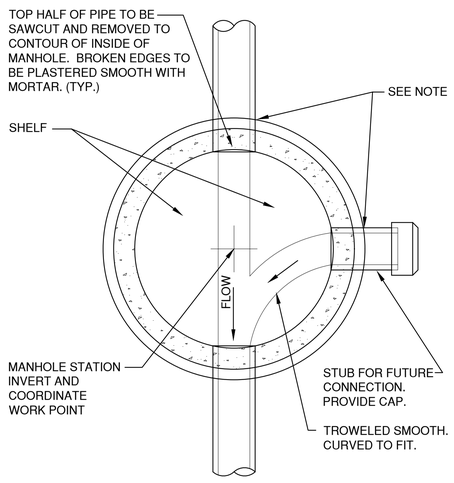
SHEET NO. C-4

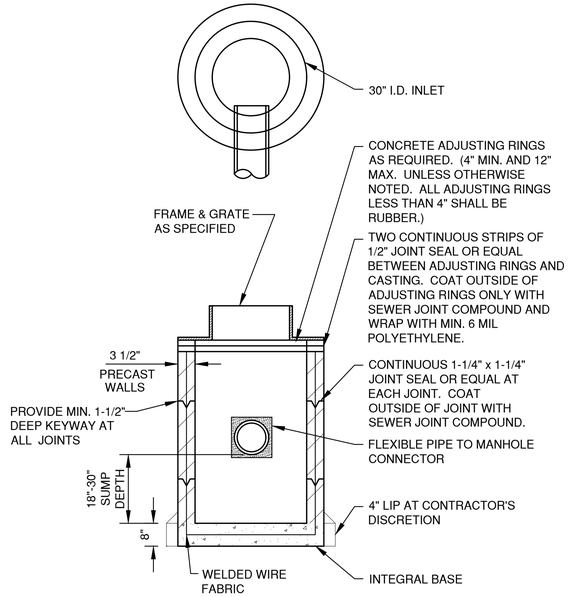


SANITARY AND STORM STANDARD MANHOLE 8"-24" (INCLUSIVE)



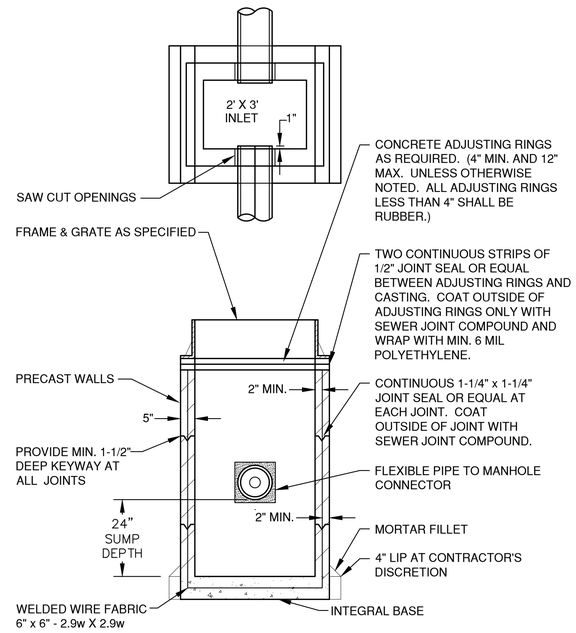
NOTE:
FOR PVC PIPE PROVIDE AN APPROVED FLEXIBLE JOINT.

MANHOLE BASE PLAN 8" - 60" (INCLUSIVE)



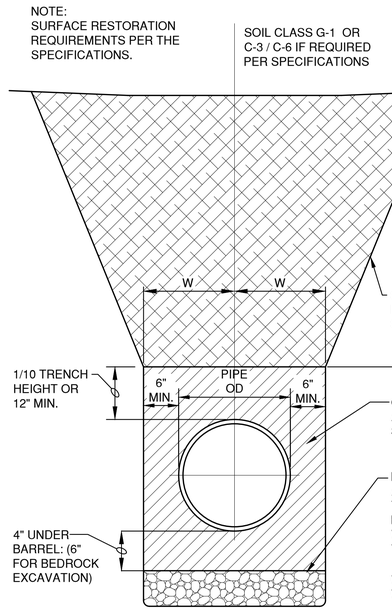
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199

TYPE 'A' STORM INLET

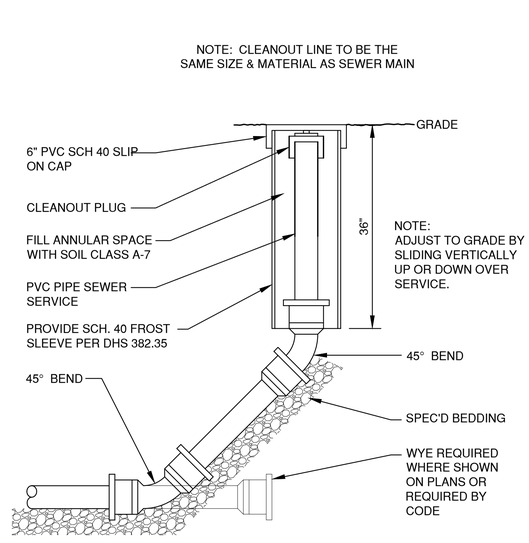


ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199

TYPE 'B' STORM INLET



HDPE /PVC SEWER & WATERMAIN & FORCEMAIN BEDDING & TRENCH SECTION



CLEAN-OUT DETAIL (NON-TRAVELED AREAS)

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

DRAWN BLT | CHECKED JGS | DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

MISCELLANEOUS DETAILS

DATE 05/2016 | FILE DETAILS | JOB NO. 5642002

Robert E. Lee & Associates, Inc.
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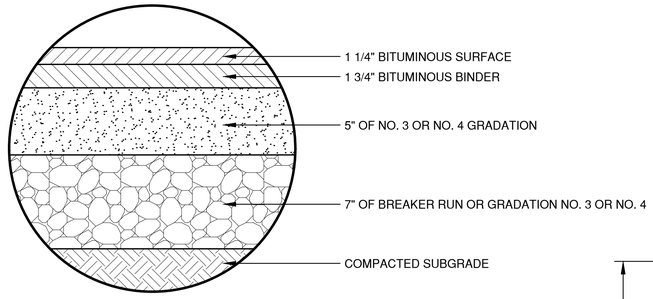
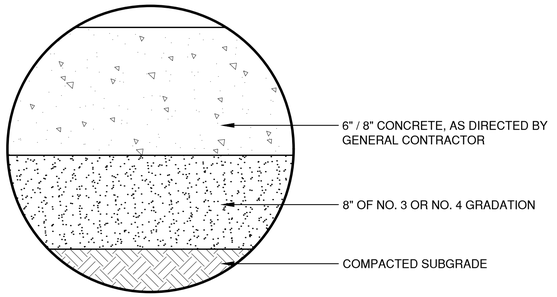
1250 CENTENNIAL CENTRE BOULEVARD
HOBART, WI 54155 PHONE:(920) 662-9641
INTERNET: www.releeinc.com FAX:(920) 662-9141

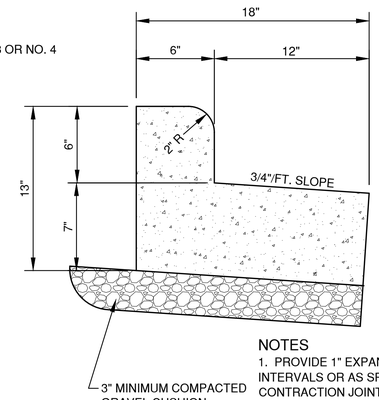
SHEET NO. C-5



ASPHALT PAVEMENT DETAIL



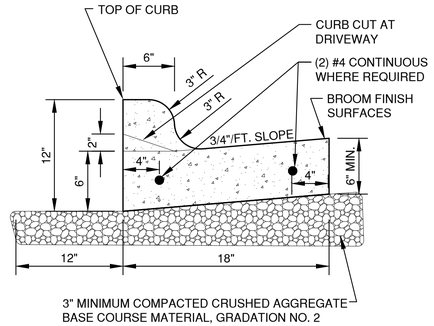
6" / 8" CONCRETE PAVEMENT DETAIL



NOTES
1. PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 30' OR AS DIRECTED.

2. AT REMOVAL AND REPLACEMENT AREAS AND AT TIES TO EXISTING CURB & GUTTER PROVIDE 2-#5 BARS, 18" LONG. DRILL AND GROUT INTO EXISTING CURB AND GUTTER 9 INCHES.

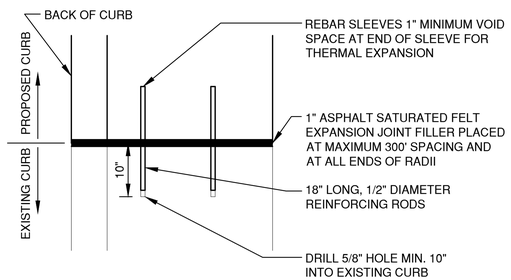
SHEDDING CURB DETAIL



NOTE:
PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS AND 3 FEET EACH SIDE OF INLET CASTINGS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 10' OR AS DIRECTED.

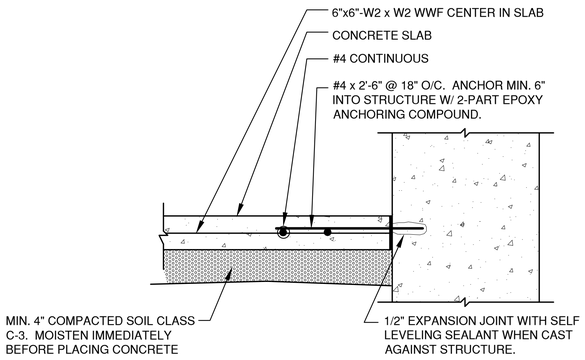
STANDARD CURB & GUTTER

NOTE:
PROVIDE CONTRACTION JOINTS AT MAXIMUM 20' SPACING
BY SAW CUTTING OR INSERTION OF DIVIDER PLATES

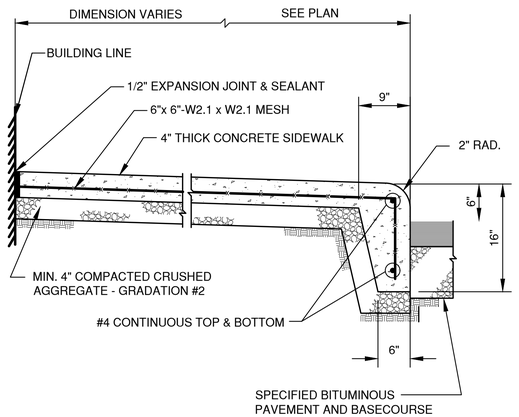


CURB TIE-IN DETAIL

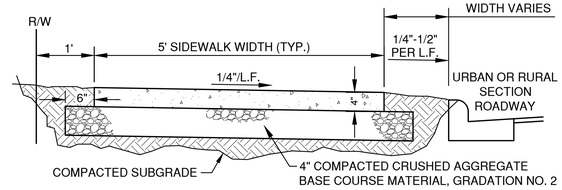
(PROPOSED TO EXISTING)



TYPICAL SIDEWALK ADJACENT TO STRUCTURE

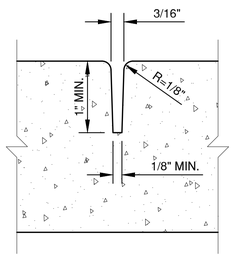


SIDEWALK WITH INTEGRAL CURB

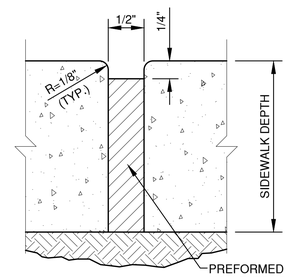


TYPICAL SECTION

NOTE:
REFER TO SPECIFICATIONS
FOR REINFORCEMENTS.



TOOLED CONTRACTION JOINT



EXPANSION JOINT

WALK WIDTH	CONTRACTION JOINT SPACING		EXPANSION JOINT SPACING
	TRANSVERSE	LONGITUDINAL	
4'	4'	NOT REQ'D	100' MAX.
5'	5'	NOT REQ'D.	100' MAX.
6'	6'	NOT REQ'D.	100' MAX.
8'	4'	4'	100' MAX.
10'	5'	5'	100' MAX.
12'	6'	6'	100' MAX.

SIDEWALK DETAIL

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

MISCELLANEOUS DETAILS

DATE 05/2016
FILE DETAILS
JOB NO. 5642002

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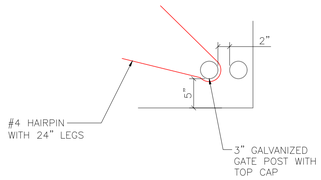
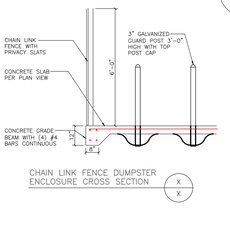
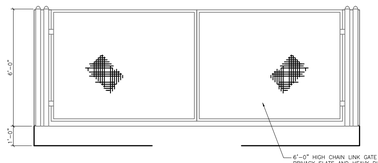
SHEET NO. C-6



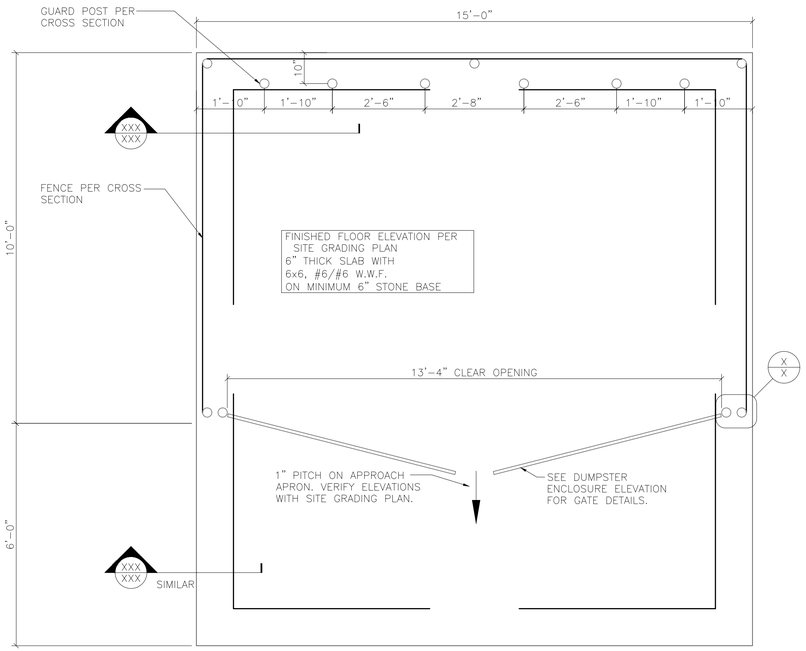
CHAIN LINK FENCE DUMPSTER ENCLOSURE GATE POST DETAIL (X/X)



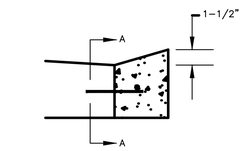
CHAIN LINK FENCE DUMPSTER ENCLOSURE CROSS SECTION (X/X)



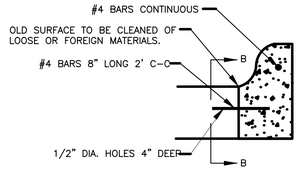
CHAIN LINK FENCE DUMPSTER ENCLOSURE ELEVATION (X/X)



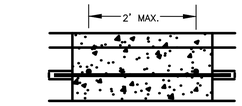
CHAIN LINK FENCE DUMPSTER ENCLOSURE PLAN VIEW (X/X)



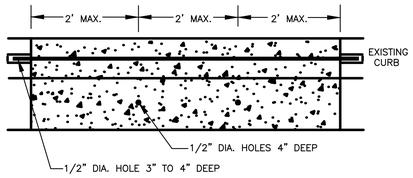
-AT DRIVEWAY OPENING AND CURB RAMPS-



NORMAL CROSS-SECTION

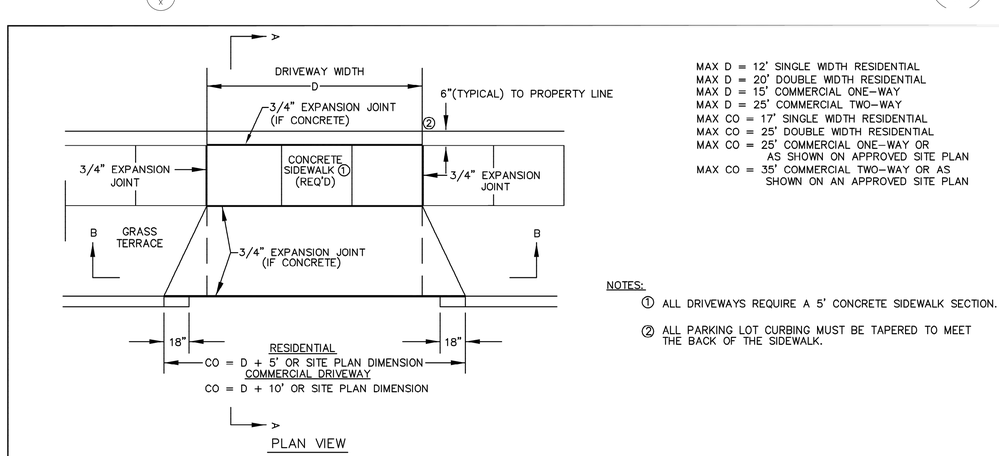


SECTION A-A



SECTION B-B

CITY OF GREEN BAY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	RECONSTRUCT CURB	CREATED: 1/1/04, 8/24/06; DETAIL DRAWING NO. 603-D-03

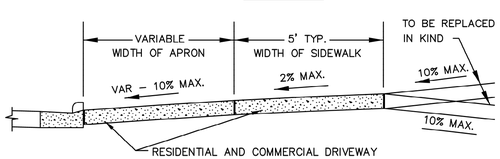


PLAN VIEW

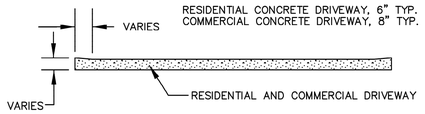
MAX D = 12' SINGLE WIDTH RESIDENTIAL
MAX D = 20' DOUBLE WIDTH RESIDENTIAL
MAX D = 15' COMMERCIAL ONE-WAY
MAX D = 25' COMMERCIAL TWO-WAY
MAX CO = 17' SINGLE WIDTH RESIDENTIAL
MAX CO = 25' DOUBLE WIDTH RESIDENTIAL
MAX CO = 25' COMMERCIAL ONE-WAY OR AS SHOWN ON APPROVED SITE PLAN
MAX CO = 35' COMMERCIAL TWO-WAY OR AS SHOWN ON AN APPROVED SITE PLAN

NOTES:

1. ALL DRIVEWAYS REQUIRE A 5' CONCRETE SIDEWALK SECTION.
2. ALL PARKING LOT CURBING MUST BE TAPERED TO MEET THE BACK OF THE SIDEWALK.



SECTION A-A

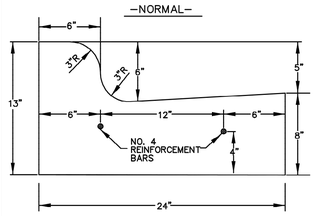


SECTION B-B

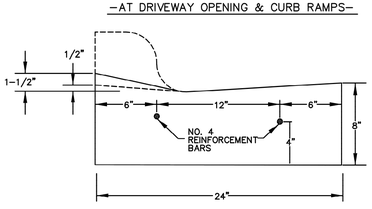
CITY OF GREEN BAY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	URBAN DRIVEWAY	CREATED: 1/1/04, REVISED: 2/4/08; DETAIL DRAWING NO. 602-D-09

FOR CITY STREETS ONLY

-NORMAL-



-AT DRIVEWAY OPENING & CURB RAMPS-

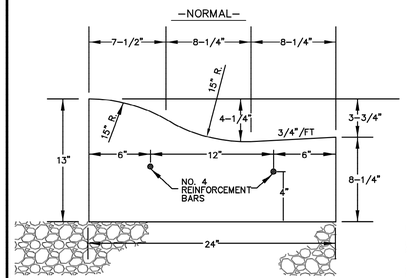


NOTES:

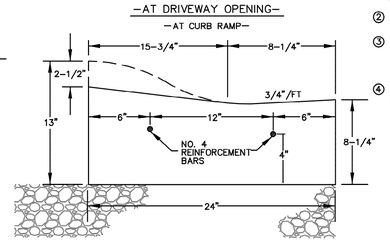
1. CONTRACTION JOINTS SHALL BE EVERY 15' MAXIMUM OR DESIGNATED BY ENGINEER IN FIELD.
2. 6"x6" EXPANSION JOINTS (3/4") SHALL BE PLACED AT CURB HEAD AT END OF RADII.
3. NO. 4 REINFORCEMENT BARS SHALL BE 20' LONG WITH A 3/4" EXPANSION TUBE REQUIRED ON ONE END AT EXPANSION JOINTS
4. NO. 4 REINFORCEMENT BARS SHALL BE OVERLAPPED A MINIMUM OF 1'.
5. 1-1/2" CURB HEIGHT APPLIES TO DRIVEWAY OPENINGS, 1/2" CURB HEIGHT APPLIES TO CURB RAMPS

STANDARD CURB AND GUTTER 24"

-NORMAL-



-AT DRIVEWAY OPENING-
-AT CURB RAMP-



NOTES:

1. CONTRACTION JOINTS SHALL BE EVERY 15' MAXIMUM OR DESIGNATED BY ENGINEER IN FIELD.
2. 4-1/4"x7-1/2" EXPANSION JOINTS (3/4") SHALL BE PLACED AT CURB HEAD AT END OF RADII.
3. NO. 4 REINFORCEMENT BARS SHALL BE 20' LONG WITH A 3/4" EXPANSION TUBE REQUIRED ON ONE END AT EXPANSION JOINTS
4. NO. 4 REINFORCEMENT BARS SHALL BE OVERLAPPED A MINIMUM OF 1'.

ROLLED CURB AND GUTTER, 24"

CITY OF GREEN BAY DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION	CURB AND GUTTER SECTIONS	CREATED: 11/09/04, REVISED: 3/15/07; DETAIL DRAWING NO. 603-D-01

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT | CHECKED JGS | DESIGNED BLT

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DATE 05/2016 | FILE DETAILS | JOB NO. 5642002

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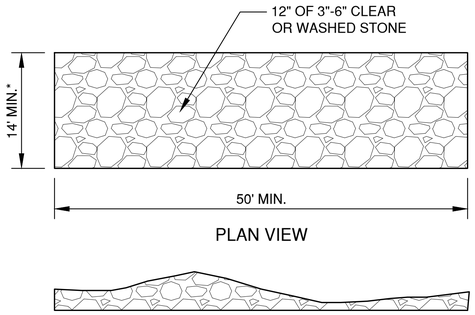


*14' MIN. OR FULL WIDTH OF THE EGRESS POINT.
REFERENCE WDNR TECHNICAL STANDARD 1057.

TRACKING PAD DETAIL

(IF APPLICABLE)

INLET PROTECTION NOTES:

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WDOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"X4".

INSTALLATION NOTES:
TYPE "B" & "C"

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

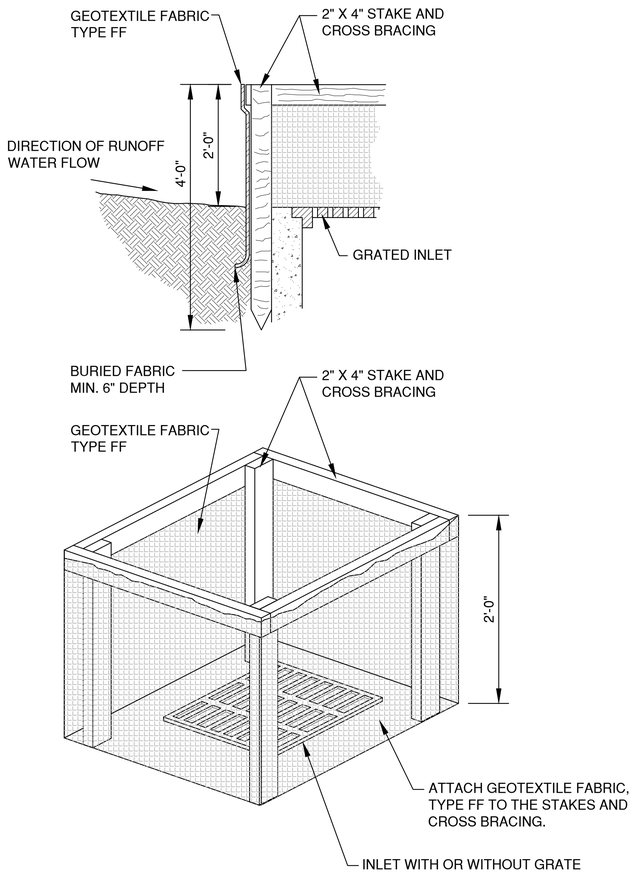
DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE "D"

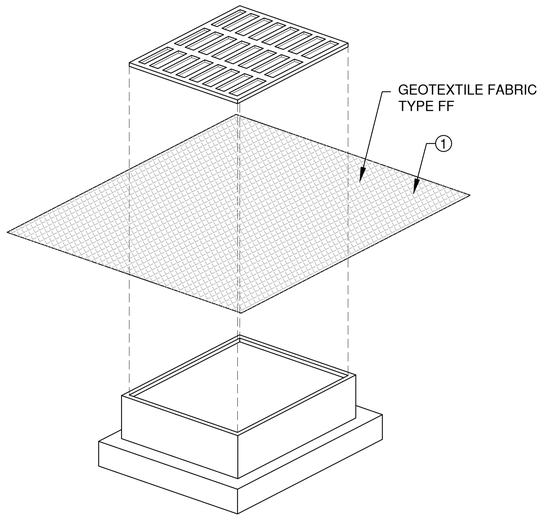
DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30" MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY, CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT THE MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

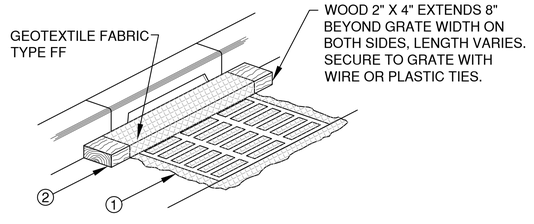


INLET PROTECTION, TYPE A

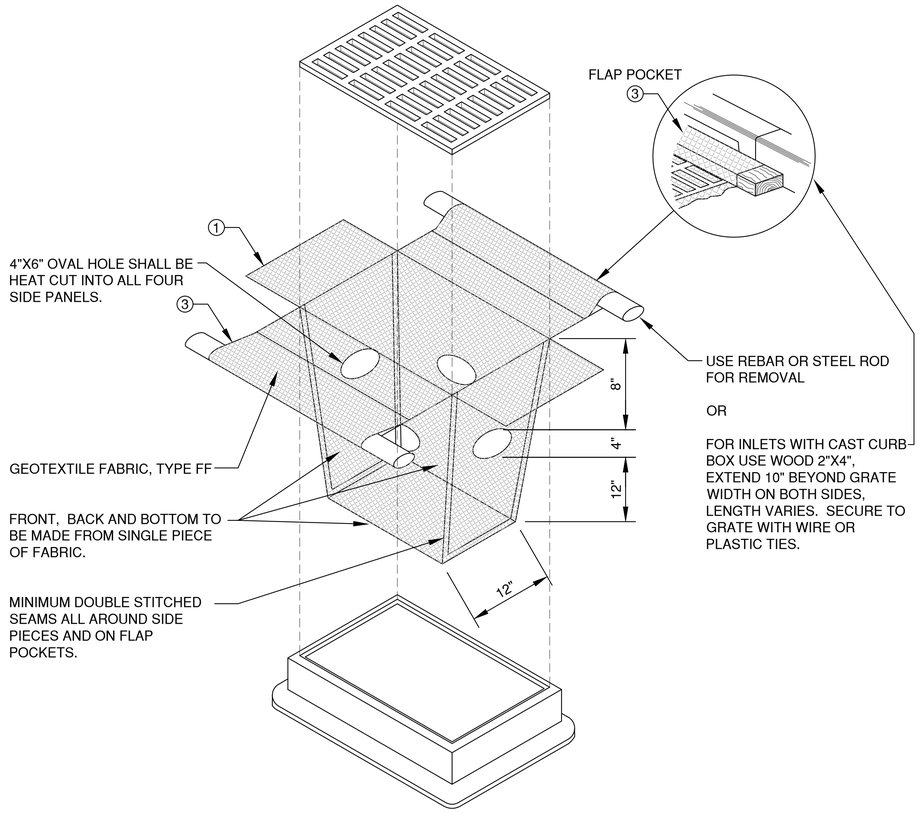


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C
(WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT CURB BOX AS PER NOTE "2")

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

NO.	DATE	APPROV.	REVISION

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

EROSION CONTROL
INLET PROTECTION AND
MISCELLANEOUS DETAILS

DATE 05/2016
FILE EROSION CONTROL
JOB NO. 5642002

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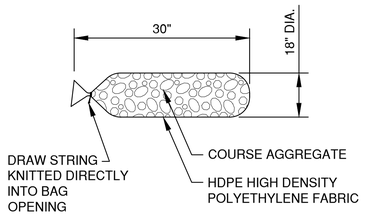
SHEET NO. C-8



FILTER BAG DETAIL

COURSE AGGREGATE INFORMATION

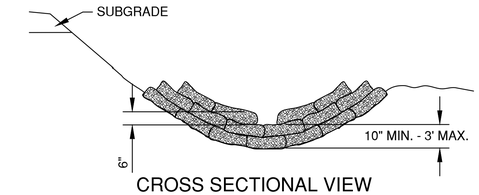
SIEVE SIZE	SIZE NO. AASHTO No. 67 (1)
2 INCH (50 mm)	-
1 1/2 INCH (37.5mm)	-
1 INCH (25.0 mm)	100
3/4 INCH (19.0mm)	90-100
3/8 INCH (9.5mm)	20-55
No. 4 (4.75mm)	0-10
No. 8 (2.36mm)	0-5

(1) SIZE No. ACCORDING TO AASHTO M 43

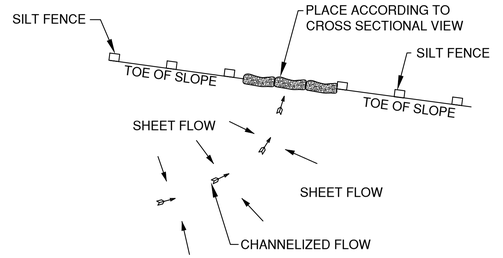
NOTES:

18" X 30" ROCK FILLED FILTER BAG SHALL BE COMPRISED OF THE FOLLOWING:
HDPE HIGH DENSITY POLYETHYLENE
HDPE HIGH DENSITY POLYETHYLENE DRAW STRING KNITTED DIRECTLY INTO BAG OPENING.
80% FABRIC CLOSURE WITH APPARENT OPENING SIZE NO LARGER THAN 1/8 " X 1/8 "
ROLLED SEAM USING A MINIMUM OF 480 DENIER POLYESTER SEWING YARN FOR STRENGTH AND DURABILITY.

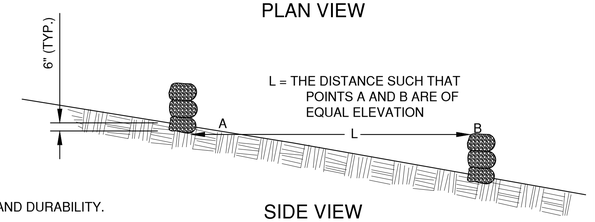
USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS



CROSS SECTIONAL VIEW



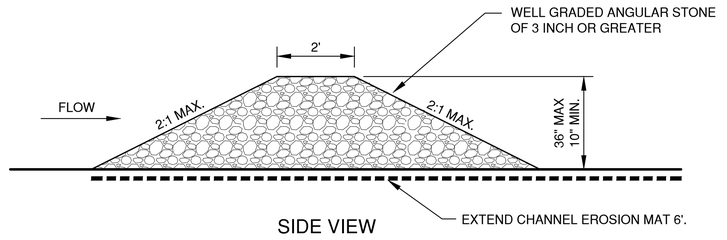
PLAN VIEW



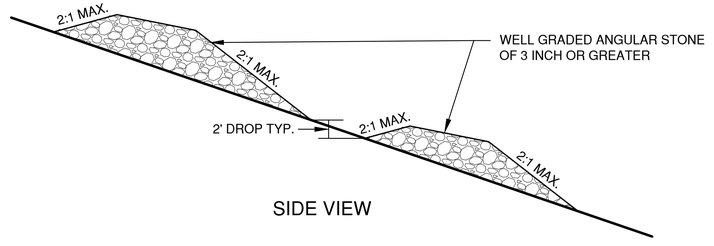
SIDE VIEW

DITCH CHECK DETAIL

ROCK FILLED EROSION CONTROL BAGS TYPE B



SIDE VIEW



SIDE VIEW

TEMPORARY DITCH CHECK USING STONE TYPE C

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
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BROWN COUNTY, WISCONSIN

EROSION CONTROL
DITCH CHECK DETAILS

DATE 05/2016
FILE EROSION CONTROL
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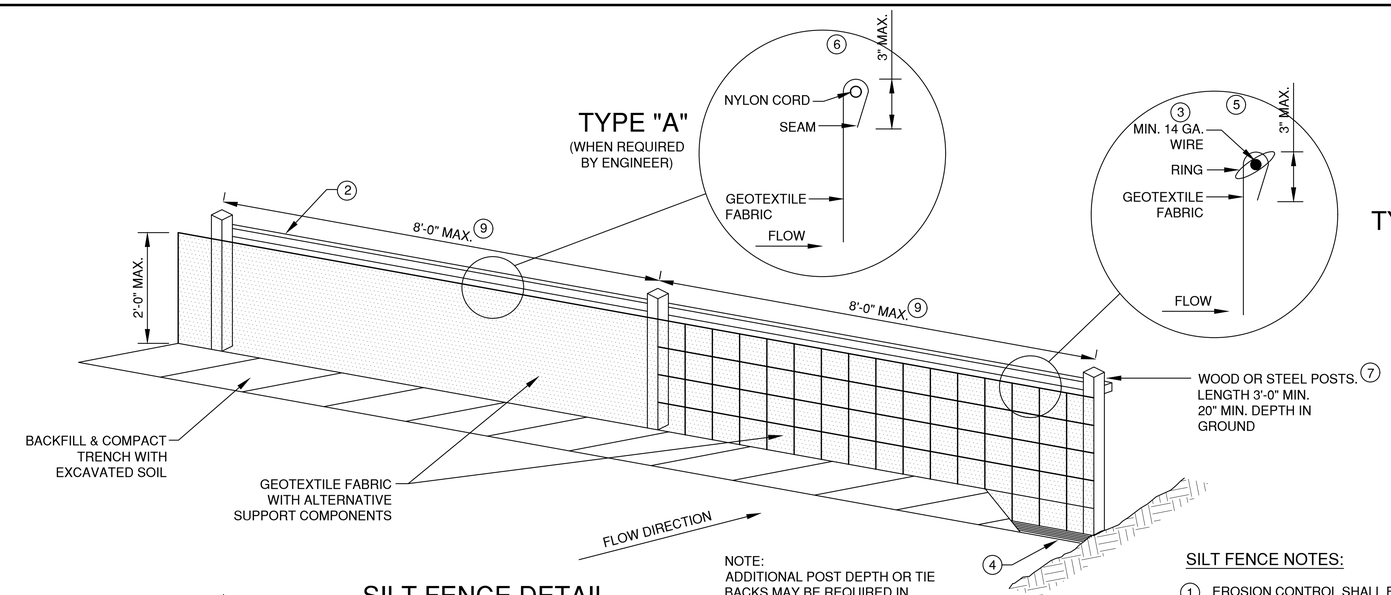
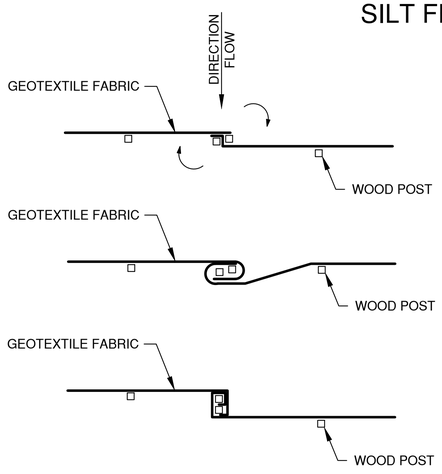
SHEET NO. C-9

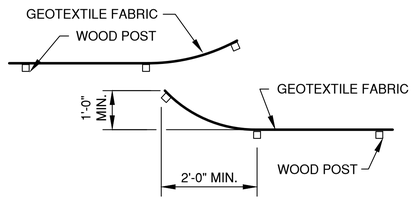


SILT FENCE DETAIL

NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

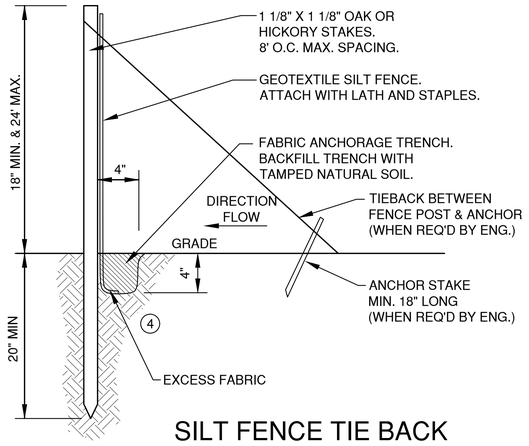


TWIST METHOD (8)



HOOK METHOD (8)

JOINING TWO LENGTHS OF SILT FENCE



SILT FENCE TIE BACK

SILT FENCE NOTES:

1. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD.
2. CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
3. MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
4. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
5. WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
6. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
7. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS./LIN. FT. (WITHOUT ANCHOR) FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
8. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL, IF POSSIBLE, BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS: A.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B:) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.
9. THE MAXIMUM SPACING OF POSTS FOR WOVEN FABRIC SILT FENCE SHALL BE 8 FEET AND FOR NON-WOVEN FABRIC, 3 FEET.

EROSION CONTROL SHEET FLOW NOTES:

1. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.
2. A MINIMUM OF 4 INCHES OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.
3. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
4. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH DAY. **FLUSHING SHALL NOT BE ALLOWED.**
5. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR THE APPLICATION OF STABILIZATION MEASURES MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
6. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING.
7. ALL TEMPORARY EROSION CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED WITH 70% VEGETATION AND A NOTICE OF TERMINATION HAS BEEN APPROVED BY THE DNR.
8. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH OR A TACKING AGENT MAY NEED TO BE UTILIZED TO PROTECT NEARBY RESIDENCES/WATER RESOURCES.
9. CONTRACTOR RESPONSIBLE FOR MAINTAINING ALL THE EROSION CONTROL MEASURES IN CONFORMANCE WITH THE WDNR CONSERVATION PRACTICE STANDARDS, LATEST EDITION.
10. UPON COMPLETION OF STORM INLET CONSTRUCTION, INSTALL STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITE AS SPECIFIED.
11. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM STREETS, PRIVATE DRIVES, OR PARKING AREAS BY MANUAL OR MECHANICAL SWEEPING A MINIMUM OF ONCE PER WEEK AND BEFORE ALL IMMINENT RAINS.
12. EROSION AND SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF RAINFALL OF 0.5 INCH OR MORE.

NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL
2	5-25-16	JGS	FINAL CITY SUBMITTAL

NO.	DATE	APPROV.	REVISION

DRAWN BLT
CHECKED JGS
DESIGNED BLT

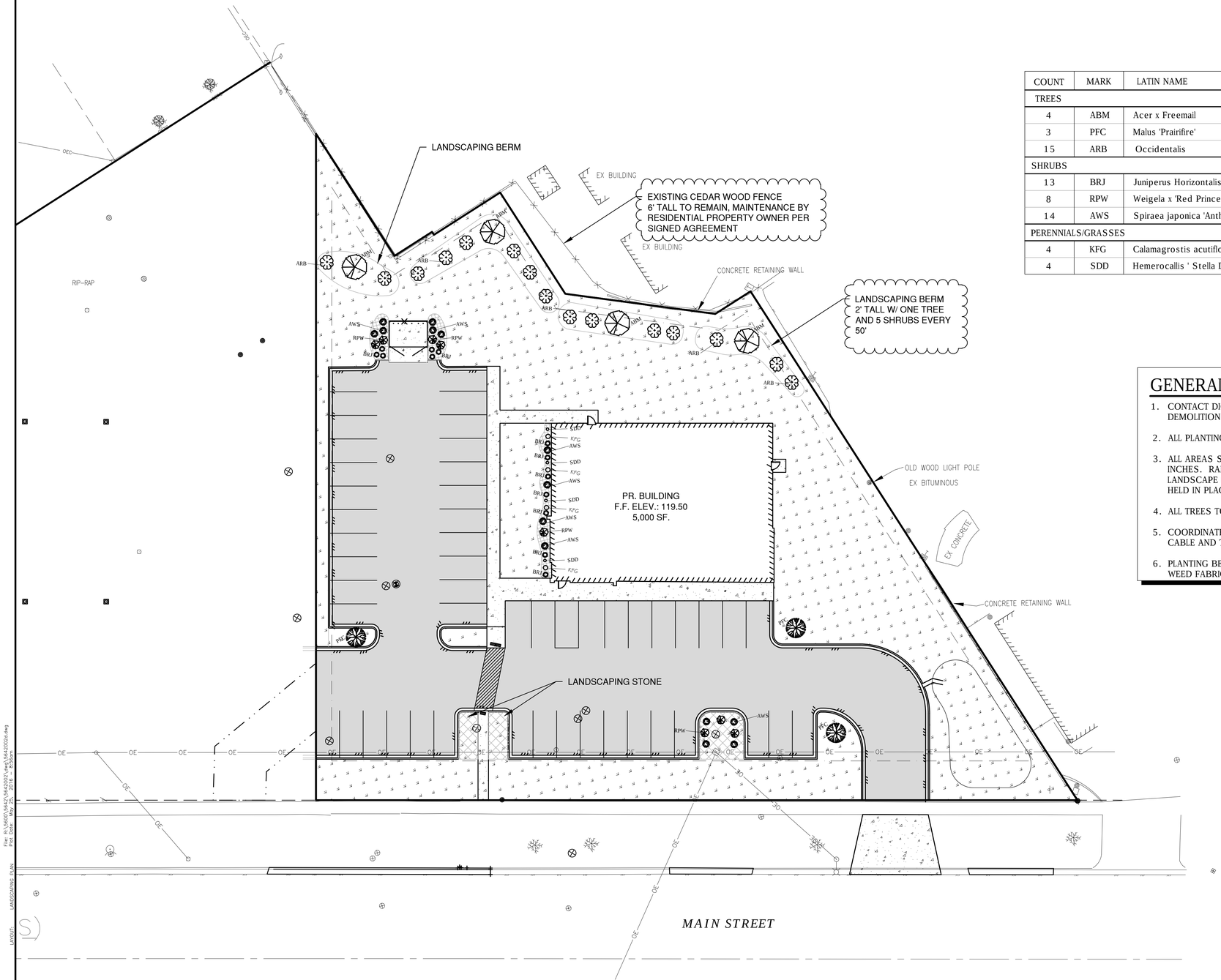
PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

EROSION CONTROL
SHEET FLOW DETAILS

DATE 05/2016
FILE EROSION CONTROL
JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD
HOBART, WI 54155 PHONE:(920) 662-9641
INTERNET: www.releeinc.com FAX:(920) 662-9141

SHEET NO. C-10



COUNT	MARK	LATIN NAME	COMMON NAME	SIZE	ROOT	MATURE SIZE
TREES						
4	ABM	Acer x Freemail	Autumn Blaze Maple	2" CAL	BB	2" CAL
3	PFC	Malus 'Prairifire'	Prariefire Crab Tree	2" CAL. 7'	BB	2" CAL. 7'
15	ARB	Occidentalis	Technito Arborvitae	4-5' Wide		8-10'
SHRUBS						
13	BRJ	Juniperus Horizontalis 'Wiltonii'	Blue Rug Juniper	5 GAL.	POT	1'-2'
8	RPW	Weigela x 'Red Prince'	Red Prince Weigela	2'-3'	POT	4'-5'
14	AWS	Spiraea japonica 'Anthony Waterer'	Anthony Waterer Spirea	2'-3'	POT	3'-5'
PERENNIALS/GRASSES						
4	KFG	Calamagrostis acutiflora 'Karl Foerster'	Karl Foetster Reed Grass	#2	POT	4'-5'
4	SDD	Hemerocallis ' Stella D'Oro'	Stella D'Oro Daylily	#1	POT	2'

GENERAL NOTES

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION / CONSTRUCTION.
2. ALL PLANTINGS SHALL MEET THE NURSERYMEN'S ASSOCIATION STANDARDS
3. ALL AREAS SHOWN AS GREEN SPACE TO BE TOPSOILED TO A DEPTH OF 6 INCHES. RAKE FREE OF STONES AND CLUMPS. ALL AREAS NOT SHOWN WITH LANDSCAPE BEDS TO BE SEEDED AND MULCHED FOR LAWN. MULCH SHALL BE HELD IN PLACE BY CRIMPING OR BY USE OF A TACKIFIER.
4. ALL TREES TO BE STAKED WITH A MINIMUM OF 3 STAKES.
5. COORDINATE LANDSCAPE WORK WITH ALL TRADES (EXAMPLE: GAS, ELECTRIC, CABLE AND TELEPHONE).
6. PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH WITH WEED FABRIC BELOW AND EDGING WHERE NEEDED.

NORTH

0' 20' 40'

SCALE IN FEET

File: R:\5600\5642\5642002\Arch\5642002d.dwg
Plot Date: May 25, 2016 - 8:36am
Layout: LANDSCAPING PLAN

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT
CHECKED JGS
DESIGNED BLT

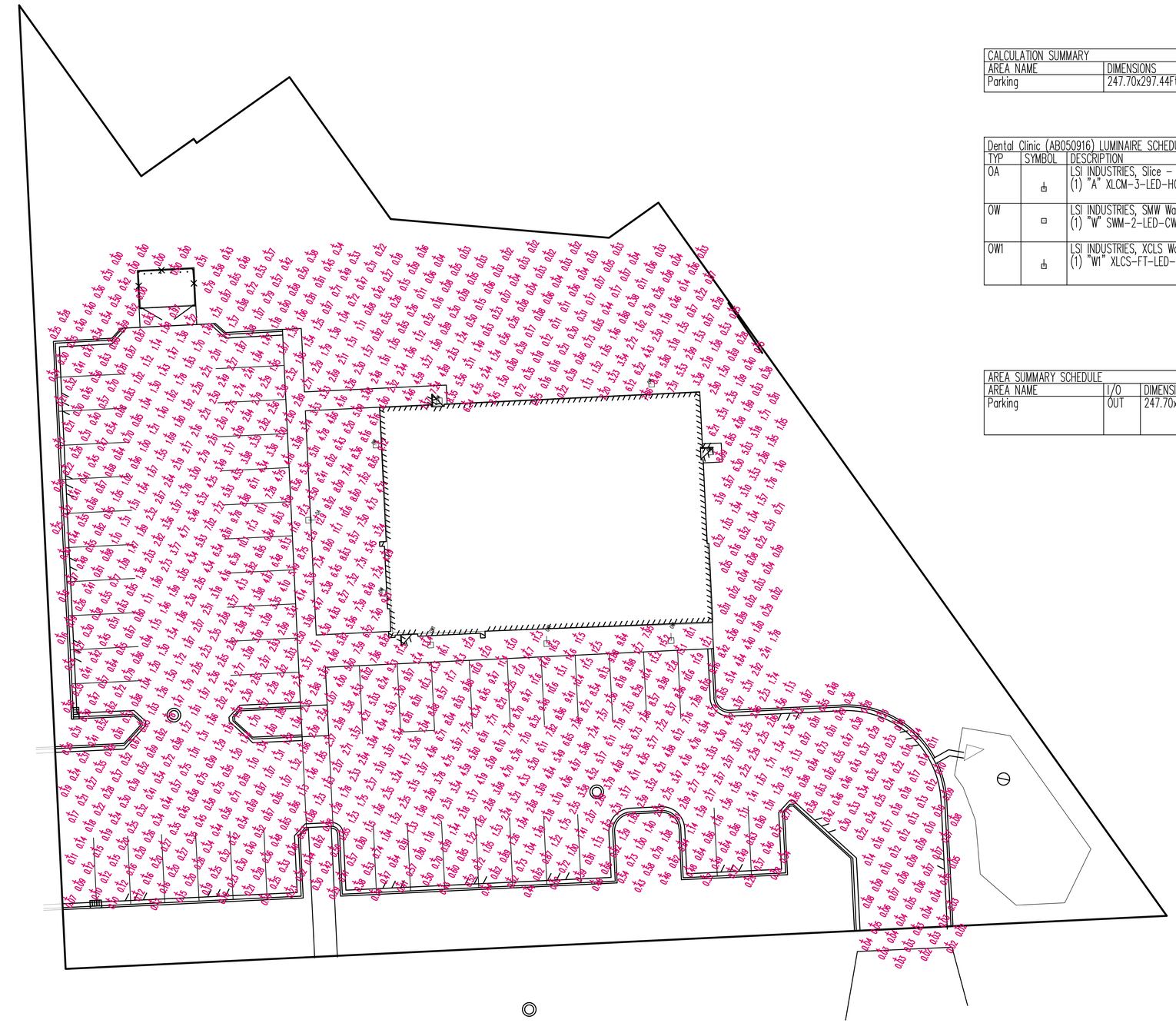
PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

LANDSCAPING PLAN

DATE 05/2016
FILE 5642002D
JOB NO. 5642002

Robert E. Lee & Associates, Inc.
ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES
1250 CENTENNIAL CENTRE BOULEVARD HOBART, WI 54155
920-662-9641 www.releeinc.com
Celebrating 60 Years of Excellence

SHEET NO. L-0



CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
Parking	247.70x297.44Ft	Grade / H-H	1161	5.00	<+>	2.61	16.50	0.00	N/A	N/A

Dental Clinic (AB050916) LUMINAIRE SCHEDULE							
TYP	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING/BALLAST	LLF	QTY
OA		LSI INDUSTRIES, Slice - Single (1) "A" XLCM-3-LED-HO-NW	(1)	27916	25' SSS 3' Conc. Pour	1.00	1
OW		LSI INDUSTRIES, SMW Wall (1) "W" SWM-2-LED-CW-UE	(1)	4145	LSI	1.00	5
OW1		LSI INDUSTRIES, XCLS Wall (1) "W1" XLCS-FT-LED-HO-NW	(1)	15570	LSI	1.00	3

AREA SUMMARY SCHEDULE					
AREA NAME	I/O	DIMENSIONS	LUMS / <ASMS>	WATTS / SQ FT	QTY
Parking	OUT	247.70x297.44Ft	<OA > (1) <OW > (5) <OW1 > (3)	0.02	1

LIGHTING PLAN BY:

Dave Zochert
President
Visual Impact Lighting, LLC
920-437-2069
Green Bay - Milwaukee - Madison

NO.	DATE	APPROV.	REVISION	NO.	DATE	APPROV.	REVISION
1	5-10-16	JGS	CITY SUBMITTAL				
2	5-25-16	JGS	FINAL CITY SUBMITTAL				

DRAWN BLT
CHECKED JGS
DESIGNED BLT

PROPOSED FAMILIA DENTAL FOR
GB REAL ESTATE INVESTMENTS, LLC.
CITY OF GREEN BAY
BROWN COUNTY, WISCONSIN

LIGHTING PLAN

DATE 05/2016
FILE 5642002D
JOB NO. 5642002

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920-662-9641 www.releeinc.com
Celebrating 60 Years of Excellence

SHEET NO. L-1

Appendix B

Disposal Documentation

Advanced Disposal

ADVANCED DISPOSAL
HICKORY MEADOWS LANDFILL, LLC - B5
W3105 SCHNEIDER RD.
HILBERT WI 54129

Pay By Phone: 1-877-720-1583
Phone PIN: 0100007730000

Advanced Disposal is a company bringing fresh ideas and solutions to a clean environment. How can we further help your business or home become greener and cleaner? Visit us at www.AdvancedDisposal.com.

Should you have questions about charges, please see the back of this invoice, call your service representative or go to www.AdvancedDisposal.com.

RETURN SERVICE REQUESTED

000047 000000004

RICE MANAGEMENT INC
1726 N BALLARD RD
APPLETON WI 54911-2444

2

Account Information

Account Number	B5000773
Site Number	0000
Invoice Date	December 31, 2015
Invoice Number	B50000012170

Account Summary

Previous Balance	$18,746.73
Payments/Adjustments	$0.00
Current Invoice Amount	$281.20

Amount Due $19,027.93
Due Date Upon Receipt

Invoice Breakdown

Current	$281.20
30 days - past due	$273.01
60 days - past due	$273.01
90 days - past due	$18,200.71

It's easy being Green..sign up for ebill and auto pay at http://www.AdvancedDisposal.com/billpay

Contact Us

(920) 853-8553
HickoryMeadowsLF@AdvancedDisposal.com

YOUR ACCOUNT HAS BECOME SEVERELY PAST DUE.

B5160104.l01.txt-93-000000004

Previous Balance	**$18,746.73**
Payments and Adjustments	**$0.00**

Date	Description	Reference	Qty	Unit Price	Amount
12/31/15	Service Charge	IN001975	1.00	281.20	281.20

Current Charges	**$281.20**
Amount Due	**$19,027.93**

How to Pay Your Bill

Online Bill Pay

Great for regular payments

Visit **www.advanceddisposal.com/billpay** to enroll in online bill pay methods.

With the Advanced Disposal online bill payment system, you are able to:

- Make a one-time payment
- Setup your account for automatic recurring payments

If you would like assistance, please contact us at **1-800-355-2108** and we will be happy to assist you in getting set up.

Pay by Mail

Best for sending a regular check

Please mail your check made payable to Advanced Disposal to address listed below.

Please do not send correspondence to this address.

Please assist us by **including the remittance portion** (the perforated bottom section of your invoice) along with your check or money order to ensure your payment is posted quickly and accurately.

Pay by Phone

Good for a one time payment

Call **1-877-720-1583** to make your payment by phone.

To ensure fastest service, please have your Phone PIN ready, which can be found at the top of your invoice.

We accept MasterCard, Visa, American Express and Discover. An automated voice service will process your payment. This option is ideal for making single payments.

Advanced Disposal

DISPOSAL SERVICE AGREEMENT

Customer: Rice Management, Inc. c/o Waupaca Elevator, Inc.
Address: 1726 N. Ballard Road
Acct. No.:
City, State, Zip: Appleton, WI 54911
Effective Date: 4-23-2015
Phone: 920-991-9082
Operator: Advanced Disposal Hickory Meadows Landfill LI

This Disposal Agreement is entered into by and between Operator and Customer, each as defined above, as of the date indicated in the space provided above (the "Effective Date"). For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Operator and Customer agree to the Terms and Conditions of this Disposal Agreement as set forth below as set forth below and as set forth on Exhibit A attached hereto and incorporated herein by this reference. All capitalized terms used herein not otherwise defined shall have the meaning assigned to them in Exhibit A hereto.

TERMS AND CONDITIONS

Disposal. During the term of this Agreement, Customer shall deliver only Acceptable Waste to the Disposal Site, as defined above, during Operator's normal operating hours, subject to the availability of airspace or any periodic quantity limitations imposed by applicable law, regulation, permit or otherwise. Operator agrees to accept at the Disposal Site, during normal operating hours, all Acceptable Waste delivered by Customer, subject to the terms and conditions set forth in this Agreement, provided however that the Disposal Site may, in the discretion of Operator, be closed on the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day or any other federal or state holiday selected by Operator. Notwithstanding anything to the contrary herein, Operator shall have the right, in its sole discretion, to close the Disposal Site, in whole or in part, either temporarily or permanently, at any time for any reason and the delivery of Acceptable Waste shall be suspended or adjusted accordingly. Upon any such permanent closure, Operator shall have the right to terminate this Agreement. No Unacceptable Waste shall be delivered to the Disposal Site by Customer. Customer shall be responsible at its sole cost and expense for any and all labeling, placarding, marking, manifest or other such documentation required by law, and shall provide to Operator promptly upon request with a representative sample of the solid waste intended to be disposed of hereunder, along with a detailed written physical and chemical description or analysis ("Waste Characterization Data Sheet" or "WCDS") of such solid waste, including a listing of unique chemical characteristics and safety procedures, if such exists, that would be of material significance to the handling of such solid waste. Customer shall promptly furnish Operator with any information regarding known, suspected, or planned changes in composition of such solid waste, and Customer shall promptly update the WCDS. Customer represents and warrants that all solid waste specified in a WCDS and delivered to Operator shall conform to the description set forth in the WCDS.

Right to Refuse Unacceptable or Suspicious Waste; Removal. Operator shall not be required to accept, and reserves the right to reject or revoke acceptance of, any waste brought to the Disposal Site that Operator, in its sole discretion, considers to be an Unacceptable Waste or Suspicious Waste. Operator shall have the right to inspect any load to confirm that it conforms to the WCDS or otherwise constitutes Acceptable Waste. The parties agree however, that the failure of Operator to perform any such inspections shall in no way relieve Customer of its obligations to deliver only Acceptable Waste. Operator shall require Customer to remove waste or materials Customer has delivered to the Disposal Site which are subsequently determined or suspected by Operator to be Unacceptable Waste or is believed to be Suspicious Waste and Operator decides to reject such Suspicious Waste. If such waste or materials are not removed from the Disposal Site by Customer immediately upon notice by Operator that such waste or materials are Unacceptable Waste or Suspicious Waste, Operator shall arrange for lawful disposal of such waste at the sole cost and expense of Customer which Customer agrees to promptly pay upon receipt of invoice. Customer shall indemnify Operator for any and all costs or damages resulting from delivery of Unacceptable Waste or Suspicious Waste to the Disposal Site and shall pay Operator its reasonable expenses and charges for handling, loading, preparing, transporting, storing and caring for any such Unacceptable Waste or Suspicious Waste disposed of by Operator, including without limitation all costs and expenses that result from or arise in connection with reloading, removal, decontamination, remediation, testing and returning of all Unacceptable Waste or Suspicious Waste and any other material contaminated therewith, from any landfill utilized by Operator, the Customer's property or Operator's (or its contractor's) vehicles and equipment. Operator may, at any time, revoke its acceptance of any waste or materials discovered to be Unacceptable Waste.

Ownership. Operator is vested with title to all Acceptable Waste accepted by Operator at the Disposal Site, provided that that Operator shall not accept title to waste or materials that is Unacceptable Waste regardless of whether the Unacceptable Waste is unloaded. Title to Unacceptable Waste shall at all times remain vested in Customer whether or not unloaded. Title to Acceptable Waste, only, shall transfer to Operator at the time it is fully unloaded at the working face of the Disposal Site and Customer's vehicle

has departed the Disposal Site. Until such time as title has transferred to Operator title to Acceptable Waste and any other waste materials shall be in, and all risks and responsibilities therefore shall be borne by, Customer. Any revenue or other value received by Operator as a result of reclamation, recycling or resource recovery shall be solely for the account of Operator.

Compliance with Applicable Laws. Operator shall comply with all applicable federal, state, and local statutes and ordinances regulating the operation of the Disposal Site. Customer shall comply with all applicable federal, state, and local statutes and ordinances with respect to the collection, transportation and delivery of solid waste, and with all other rules, regulations, orders and amendments thereto imposed by all federal and state regulatory agencies having jurisdiction over Customer and the business of Customer. Customer shall also comply with work and safety rules which have been promulgated and made available by Operator to govern operations at the Disposal Site. Operator may implement and enforce reasonable rules and regulations concerning the Disposal Site, for the safe, legal and efficient operation of the Disposal Site at any time and from time-to-time. Customer shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with its activities at the Disposal Site; and shall take all necessary safety precautions and provide all necessary protections to prevent damage, injury or loss to people and property while at the Disposal Site. In the event Customer's vehicle becomes incapacitated or unable to move while at the Disposal Site, Operator may, but is not obligated to, provide assistance in moving or unloading the vehicle. Operator shall in no event be responsible for or have any liability for any damage or injury in connection with providing any such assistance whether or not such damage is the fault of Operator or any of its agents or employees. Operator may charge Customer a reasonable fee for providing such assistance which Customer agrees to pay.

Disposal Rates. The initial rates to be charged for receiving and landfilling Acceptable Waste delivered to the Disposal Site shall be as indicated on Exhibit A attached hereto as (the "Disposal Rates"). Customer understands and agrees Operator may increase the Disposal Rates at any time, without prior notice or consent, to adjust for cost increases or to reflect increases in Operator's operational costs, including without limitation, disposal, fuel, labor or insurance costs, or to achieve, among other things, an operating margin acceptable to Operator and its affiliates. Customer agrees Operator may impose and Customer must pay any environmental and fuel fees, and any other fees and assessments such as maintenance or administrative fees, included on Customer's invoice, and that Operator may increase or decrease these fees or assessments, and the Disposal Rates, at any time and for any reason by showing the amount on Customer's invoice. Customer understands and agrees that increases in the Disposal Rates referenced above, and increases in the environmental and fuel fees, and any other fees and assessments, such as maintenance or administrative fees, may be made at any time and for any reason, including to help recover a portion of overall costs incurred by Operator or its affiliated entities as may be necessary to achieve an operating margin acceptable to Operator and its affiliates. The Disposal Rates do not include Fees and Taxes. Customer shall pay all Fees and Taxes existing as of the date hereof plus any new Fees and Taxes imposed after the date hereof, including without limitation all federal, state, local, or other taxes, assessments, fees, host charges, or similar charges directly or indirectly related to the transportation, collection, or disposal of solid waste which are imposed on Operator by law, ordinance, or regulation and/or agreement with a governmental body, whether imposed retroactively or prospectively. The Disposal Rates may also be increased at any time, without prior notice or consent, by Operator to reflect any increase in operational costs, to reflect any expenses incurred by the Disposal Site as a result of a Change In Law, whether imposed retroactively or prospectively,. Operator may increase Disposal Rates, fees, and assessments for reasons other than those set forth above with the consent of the Customer. Such consent may be evidenced verbally, in or by the actions and practices of the parties, or by payment of the invoice service rates, fees, and assessments. Notwithstanding anything else to the contrary, if the Customer does not object, in writing, within 30 days of the sending an invoice, the Customer shall have conclusively agreed that such invoice is correct in all respects.

Payment. Customer agrees to make payment in full within fifteen (15) days after receipt of Operator's invoice. If Customer fails to make payment within such fifteen day time period, Operator shall have the right, in its sole discretion, to suspend services contemplated hereunder or to terminate this Agreement. Operator and Customer agree that Operator may impose, and Customer will pay, monthly interest on all past due (i.e., over 30 days from invoice date) service related charges, (including the Disposal Rates, and other fees and charges). Operator may assess monthly interest at an interest rate equal to 18% APR, or a minimum of $5.95, unless specifically prohibited by applicable law, in which case interest shall be assessed at the highest rate allowed by applicable law. Any interest charged or received in excess of the maximum amount permitted by applicable law shall be conclusively presumed to be the result of an accident and bona fide error, and shall, to the extent received by Operator, at the option of Operator, either be returned to the Customer or applied to reduce the principal amount owed to Operator. All payments under this Agreement shall be applied first to all interest then owed and then to the balance owed under this Agreement, starting with the oldest balance then outstanding. If any payment is not made when due, in addition to all other remedies provided for hereunder or at law or equity, Operator may suspend services until all arrearages are paid. Customer agrees to pay all of Operator's costs for collecting amounts due hereunder, including without limitation, court costs and attorneys fees, collection fees and other costs (including litigation related costs, costs associated with the engagement of any collection agency, and expert witness fees). At any time after Operator becomes concerned about Customer's creditworthiness or after Customer has made any late payment, Operator may request, and if requested Customer shall pay, a deposit in an amount equal to one month's charges under this Agreement. Changes in the Disposal Rates and all other fees, rates, charges and surcharges, may be agreed to orally or in writing by the parties. Consent to oral changes shall be evidenced by the actions and practices of the parties.

Term; Termination. THE TERM OF THIS AGREEMENT SHALL BE ○ UNTIL FINAL COMPLETION OF THE PROJECT IDENTIFIED ON EXHIBIT A; OR ◉ FOR A PERIOD OF 24 MONTHS FROM THE EFFECTIVE DATE. CUSTOMER GRANTS CONTRACTOR THE EXCLUSIVE RIGHT OF DISPOSAL OF CUSTOMER'S WASTE MATERIAL DURING THE TERM AND FOR ANY RENEWALS. IF THE TERM IS DEFINED ABOVE AS A PERIOD OF MONTHS, THEN, EXCEPT WHERE PROHIBITED BY LAW, THIS AGREEMENT SHALL AUTOMATICALLY RENEW FOR SUCCESSIVE LIKE MONTH TERMS UNLESS EITHER PARTY GIVES WRITTEN NOTICE OF TERMINATION AT LEAST 60 DAYS BUT NOT MORE THAN 120 DAYS PRIOR TO THE TERMINATION OF THE THEN CURRENT TERM. TO BE EFFECTIVE TERMINATION NOTICE MUST BE RECEIVED IN WRITING VIA CERTIFIED MAIL NO LATER THAN February 22, 2017 **AND EVERY** 24 **MONTHS THEREAFTER FOR EACH RESPECTIVE LIKE RENEWAL TERM. NO ADDITIONAL CHARGES WILL APPLY SOLELY AS A CONSEQUENCE OF ANY RENEWAL, PROVIDED HOWEVER THAT CHARGES ARE SUBJECT TO ADJUSTMENT DURING ANY RENEWAL TERM PURSUANT TO THE TERMS OF THIS AGREEMENT. THE NOTICE OF TERMINATION SHALL BE GIVEN DIRECTLY BY THE CUSTOMER OR ADVANCED DISPOSAL TO THE OTHER, AND NOT BY OR THROUGH ANY THIRD PERSON OR ENTITY, INCLUDING (WITHOUT LIMITATION) A COMPETITOR OF ADVANCED DISPOSAL. CUSTOMER'S REPRESENTATIONS, WARRANTIES AND INDEMNIFICATIONS SHALL SURVIVE ANY TERMINATION OF THIS AGREEMENT.** Either party may immediately terminate this Agreement: (a) in the event of the breach of or default under any term or provision of the Agreement by the other party and the defaulting party has not cured such default within ten (10) days after receipt of written notice of the default from the non-defaulting party, or (b) if either party becomes insolvent, the subject of an order for relief in bankruptcy, receivership, reorganization dissolution, or similar law, or makes an assignment of the benefit of its creditors. Operator may terminate this Agreement with or without cause upon thirty (30) days prior written notice to Customer. Notwithstanding anything to the contrary herein, except in strict accordance hereto, this Agreement grants no rights to dispose of Acceptable Waste or any other solid waste material. Operator may immediately terminate Customer's access to the Disposal Site in the event of Customer's breach of this Agreement, Operator's operating rules and safety policies, or applicable law. Upon any termination of this Agreement, all amounts owing to Operator shall be immediately due and payable.

Insurance. Customer shall procure and maintain during the Term of this Agreement, at a minimum, the following insurance coverage: (a) Comprehensive general liability insurance, including broad form liability coverage, with a limit of not less than the greater of (i) $1,000,000 per occurrence and $2,000,000 general aggregate; (b) Vehicle liability insurance, including coverage for owned, now-owned and hired vehicles, with a combined single limit of not less than the greater of (i) $1,000,000 and containing the broad form pollution endorsement; (c) Worker's compensation insurance in the amount of state and federal statutory requirements; (d) Employers liability insurance with a limit of not less than $1,000,000; and (e) Pollution liability coverage with a limit of not less than $5,000,000 including non-owned disposal site (NODS) coverage. Customer shall cause Operator to be named as an additional insured for completed and ongoing operations on the Commercial General Liability Policy, Pollution Liability Policy and the Automobile Policy. All insurance contracts to be procured and maintained by Operator pursuant to this Agreement shall be written with a carrier whose A.M. Best rating is not less than A X and shall provide that such contracts shall not be cancelled or materially altered until thirty (30) days after Operator receives notice thereof and shall be primary and non-contributory in favor of Operator. Prior to the Effective Date, Customer shall provide Operator with certificates of insurance evidencing the same. Customer shall require all of its subcontractors and agents to carry insurance coverage that satisfies the coverage, minimum requirements and other conditions set forth in this paragraph. Customer and Customer's subcontractors and agents shall require its respective insurers to waive any and all rights of recovery or subrogation as to Operator and its affiliates. The provisions of this paragraph shall not be construed as waiving, restricting or limiting the liability of Customer as to any obligations imposed in this Agreement, whether or not the same are covered by insurance.

Force Majeure. In the event Operator is rendered unable by an event of Force Majeure to perform its obligations hereunder it shall notify Customer of such event in writing and in reasonable detail describe the Force Majeure event, and the obligations of Operator may be suspended during the continuation of any inability so caused by the event of Force Majeure. If an event of Force Majeure materially and adversely affects the cost of operation or maintenance of Operator, Operator may, in addition to any other remedy, increase the applicable Disposal Rate to the extent necessary to offset the increase in such costs of operation and maintenance without prior notice to, or consent by, Customer.

Indemnity. Customer hereby acknowledges and assumes full responsibility for any risk of bodily injury, death or property damage while in, about, or upon the Disposal Site and for supervising any activities and behaviors of any of Customer's employees, agents, affiliates and contractors. Customer hereby agrees to indemnify, defend and hold harmless Operator, its parent companies, subsidiaries, and affiliates and its and their respective officers, directors and employees, agents and representatives (the "Indemnified Parties") from and against any and all loss, damage, suits, liability and expenses (including, but not limited to, reasonable investigation and legal expenses) arising out of, or in connection with, death or bodily injuries to any person, destruction or damage to any property, contamination of or adverse effects on the environment, Customer's violation of governmental laws, regulations, or orders, Customer's breach of any term or provision of the Agreement, or by the negligent or willful acts or omissions of Customer its employees, or its subcontractors in the performance of the Agreement. In addition, Customer also hereby expressly agrees to indemnify, defend and hold harmless the Indemnified Parties, from and against any damages arising out of resulting from any personal injury, death, or property damage suffered by an employee (including any person deemed by operation of law or contract to be an employee), agent, invitee or visitor of Customer while at the Disposal Site, even if the cause of such personal injury, death or property damages is the sole or concurrent negligence of the Indemnified Parties, excepting only such personal injury, death, or property damage that is caused by the willful misconduct or gross negligence of Operator or such other Indemnified Parties. The provisions of this paragraph shall survive the termination, cancellation or expiration of this Agreement. Operator hereby agrees to indemnify and hold Customer harmless from and against any and all loss, damage, suits, liability, and expenses (including, but not limited to, reasonable investigation and legal expenses) arising out, or in connection with Operator's breach of any term or provision of the

Agreement, or by the gross negligence or willful misconduct of Operator or its employees in the performance of the Agreement to the extent caused by Operator.

Binding Agreement; Assignment. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective subsidiaries, successors and assigns, subject to this paragraph. Customer may not assign or transfer its rights or obligations under this Agreement without the prior written consent of Operator. An assignment by operation of law, merger or purchase of thirty (30%) of more of the stock or voting stock of Customer shall be considered an assignment and subject to the prior written consent of Operator. Customer may not subcontract its right to dispose of waste or material at the Disposal Site to any third party.

Confidentiality. Customer shall treat as confidential and not disclose to others, except as necessary to perform this Agreement, any information (including technical information, experience or data) regarding pricing, Operator's (or its affiliates) programs, processes, product, costs, equipment, operations, or other customers which may come within Customer's or its employee's knowledge in the performance of this Agreement (which is not generally known to the public), without in each instance securing the prior written consent of Operator. Operator shall be entitled to injunctive relief and damages for any such breach.

Attorney's fees. If any legal action or any other proceeding is brought by Operator for the enforcement of this Agreement, or because of an alleged dispute, breach, default or misrepresentation in connection with this Agreement, Operator shall be entitled to recover reasonable attorneys' fees, collection fees and other costs (including litigation related costs, costs associated with the engagement of any collection agency, and expert witness fees) leading up to or incurred in that action or proceeding in addition to any other relief to which it may be entitled.

Arbitration Agreement, Jury Trial Waiver, And Class Action Waiver Clause. Except for claims by Operator for collection of its fees or individual claims by the Customer against Operator for property damage, the parties knowingly, voluntarily and irrevocably agree that at the election of either party any controversy or claim arising between them (INCLUDING THOSE CLAIMS ARISING OUT OF OR RELATED TO THIS AGREEMENT OR ANY PRIOR AGREEMENT) shall be resolved by BINDING ARBITRATION under the rules of the American Arbitration Association, which arbitration shall be governed by and enforceable under the Federal Arbitration Act, and judgment on the award may be entered by any court having jurisdiction thereof. WHETHER IN ARBITRATION OR AS OTHERWISE EXCEPTED ABOVE, NO CLAIMS MAY BE BROUGHT AS A CLASS ACTION, ON A CONSOLIDATED BASIS OR ANY OTHER COLLECTIVE OR REPRESENTATIVE PROCEEDING. The parties acknowledge the service Operator provides Customer impacts and effects interstate commerce and agree that any dispute about the enforceability or scope of the agreement to arbitrate shall be decided by the arbitrator. The parties' mutual promises contained herein, including to arbitrate certain disagreements, rather than litigate them before courts or other bodies, provide consideration for each other for this entire clause. EACH PARTY HERETO HEREBY WAIVES TRIAL BY JURY IN ANY ACTION, PROCEEDING, COUNTERCLAIM OR CROSS-CLAIM BROUGHT BY ANY OF THEM AGAINST THE OTHER AND WAIVES THE RIGHT TO PARTICIPATE AND/OR BE REPRESENTED IN ANY CLASS ACTION. Further, any action (including any arbitration) by Customer against Operator in connection with this Agreement or any prior Agreement, or arising out of the Agreement or any prior Agreement, must be brought within one (1) year of any alleged breach of contract, tort, violation of statute or other alleged wrongful act. Any proceedings shall be conducted in the location where the services provided by Operator to the Customer are performed.

Severability. The provisions of this Agreement are independent and severable, and no provision shall be affected or rendered invalid or unenforceable by virtue of the fact that another provision has been determined to be invalid or unenforceable in whole or in part. If any provision of this Agreement is held to be unenforceable, then this Agreement will be deemed amended to the extent necessary to render the otherwise unenforceable provision, and the rest of the Agreement, valid and enforceable. If a court declines to amend this Agreement as provided herein, the invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of the remaining provisions, which shall be enforced as if the offending provision had not been included in this Agreement.

Change Of Terms. Except as otherwise agreed herein or as may be prohibited by applicable law, Operator and Customer agree that Operator may change the pre-printed terms and conditions of this Agreement in the future.

Miscellaneous. Customer acknowledges and agrees that any telephone calls made to Operator by Customer may be recorded. Customer also agrees to accept any service and promotional information sent by Operator whether by mail or electronic transmission. This Agreement constitutes the entire understanding between Operator and Customer regarding the subject matter hereof and supersedes all prior negotiations, representations, understandings and agreements, either written or oral, with respect to such subject matter. No change, alteration or modification to this Agreement will be effective unless in writing and signed by Operator and Customer. As to conflicts between the terms hereof which are printed and those which are typed or written, the typed or written language shall govern. As to conflicts between this Agreement and the preprinted terms of Customer's agreement, if any, to which this Agreement may be attached or incorporated, the terms of this Agreement shall control. Customer and its individual owner(s) are jointly and severally liable for Customer's obligations under this Agreement and such owner(s) shall guarantee, jointly and severally, all of the obligations of Customer under this Agreement. Such owner(s) of Customer shall be deemed to have accepted such guarantee and joint liability upon execution of this Agreement by Customer. Customer and its individual owner(s) may be joined collectively or individually in any action against Customer or recovery can be had in such action or in any independent action against Customer and its owner(s) or one or more of Customer or its owner(s) without first exhausting any claim against Customer. This Agreement shall be governed by the laws of the state of Florida without regard to conflicts-of-laws principles that would require the application of any other law and is executed as of the Effective Date specified above. The provision of this Agreement are independent of and severable from each other, and no provision shall be affected or rendered invalid or unenforceable by virtue of the fact that any provision may be

invalid or unenforceable in whole or in part. Customer's representations, warranties, indemnifications and the arbitration provisions of this Agreement shall survive termination of this Agreement. This Agreement may be executed in one or more counterparts, each of which will be deemed to be an original copy and all of which, when taken together, will be deemed to constitute one and the same agreement. The exchange of copies of this Agreement and of signature pages by facsimile transmission or electronic mail in PDF format will constitute effective execution and delivery of this Agreement as to the parties and may be used in lieu of the original Agreement for all purposes. Failure to exercise any rights and/or remedies hereunder upon the non performance and/or the defective performance of any term, condition, covenant, or agreement herein contained shall not be construed as a waiver of said rights and/or remedies. Nor shall any prior waiver or acceptance be construed as a future waiver of any future right and/or remedy. Operator's aggregate liability, if any, arising out of this Agreement shall not exceed the aggregate fees paid to Operator by Customer, regardless of whether recovery is sought in contract, common law, tort, statute or otherwise. This is an Agreement for the performance of specific services described herein. Under no circumstances or conditions shall the operation of the Disposal Site by Operator in accordance with this Agreement be deemed a public function, nor has Customer acquired an interest, ownership or otherwise in the real or personal property or improvements or fixtures at the Disposal Site by virtue of this Agreement. EXCEPT AS EXPRESSLY SET FORTH HEREIN, OPERATOR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH ARE EXPRESSLY DISCLAIMED.

ADS Hickory Meadows Landfill, LLC/INC.

By: Kari Rebideau

Name: Kari Rebideau

Title: Environmental Project Mgr

Customer Name: Rice Management, Inc. c/o Wiggins Excavator, Inc

By (Signature): _____

Name & Title: Robben P. Rice, V. President

Name: _____

[Name of primary owner(s), individually]

ACCEPTED AND AGREED BY CUSTOMER OWNER(S)

_____

Owner Name:

_____

Owner Name:

_____

Owner Name:

EXHIBIT A
TO
DISPOSAL SERVICE AGREEMENT

Municipal Solid Waste Construction & Demolition Debris

Waste Type	Disposal Site	Disposal Rate	Volume Price Reduction	Volume Price Increase	Estimated Volume	Put or Pay
MSW	Advanced Disposal Hickory Meadows Landfill, LLC Telephone: (920) 853-8553 Fax: (920) 853-3513	$_____/ton	Greater than _____ Average Tons Per Day* $_____/ton	Less than _____ Average Tons Per Day* $_____/ton		
C&D	Advanced Disposal Hickory Meadows Landfill, LLC Telephone: (920) 853-8553 Fax: (920) 853-3513	$_____/ton	N/A			
Additional Comments:						

Special Waste, Contaminated Soil & Other Waste Systems

Waste Type	Disposal Site	Generator	Generating Site	Estimated Tonnage	Disposal Rate
Impacted Soil	Advanced Disposal Hickory Meadows Landfill, LLC	Former OHM	Main Street - GB	600 Tons	$28.50 /ton
					$_____/ton
					$_____/ton
					$_____/ton
Additional Comments:	Waste subject to $50.00 Review Approval Fee. Fuel and Environmental Surcharges applied at current rates (most recent was 17.84%)				

**Average Tons Per Day is a monthly average that is calculated based on working days per week*

4/29/15

EXHIBIT A, Continued

Definitions

1. "Acceptable Waste" means any and all solid waste or materials that is permitted to be accepted at the Disposal Site, in the sole discretion of the Operator, pursuant to federal, state, county, city, or local statute, regulation, ordinance, permit or license. Specifically excluded from the definition of Acceptable Waste are any special or industrial wastes for which there is no Operator preapproved Profile Identification Sheet and any listed or regulated hazardous waste as defined by applicable law

2. "Change in Law" means any amendment to, or promulgation of any federal, state, county, city, or local statute, regulation, or ordinance after the date of this Agreement that imposes, changes, modifies, and/or alters requirements upon: (a) the operation of the Disposal Site; (ii) the construction of the Disposal Site; (iii) the disposal of Acceptable Waste at the Disposal Site, or which statute, regulation, or ordinance requires the Disposal Site to seek either an amendment or modification to, or reissuance of any required permits, licenses, certificates of public convenience and necessity, approval or authorization issued by any governmental body entitling the Disposal Site to construct and operate such Disposal Site or to dispose of Acceptable Waste at the Disposal Site or imposes additional requirements or prohibitions upon such construction, operation or disposal.

3. "Fees and Taxes" means any federal, state, local or other taxes, assessments, fees, host charges, surcharges or similar charges directly or indirectly related to the disposal of waste which are imposed on the Disposal Site by law, ordinance or regulation and/or agreement with a governmental body, whether imposed retroactively or prospectively.

4. "Force Majeure" means any act, event, or condition having a direct material adverse effect on Operator's ability to accept, process, or dispose of Acceptable Waste, if such act, event, or condition is beyond the reasonable control of Operator. Such acts, events, or conditions shall include, but shall not be limited to, the following: (a) An act of God, lightning, earthquake, fire, severe weather conditions, epidemic, land-slide, drought, hurricane, tornado, storm, explosion, partial or entire failure of utilities, flood, nuclear radiation, act of a public enemy, war, blockade, insurrection, riot or civil disturbance, labor strike or interruption, extortion, sabotage, or similar occurrence or any exercise of the power of eminent domain, condemnation, or other taking by the act of any governmental body on behalf of any public, quasi-public, or private entity; or (b) The order, judgment, action, or determination of any federal, state, or local court, administrative agency, or governmental body (excepting decision interpreting federal, state, and local tax laws), which adversely affects the: (i) construction or operation of the Disposal Site, (ii) the right or ability of the Disposal Site to accept Acceptable Waste, or (iii) the right or ability of Operator to dispose of the Acceptable Waste or (iv) the suspension, termination, interruption, denial, or failure or renewal or issuance of any permit, license, consent, authorization, or approval necessary to the operation of the Disposal Site, or acceptance, processing, transportation, or disposal of Acceptable Waste, as applicable.

5. "Hazardous Waste" means any and all (a) hazardous substances, pollutants, and contaminants, as defined by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended, solid or hazardous wastes, as defined by the Resource Conservation and Recovery Act, as amended, hazardous materials, as defined by the Hazardous Materials Transportation Act, as amended, toxic substances, as defined by the Toxic Substances Control Act, as amended, toxic chemicals or extremely hazardous substances, as defined by the Emergency Planning and Community Right-To-Know Act, as amended, hazardous air pollutants, as defined by the Clean Air Act, as amended, and hazardous substances, as defined by the Clean Water Act, as amended; (b) any other toxins, chemicals, wastes, substances, or materials which pose an unreasonable risk to human health or the environment, or which are regulated under any applicable federal, state, or local laws rules, or regulations, or any other material which any governmental agency or unit having appropriate jurisdiction shall determine from time to time is harmful, toxic, or dangerous, or otherwise ineligible for disposal at the Disposal Site; (c) any material that requires other than normal handling, storage, management, transfer or disposal; or (d) any other material that may present a substantial endangerment to public health or safety, may cause applicable air quality or water standards to be violated by the normal operation of the Disposal Site, or because of its size, durability or composition cannot be disposed of at the Disposal Site or has a reasonable possibility of otherwise adversely affecting the operation or useful life of the Disposal Site.

6. "Special Waste" shall mean all treated/de characterized (formerly hazardous) wastes; petroleum or petroleum products; polychlorinated biphenyl (PCB) wastes; industrial process wastes; asbestos containing material; chemical containing equipment; demolition debris; incinerator ash; medical wastes; off-spec chemicals; sludges; spill cleanup wastes; underground storage tank (UST) soils; and wastes from service industries.

7. "Suspicious Waste" means waste which Operator reasonably suspects may be Unacceptable Waste.

8. "Unacceptable Waste" means any and all waste that is either: (a) is not Acceptable Waste, (b) waste which is or may be prohibited from disposal at the Disposal Site by federal or state law, regulation, rule, code, ordinance, order, permit or permit condition; (c) Hazardous Waste; or (d) Special Waste which does not conform to the analysis or characteristics described in a special waste agreement.

Customer Initials: 

Advanced Disposal

ADVANCED DISPOSAL
HICKORY MEADOWS LANDFILL, LLC - B5
W3105 SCHNEIDER RD.
HILBERT WI 54129

Pay By Phone: 1-877-720-1583
Phone PIN: 0100007730000

Advanced Disposal is a company bringing fresh ideas and solutions to a clean environment. How can we further help your business or home become greener and cleaner? Visit us at www.AdvancedDisposal.com.

Should you have questions about charges, please see the back of this invoice, call your service representative or go to www.AdvancedDisposal.com.

RETURN SERVICE REQUESTED

RICE MANAGEMENT INC
1726 N BALLARD ROAD
APPLETON, WI 54911

Account Information

Account Number	B5000773
Site Number	0000
Invoice Date	August 31, 2015
Invoice Number	B50000011860

Account Summary

Previous Balance	$0.00
Payments/Adjustments	$0.00
Current Invoice Amount	$18,200.71

Amount Due	**$18,200.71**
Due Date	**Upon Receipt**

Invoice Breakdown

Current	$18,200.71
30 days - past due	$0.00
60 days - past due	$0.00
90 days - past due	$0.00

It's easy being Green..sign up for ebill and auto pay at http://www.AdvancedDisposal.com/billpay

Contact Us
(920) 853-8553
HickoryMeadowsLF@AdvancedDisposal.com

THANK YOU FOR USING HICKORY MEADOWS LANDFILL FOR YOUR SOLID WASTE DISPOSAL NEEDS

Previous Balance	**$0.00**
Payments and Adjustments	**$0.00**

Date	Description	Reference	Qty	Unit Price	Amount
08/05/15	APPROVAL FEE SPEC	B5 514099 HML14-182	1.00EA	50.00	50.00
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514099 HML14-182	26.49TN	15.50	410.60
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514105 HML14-182	22.32TN	15.50	345.96
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514106 HML14-182	22.07TN	15.50	342.09
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514107 HML14-182	21.48TN	15.50	332.94
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514136 HML14-182	24.28TN	15.50	376.34
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514143 HML14-182	17.26TN	15.50	267.53
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514144 HML14-182	20.32TN	15.50	314.96
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514145 HML14-182	20.02TN	15.50	310.31
08/05/15	37A Remediated Waste / Soil (Ext)	B5 514169 HML14-182	20.74TN	15.50	321.47
08/05/15	37A Remediated Waste	B5 514182	18.02TN	15.50	279.31

SLOW DOWN TO GET AROUND

Be safe around garbage trucks. Being struck by motorists is a leading cause of death for waste and recycling collection employees. When you see a truck on route and your garbage man or woman hard at work, remember to Slow Down To Get Around.

This is state law in Alabama, Florida, Georgia, Illinois, Indiana, Michigan, North Carolina, West Virginia and Wisconsin.

For more information, visit **beginwiththebin.org/slowdown**.

AdvancedDisposal.com

PLEASE RETURN THIS PORTION WITH PAYMENT

Printed on recycled paper

Advanced Disposal

ADVANCED DISPOSAL
HICKORY MEADOWS LANDFILL, LLC - B5
W3105 SCHNEIDER RD.
HILBERT WI 54129
Please Send All Correspondence to Above Address

☐ Please check box for address change and print new address on reverse side.

Due Date: Upon Receipt

Customer Billing Address:
RICE MANAGEMENT INC
1726 N BALLARD ROAD
APPLETON, WI 54911

Remit Payment To:
(Please do not send CASH via mail)
Advanced Disposal
Hickory Meadows Landfill, LLC - B5
PO BOX 74008053
CHICAGO IL 60674-8053

ACCOUNT #	INVOICE #	AMT. ENCLOSED
B5000773	B50000011860	
INVOICE TOTAL	BALANCE DUE	
$18,200.71	$18,200.71	

B5 000773 0000 083115 0000011860 01820071 01820071 0

HOW TO READ YOUR BILL

LOCAL OFFICE AND CONTACT INFORMATION

Use the number listed for the local Advanced Disposal office if you have specific questions about your invoice or service. All correspondence should be directed to the email, phone number and address set forth on the front of the invoice.

CUSTOMER BILLING ADDRESS AND CUSTOMER SERVICE ADDRESS

This information has been provided by you to Advanced Disposal. If your billing address has changed, please notify your Local Office.

ACCOUNT INFORMATION AND ACCOUNT SUMMARY

The Account Information summarizes account information, including the Invoice Date. The Invoice Date is the date the invoice was generated and mailed. The Account Summary lists your balances, payments and adjustments, and invoice amount for the current period. The Previous Balance includes amounts billed previously for which Advanced Disposal has not received payment.

AMOUNT DUE

The Amount Due includes all service charges, fees or assessments, and any adjustments, as well as all applicable taxes and governmental charges and fees, and, subject to your applicable service agreement or unless otherwise agreed, is due upon receipt of your invoice. Advanced Disposal may impose monthly interest on all past due service related charges, (including the base service rate, Fuel Fee, Environmental Fee, Administrative Fee, etc.) at an interest rate equal to 18% APR, or a minimum of $5.95, unless specifically prohibited by applicable law, in which case interest shall be assessed at the highest rate allowed by applicable law.

SUBJECT TO YOUR APPLICABLE SERVICE AGREEMENT OR UNLESS OTHERWISE AGREED, ADVANCED DISPOSAL RESERVES THE RIGHT TO INCREASE SERVICE RATES AND ALL FEES AND ASSESSMENTS WITHOUT PRIOR NOTICE OR CONSENT, TO ADJUST FOR COST INCREASES OR TO ACHIEVE, AMONG OTHER THINGS, AN OPERATING MARGIN ACCEPTABLE TO ADVANCED DISPOSAL AND ITS AFFILIATES. Consent, if required, to any changes in service rates, fees or assessments may be evidenced verbally, in or by the actions and practices of the parties, or by payment of the invoice service rates, fees, and assessments. If you do not object, in writing, within 30 days of the Invoice Date, then you shall have conclusively agreed that such invoice is correct in all respects, whether paid or not.

ENVIRONMENTAL FEE, FUEL FEE AND ADMINISTRATIVE FEE; OTHER FEES

Subject to the terms of your applicable service agreement or unless otherwise agreed, Advanced Disposal reserves the right to impose environmental, fuel and administrative fees, and any other fees and assessments, included on the front of the invoice, and Advanced Disposal also reserves the right to increase or decrease these fees or assessments at any time and for any reason by showing the amount on the front of the invoice. THE FUEL AND ENVIRONMENTAL FEES ARE NOT A TAX OR SURCHARGE IMPOSED BY OR REMITTED TO ANY GOVERNMENTAL OR REGULATORY AGENCY; IT IS ADVANCED DISPOSAL'S CHARGE AND IS NOT PAID TO ANY GOVERNMENT OR REGULATORY AGENCY. The amount of the environmental, fuel and administrative fee, and any other fees or assessments, reflected on your invoice is not designed to be specific to the direct costs and expense to service your account, but rather is designed to address changes in Advanced Disposal's and its affiliates' overall costs and expenses and to achieve an operating margin acceptable to Advanced Disposal and its affiliates. For additional information, including examples of environmental compliance costs and updated fuel information, please contact your Local Office or visit us at www.advanceddisposal.com.

Environmental Fee. The Environmental Fee helps to cover company wide direct and indirect costs and expenses with respect to environmental compliance and incurred in order to operate our collection, transfer, landfill, materials recovery facilities, and landfill gas-to-energy operations in a safe and environmentally responsible manner. Unless otherwise agreed, the Environmental Fee is a percentage of your total invoice charges, not including fees and taxes, as shown on the invoice, which may change from time-to-time.

Fuel Fee. There are fuel and other petrochemical (oil, lubricants, etc.) direct and indirect costs associated with Advanced Disposal and its affiliates' collection, transfer, landfill and material recovery facilities in multiple states and geographic regions. Unless otherwise agreed, the Fuel Fee is a percentage of your total invoice charges, not including fees and taxes, as shown on the invoice, which may change from time-to-time. The Fuel Fee is designed to help recover increases in these costs and, unless otherwise agreed, is intended to fluctuate with the average monthly diesel price as reported by the U.S. Energy Information Administration/Department of Energy (EIA/DOE) Retail On-Highway Diesel Fuel Price Index. As a result, the Fuel Fee may change on a monthly basis.

Administrative Fee. The Administrative Fee is based on Advanced Disposal's overall estimated costs and expenses for billing and collection functions, including but not limited to, human resources, print mail, lock box services, bank charges, and bad debt. If you are making automatic payments, and receiving paperless invoices, you will receive a discounted Administrative Fee. Unless otherwise agreed, the Administrative Fee is a flat rate as stated on the front of the invoice.

Other Charges. Additional charges may be incurred due to events such as new or additional service or equipment related requests, new or additional fees imposed on Advanced Disposal by governmental or regulatory agencies (for example, franchise fees), resumed services previously suspended for nonpayment, missed or extra pick ups, etc. When incurred, such charges will appear on the front of the invoice.

IMPORTANT MESSAGES

This is an area on the front of the invoice designated for special notifications, including changes in payment terms. Further, we periodically review and revise our company's general service guidelines, therefore, please also visit our website to read special terms and conditions that may apply.

PAYMENT REMITTANCE

Please remit payment to the address noted on the perforated portion of the invoice, which should be included with your payment. Please do not send cash via mail.

WISCONSIN CUSTOMERS

State and local laws require everyone in Wisconsin to recycle newspaper, office paper, magazines, cardboard and glass/plastic/aluminum/steel food and beverage containers. Yard waste, tires, appliances, motor oil and lead acid batteries must be recycled as well but may not be included in your recycling service. Please contact your local Advanced Disposal office for more information regarding your recycling service and recycling options in your area.

Change of Address

Please print correct address below:

Name _____

Address _____

City _____ State _____ Zip _____

Phone (Home) _____ Phone (Mobile) _____ Phone (Work) _____

Email _____

Advanced Disposal

RICE MANAGEMENT INC
1726 N BALLARD ROAD
APPLETON, WI 54911

Account Information

Account Number	B5000773
Site Number	0000
Invoice Date	August 31, 2015
Invoice Number	B50000011860

Current Charges (Continued)

Date	Description	Reference	Qty	Unit	Amount
	/ Soil (Ext)	HML14-182			
08/05/15	37A Remediated Waste	B5 514190	19.66TN	15.50	304.73
	/ Soil (Ext)	HML14-182			
08/05/15	37A Remediated Waste	B5 514192	10.90TN	15.50	168.95
	/ Soil (Ext)	HML14-182			
08/05/15	37A Remediated Waste	B5 514196	20.59TN	15.50	319.15
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514223	19.54TN	15.50	302.87
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514224	18.26TN	15.50	283.03
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514227	18.22TN	15.50	282.41
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514242	24.04TN	15.50	372.62
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514244	17.11TN	15.50	265.21
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514261	21.41TN	15.50	331.86
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514263	21.12TN	15.50	327.36
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514269	18.41TN	15.50	285.36
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514278	17.37TN	15.50	269.24
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514291	21.62TN	15.50	335.11
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514296	23.22TN	15.50	359.91
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514302	20.82TN	15.50	322.71
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514315	20.37TN	15.50	315.74
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514334	19.92TN	15.50	308.76
	/ Soil (Ext)	HML14-182			
08/06/15	37A Remediated Waste	B5 514343	25.28TN	15.50	391.84
	/ Soil (Ext)	HML14-182			
08/31/15	ENVIRONMENTAL FEE		8848.37		1,393.63
08/31/15	FUEL SURCHARGE		8848.37		487.53
08/31/15	WI RECYCLE SURCHARGE at $7.00/TN		570.86		3,996.02
08/31/15	WI GROUNDWATER FEE at $6.00/TN		570.86		3,425.16
	---------- Material Summary ----------				
	37A Remediated Waste / Soil (Ext)		570.86 TN		8,848.37
	APPROVAL FEE SPEC		1.00 EA		50.00
		Current Charges			**$18,200.71**
		Amount Due			**$18,200.71**

JEFF FOUST EXCAVATING, INC.
2824 CLAIRVILLE ROAD
OSHKOSH, WISCONSIN 54904

(920) 426-5808
FAX: (920) 426-4000

Invoice

Invoice Number: 13706
Invoice Date: Aug 7, 2015
Page: 1

Sold To:
WAUPACA ELEVATOR COMPANY
1726 N BALLARD ROAD
APPLETON, WI 54911

Customer PO	Payment Terms	Due Date	Customer ID
1923 N MAIN ST, GB	Net 30 Days	9/6/15	WAUPACA

Quantity	Description	Unit Price	Extension
1.00	CONTRACTOR MOBILIZATION/DEMOB/MANAGEMENT/PERMITS/STD FENCE & BARRIERS	3,990.00	3,990.00
30.65	TONS CUT AND REMOVE, OFF-SITE DISPOSAL CONCRETE AND ASPHALT	16.50	505.73
570.86	TONS EXCAVATE CONTAMINATED SOIL	1.75	999.01
1.00	EXCAVATE SUMP, ASSIST WITH SUMP INSTALLATION	150.00	150.00
21.85	TONS PEA GRAVEL FOR SUMP INSTALLATION	17.50	382.38
570.86	TONS CONTAMINATED SOIL HAULED TO LANDFILL	8.50	4,852.31
386.76	TONS PROVIDE AND COMPACT SAND AND GRAVEL GRANULAR BACKFILL	11.25	4,351.05

Subtotal Continued
Sales Tax Continued

TOTAL Continued

A service charge of 1-1/2% per month (18% annual rate) will be added to your account after 30 days from billing date.

Invoice

Invoice Number:
13706
Invoice Date:
Aug 7, 2015
Page:
2

Sold To:
WAUPACA ELEVATOR COMPANY
1726 N BALLARD ROAD
APPLETON, WI 54911

Customer PO	Payment Terms	Due Date	Customer ID
1923 N MAIN ST, GB	Net 30 Days	9/6/15	WAUPACA

Quantity	Description	Unit Price	Extension
156.52	TONS PROVIDE TRAFFIC BOND OR EQUIVALENT COMPACTABLE FILL	14.25	2,230.41
59.59	TONS 2-INCH CLEAR STONE IN THE EXCAVATION BASE	16.00	953.44

This invoice has been reviewed and compared with the respective bid for services.
X Please pay vendor in full
_____ Pay vendor as modified
$18,414.33 Anticipated reimbursable amount
Client: Rice Management Project # 14-1138
By: Matt Date: 8/19/15
Fehr Graham

Subtotal	18,414.33
Sales Tax	
TOTAL	**18,414.33**

A service charge of 1-1/2% per month (18% annual rate) will be added to your account after 30 days from billing date.

Appendix C

Photolog

Photo 1: Pre building demo front side of building, face North from near MW-8 (July 2012)

Photo 2: Pre building demo loading docks back side of building, face Southeast from near MW-4 (July 2012)

Photo 3: Pre building demo, inside building, face Southeast from Northwest wall (July 2012)

Photo 4: Pre building demo inside drilling, face Northeast from near west building corner (December 2012)

Photo 5: Pre building demo inside drilling, face South near GEC TW-1 (December 2012)

Photo 6: Post building demo, face South near MW-4 (April 2014)

Photo 7: Post building demo, face North from eastern property line (April 2014)

Photo 8: Remedial Excavation, final dig limits and backfilled, face Southwest from near MW-4 (August 2015)

Photo 9: Redevelopment building, face Southeast from near western property line (June 2016)

Photo 10: Redevelopment building, face East from near MW-9 (August 2016)

Photo 11: Redevelopment building after asphalt laid, face East from near MW-9 (August 2016)

Photo 12: Final Redevelopment, face East from Arby's parking lot entrance (December 2016)

Photo 13: Final Redevelopment, face Northwest from near MW-8 (December 2016)

Appendix D

Geotechnical Reports

Professional Service Industries, Inc.
2740 Packerland Dr, Suite F
Green Bay, WI 54313

Phone: (920) 592-9540
Fax: (920) 592-0259

Summary Daily Field Report

Report No: SDFR:0093225-1

Issue No: 1

Client: FEHR GRAHAM
1237 S. PILGRIM RAOD
PLYMOUTH, WI 53073

CC:
MATT DAHLEM

Project: FORMER OHM PROPERTY-GB
GREEN BAY, WI

Approved Signatory: Mike Greil (Branch Manager)
Date of Issue: 5/22/2015

Date: 5/22/2015

WEATHER: 63º, Sunny
TEMPERATURE RANGE: ºF TO ºF
PSI REPRESENTATIVE: Vladimir Pidkalyuk

TYPE OF INSPECTION BEING PERFORMED

SOILS
- ☐ FOUNDATIONS
- ☐ CONTROLLED FILL (COMPACTION)
- ☑ SAMPLE PICKUP

ASPHALT
- ☐ BATCH PLANT
- ☐ PLACEMENT (JOB SITE)
- ☐

CONCRETE
- ☐ BATCH PLANT
- ☐ PLACEMENT (JOB SITE)
- ☐ SPECIMEN TRANSPORT
- ☐

OTHER
- ☐
- ☐
- ☐

BRIEF RESUME OF WORK ACCOMPLISHED THIS DATE:

As requested, a representative of PSI reported to the Ulmen Quarry, which is located at 2551 Dutchman Road in Green Bay, WI to retrieve a soil and/or aggregate sample, which was transported back to the PSI laboratory for further preparation and testing.

Professional Service Industries, Inc.
2740 Packerland Dr, Suite F
Green Bay, WI 54313

Phone: (920) 592-9540
Fax: (920) 592-0259

Proctor Report

Report No: PTR:0093225-2-S1
Issue No: 1

Client: FEHR GRAHAM
1237 S. PILGRIM RAOD
PLYMOUTH, WI 53073

CC: MATT DAHLEM
TIM MAERTZ

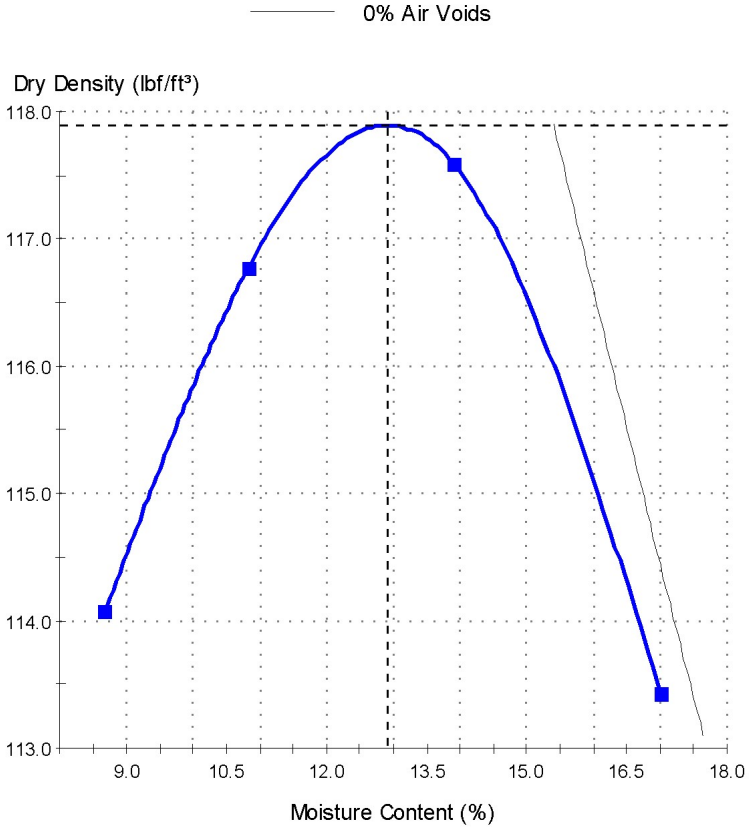
Project: FORMER OHM PROPERTY-GB
GREEN BAY, WI

Approved Signatory: Cody Williquette (Staff Engineer)
Date of Issue: 5/26/2015

Sample Details

Sample ID:	0093225-2-S1	Date Sampled:	5/22/2015
Sampled By:	Vladimir Pidkalyuk	Specification:	95
Supplier:	Ulmen Quarry	Source:	Backfill Material Use
Material:	Brown silty SAND, with trace gravel	Sampling Method:	Stockpile/Trans - ASTM D 75 - 5.3.3
General Location:	1923 Main Street	Location:	Contamination Pit Backfill
Tested By:	Vladimir Pidkalyuk	Date Tested:	5/22/2015

Dry Density - Moisture Content Relationship



Test Results

ASTM D 1557

Maximum Dry Density (lbf/ft³):	117.9
Optimum Moisture Content (%):	12.9
Method:	B
Preparation Method:	Moist
Specific Gravity (Fines):	2.67
Specific Gravity Method:	Estimated
Retained Sieve 3/8" (9.5mm) (%):	2
Passing Sieve 3/8" (9.5mm) (%):	98

Comments

Professional Service Industries, Inc.
2740 Packerland Dr, Suite F
Green Bay, WI 54313

Phone: (920) 592-9540
Fax: (920) 592-0259

Field Density Test Report

Report No: FDR:0093225-3
Issue No: 1

Client: FEHR GRAHAM
1237 S. PILGRIM RAOD
PLYMOUTH, WI 53073

CC: MATT DAHLEM
TIM MAERTZ

Project: FORMER OHM PROPERTY-GB
GREEN BAY, WI

Approved Signatory: Mike Greil (Branch Manager)
Date of Issue: 8/7/2015

Testing Details

Tested By:	Robert Kulick		
Date Tested:	8/5/2015		
Field Methods:	ASTM D 6938		
Gauge Type:	Campbell Pacific	Test Mode:	Direct Transmission
Model Number:	MC-1DR-P PortaProbe	Standard Count: Density:	20169
Serial Number:	405557	Standard Count: Moisture:	9030

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft³)	OMC (%)
0093225-2-S1	Ulmen Quarry	Brown silty SAND, with trace gravel	ASTM D 1557 (B)	117.9	12.9

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	0093225-2-S1	10	124.7	10.3	-2.6	113.1	95.9	≥95	A
2	0093225-2-S1	10	124.1	10.0	-2.9	112.8	95.7	≥95	A
3	0093225-2-S1	10	124.9	10.4	-2.5	113.1	95.9	≥95	A
4	0093225-2-S1	10	123.5	10.2	-2.7	112.1	95.1	≥95	A
5	0093225-2-S1	10	129.9	10.2	-2.7	117.9	100.0	≥95	A

Location

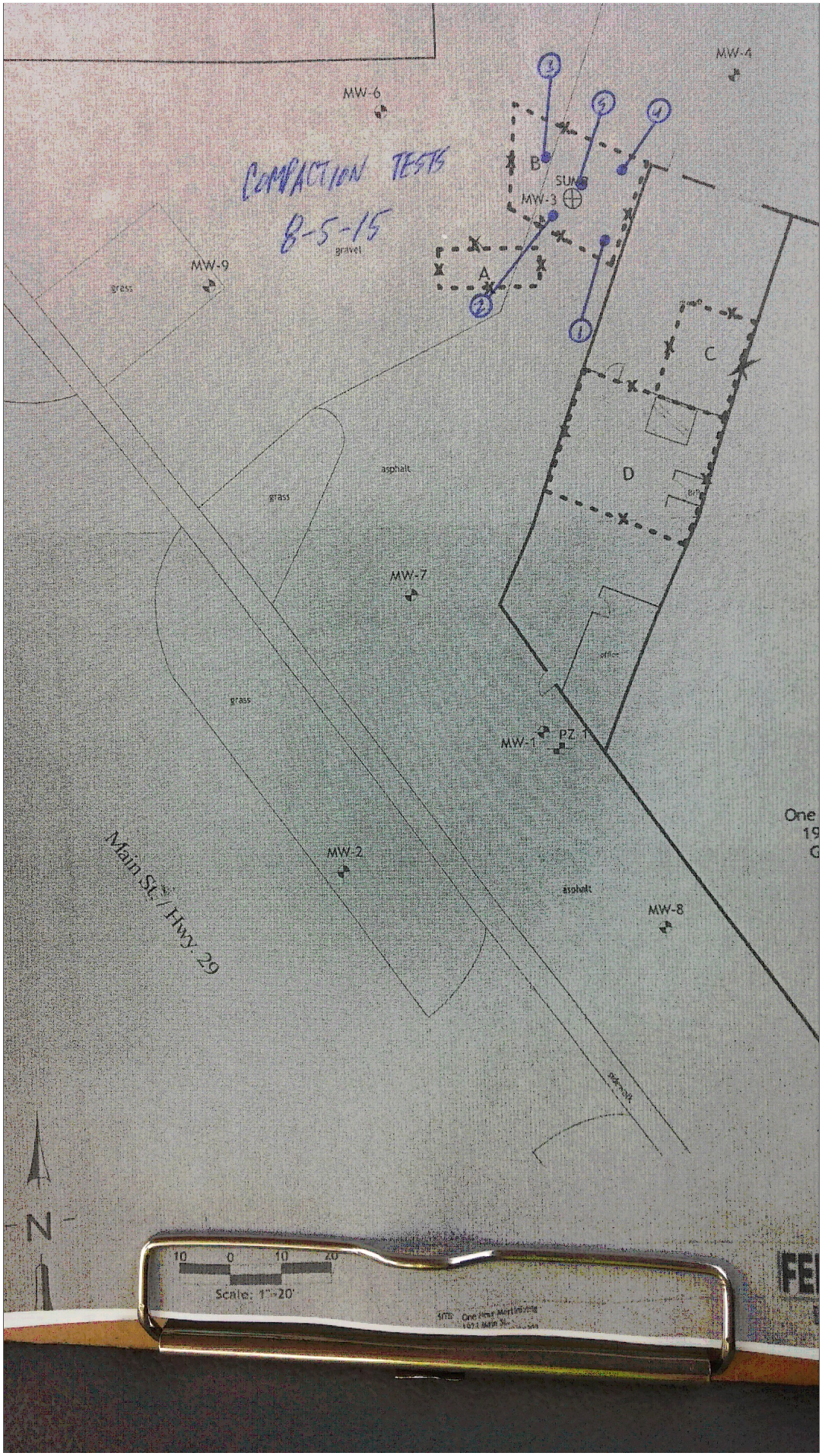
General Location: 1923 Main Street - Pit B

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Diagram	4' below ex. grade	Backfill
2	See Diagram	3' below ex. grade	Backfill
3	See Diagram	2' below ex. grade	Backfill
4	See Diagram	2' below ex. grade	Backfill
5	See Diagram	1.5' below ex. grade	Backfill

Comments

Legend

OMC = Optimum Moisture Content
MDD = Maximum Dry Density
A = TEST RESULTS COMPLY WITH SPECIFICATION



Professional Service Industries, Inc.
2740 Packerland Dr, Suite F
Green Bay, WI 54313

Phone: (920) 592-9540
Fax: (920) 592-0259

Field Density Test Report

Report No: FDR:0093225-4
Issue No: 1

Client: FEHR GRAHAM
1237 S. PILGRIM RAOD
PLYMOUTH, WI 53073

CC: MATT DAHLEM
TIM MAERTZ

Project: FORMER OHM PROPERTY-GB
GREEN BAY, WI

Approved Signatory: Mike Greil (Branch Manager)
Date of Issue: 8/7/2015

Testing Details

Tested By:	Robert Kulick		
Date Tested:	8/6/2015		
Field Methods:	ASTM D 6938		
Gauge Type:	Campbell Pacific	Test Mode:	Direct Transmission
Model Number:	MC-1DR-P PortaProbe	Standard Count: Density:	20089
Serial Number:	405557	Standard Count: Moisture:	8759

Proctor Information

Sample ID	Supplier	Material	Method	MDD (lb/ft³)	OMC (%)
0093225-2-S1	Ulmen Quarry	Brown silty SAND, with trace gravel	ASTM D 1557 (B)	117.9	12.9

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
1	0093225-2-S1	10	126.2	11.0	-1.9	113.7	96.4	≥95	A
2	0093225-2-S1	10	126.9	9.5	-3.4	115.9	98.3	≥95	A
3	0093225-2-S1	10	124.0	9.9	-3.0	112.8	95.7	≥95	A
4	0093225-2-S1	10	127.2	9.3	-3.6	116.4	98.7	≥95	A
5	0093225-2-S1	10	124.2	10.0	-2.9	112.9	95.8	≥95	A
6	0093225-2-S1	10	122.6	9.0	-3.9	112.5	95.4	≥95	A

Location

General Location: 1923 Main Street - Pit A

Test No.	Location	Test Elev/Depth	Material/Layer
1	See Diagram	4' below ex. grade	Backfill
2	See Diagram	3' below ex. grade	Backfill

General Location: 1923 Main Street - Pit B

Test No.	Location	Test Elev/Depth	Material/Layer
3	See Diagram	2' below ex. grade	Backfill
4	See Diagram	2' below ex. grade	Backfill

General Location: 1923 Main Street - Pit C & D

Test No.	Location	Test Elev/Depth	Material/Layer
5	See Diagram	4.5' below ex. grade	Backfill
6	See Diagram	4.5' below ex. grade	Backfill

Comments

Legend

OMC = Optimum Moisture Content
MDD = Maximum Dry Density
A = TEST RESULTS COMPLY WITH SPECIFICATION

Professional Service Industries, Inc.
2740 Packerland Dr, Suite F
Green Bay, WI 54313

Phone: (920) 592-9540
Fax: (920) 592-0259

Field Density Test Report

Report No: FDR:0093225-4
Issue No: 1

Client: FEHR GRAHAM
1237 S. PILGRIM RAOD
PLYMOUTH, WI 53073

CC: MATT DAHLEM
TIM MAERTZ

Project: FORMER OHM PROPERTY-GB
GREEN BAY, WI

Approved Signatory: Mike Greil (Branch Manager)
Date of Issue: 8/7/2015

Test Results

Test No.	Proctor Sample ID	Probe Depth (in.)	Wet Density (lb/ft³)	Moisture Content (%)	OMC Var	Dry Density (lb/ft³)	Comp (%)	Comp Spec	Results
7	0093225-2-S1	10	124.5	10.1	-2.8	113.1	95.9	≥95	A
8	0093225-2-S1	10	124.0	10.2	-2.7	112.5	95.4	≥95	A
9	0093225-2-S1	10	122.8	8.8	-4.1	112.9	95.8	≥95	A
10	0093225-2-S1	10	123.5	10.0	-2.9	112.3	95.3	≥95	A
11	0093225-2-S1	10	122.9	9.2	-3.7	112.5	95.4	≥95	A
12	0093225-2-S1	10	124.0	10.0	-2.9	112.7	95.6	≥95	A
13	0093225-2-S1	10	124.6	9.8	-3.1	113.5	96.3	≥95	A
14	0093225-2-S1	10	124.4	10.1	-2.8	113.0	95.8	≥95	A

Location

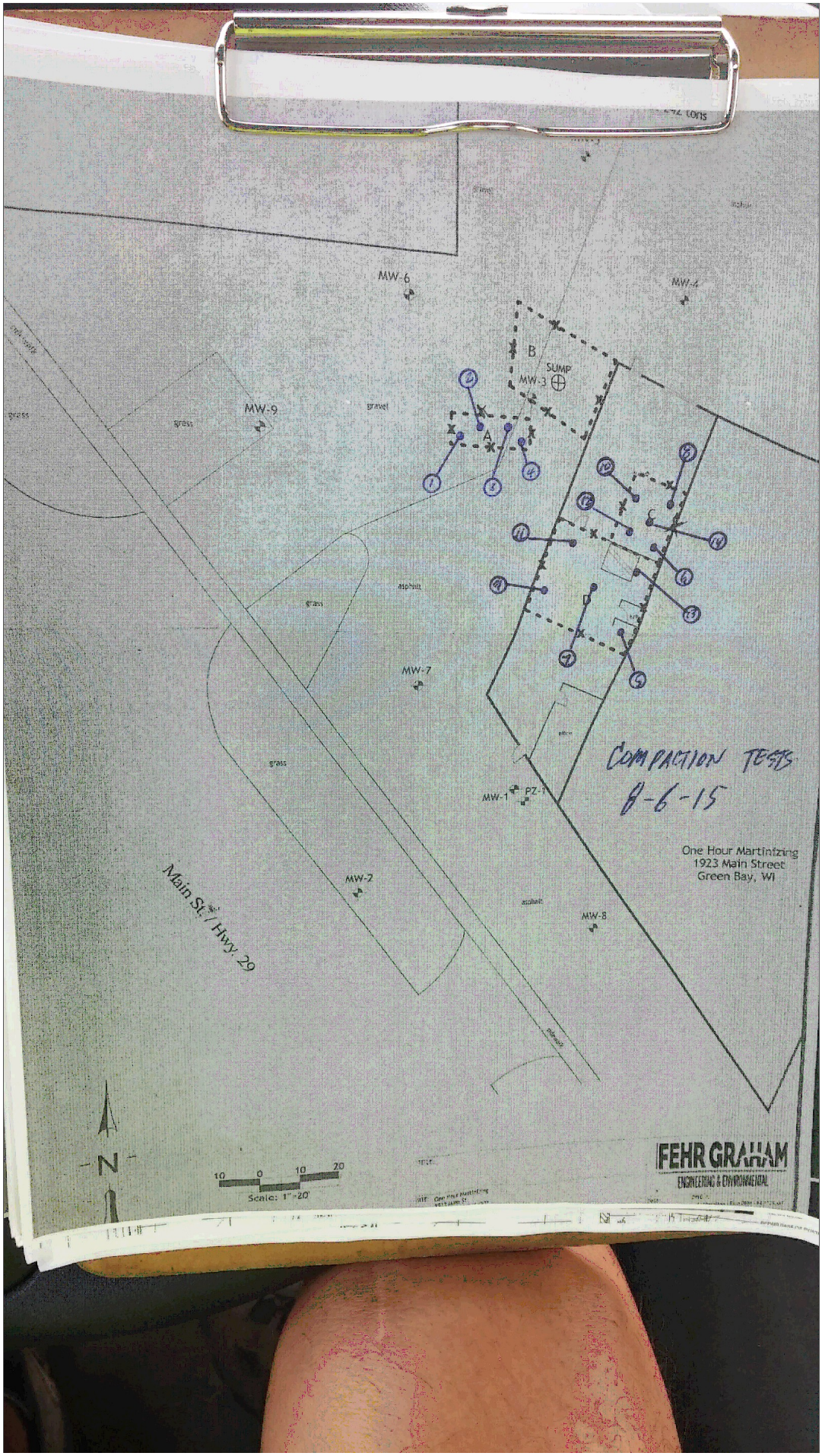
General Location: 1923 Main Street - Pit C & D

Test No.	Location	Test Elev/Depth	Material/Layer
7	See Diagram	3.5' below ex. grade	Backfill
8	See Diagram	3.5' below ex. grade	Backfill
9	See Diagram	3.5' below ex. grade	Backfill
10	See Diagram	2.5' below ex. grade	Backfill
11	See Diagram	1.5' below ex. grade	Backfill
12	See Diagram	1.5' below ex. grade	Backfill
13	See Diagram	.5' below ex. grade	Backfill
14	See Diagram	.5' below ex. grade	Backfill

Comments

Legend

OMC = Optimum Moisture Content
MDD = Maximum Dry Density
A = TEST RESULTS COMPLY WITH SPECIFICATION



Appendix E

Laboratory Analytical Report

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

August 18, 2015

Matt Dahlem
Fehr Graham Engineering and Environmental
1237 Pilgrim Road
Plymouth, WI 53073

RE: Project: 14-1138 RICE
Pace Project No.: 40119378

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Megan Hansen, Fehr Graham Engineering and Environmental

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 14-1138 RICE
Pace Project No.: 40119378

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

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 14-1138 RICE
Pace Project No.: 40119378

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40119378001	**AN**	Solid	08/05/15 09:40	08/07/15 15:10
40119378002	**AS**	Solid	08/05/15 09:40	08/07/15 15:10
40119378003	**AE**	Solid	08/05/15 09:40	08/07/15 15:10
40119378004	**AW**	Solid	08/05/15 09:40	08/07/15 15:10
40119378005	**BN**	Solid	08/05/15 13:00	08/07/15 15:10
40119378006	**BS**	Solid	08/05/15 13:00	08/07/15 15:10
40119378007	**BE**	Solid	08/05/15 13:00	08/07/15 15:10
40119378008	**BW**	Solid	08/05/15 13:00	08/07/15 15:10
40119378009	**CN**	Solid	08/06/15 09:00	08/07/15 15:10
40119378010	**CE**	Solid	08/06/15 09:00	08/07/15 15:10
40119378011	**CW**	Solid	08/06/15 09:00	08/07/15 15:10
40119378012	**DN**	Solid	08/06/15 08:15	08/07/15 15:10
40119378013	**DS**	Solid	08/06/15 08:15	08/07/15 15:10
40119378014	**DE**	Solid	08/06/15 10:20	08/07/15 15:10
40119378015	**DW**	Solid	08/06/15 08:15	08/07/15 15:10

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 14-1138 RICE
Pace Project No.: 40119378

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40119378001	**AN**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378002	**AS**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378003	**AE**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378004	**AW**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378005	**BN**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378006	**BS**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378007	**BE**	EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378008	**BW**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378009	**CN**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378010	**CE**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378011	**CW**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378012	**DN**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378013	**DS**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378014	**DE**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G
40119378015	**DW**	EPA 8260	LAP	64	PASI-G
		ASTM D2974-87	TEL	1	PASI-G

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AN **Lab ID: 40119378001** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 17:40	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 17:40	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 17:40	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 17:40	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 17:40	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AN **Lab ID: 40119378001** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 17:40	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 17:40	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 17:40	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	49-157		1	08/10/15 08:00	08/10/15 17:40	1868-53-7	
Toluene-d8 (S)	114	%	61-148		1	08/10/15 08:00	08/10/15 17:40	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	08/10/15 08:00	08/10/15 17:40	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AS **Lab ID: 40119378002** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 18:03	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 18:03	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 18:03	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 18:03	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 18:03	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AS **Lab ID: 40119378002** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	79-34-5	W
Tetrachloroethene	**27.7J**	ug/kg	63.7	26.5	1	08/10/15 08:00	08/10/15 18:03	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 18:03	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 18:03	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:03	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	121	%	49-157		1	08/10/15 08:00	08/10/15 18:03	1868-53-7	
Toluene-d8 (S)	135	%	61-148		1	08/10/15 08:00	08/10/15 18:03	2037-26-5	
4-Bromofluorobenzene (S)	116	%	53-134		1	08/10/15 08:00	08/10/15 18:03	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.8**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AE **Lab ID: 40119378003** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/11/15 09:47	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/11/15 09:47	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/11/15 09:47	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/11/15 09:47	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/11/15 09:47	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AE **Lab ID: 40119378003** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	79-34-5	W
Tetrachloroethene	**117**	ug/kg	62.7	26.1	1	08/10/15 08:00	08/11/15 09:47	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/11/15 09:47	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/11/15 09:47	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/11/15 09:47	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	142	%	49-157		1	08/10/15 08:00	08/11/15 09:47	1868-53-7	
Toluene-d8 (S)	156	%	61-148		1	08/10/15 08:00	08/11/15 09:47	2037-26-5	1q,S0
4-Bromofluorobenzene (S)	132	%	53-134		1	08/10/15 08:00	08/11/15 09:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.4**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AW **Lab ID: 40119378004** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 18:49	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 18:49	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 18:49	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 18:49	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 18:49	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: AW **Lab ID: 40119378004** Collected: 08/05/15 09:40 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 18:49	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 18:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 18:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	49-157		1	08/10/15 08:00	08/10/15 18:49	1868-53-7	
Toluene-d8 (S)	110	%	61-148		1	08/10/15 08:00	08/10/15 18:49	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	08/10/15 08:00	08/10/15 18:49	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BN **Lab ID: 40119378005** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 19:12	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 19:12	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 19:12	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 19:12	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 19:12	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BN **Lab ID: 40119378005** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	79-34-5	W
Tetrachloroethene	**118**	ug/kg	72.4	30.2	1	08/10/15 08:00	08/10/15 19:12	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 19:12	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 19:12	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	49-157		1	08/10/15 08:00	08/10/15 19:12	1868-53-7	
Toluene-d8 (S)	106	%	61-148		1	08/10/15 08:00	08/10/15 19:12	2037-26-5	
4-Bromofluorobenzene (S)	92	%	53-134		1	08/10/15 08:00	08/10/15 19:12	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.1**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BS **Lab ID: 40119378006** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 19:35	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 19:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 19:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 19:35	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 19:35	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BS **Lab ID: 40119378006** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	79-34-5	W
Tetrachloroethene	**3660**	ug/kg	72.4	30.1	1	08/10/15 08:00	08/10/15 19:35	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 19:35	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 19:35	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	49-157		1	08/10/15 08:00	08/10/15 19:35	1868-53-7	
Toluene-d8 (S)	112	%	61-148		1	08/10/15 08:00	08/10/15 19:35	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	08/10/15 08:00	08/10/15 19:35	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.1**	%	0.10	0.10	1		08/17/15 12:39		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BE **Lab ID: 40119378007** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/10/15 08:00	08/10/15 19:59	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/10/15 08:00	08/10/15 19:59	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/10/15 08:00	08/10/15 19:59	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/10/15 08:00	08/10/15 19:59	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/10/15 08:00	08/10/15 19:59	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BE **Lab ID: 40119378007** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	79-34-5	W
Tetrachloroethene	**667**	ug/kg	72.6	30.2	1	08/10/15 08:00	08/10/15 19:59	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/10/15 08:00	08/10/15 19:59	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/10/15 08:00	08/10/15 19:59	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/10/15 08:00	08/10/15 19:59	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	49-157		1	08/10/15 08:00	08/10/15 19:59	1868-53-7	
Toluene-d8 (S)	105	%	61-148		1	08/10/15 08:00	08/10/15 19:59	2037-26-5	
4-Bromofluorobenzene (S)	90	%	53-134		1	08/10/15 08:00	08/10/15 19:59	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.3**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BW **Lab ID: 40119378008** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 14:50	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 14:50	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 14:50	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 14:50	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 14:50	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: BW **Lab ID: 40119378008** Collected: 08/05/15 13:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	79-34-5	W
Tetrachloroethene	**87.1**	ug/kg	62.3	26.0	1	08/11/15 06:30	08/11/15 14:50	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 14:50	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 14:50	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 14:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	110	%	49-157		1	08/11/15 06:30	08/11/15 14:50	1868-53-7	
Toluene-d8 (S)	111	%	61-148		1	08/11/15 06:30	08/11/15 14:50	2037-26-5	
4-Bromofluorobenzene (S)	95	%	53-134		1	08/11/15 06:30	08/11/15 14:50	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.7**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CN **Lab ID: 40119378009** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 15:13	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 15:13	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 15:13	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 15:13	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 15:13	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CN **Lab ID: 40119378009** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	79-34-5	W
Tetrachloroethene	**146**	ug/kg	67.8	28.3	1	08/11/15 06:30	08/11/15 15:13	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 15:13	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 15:13	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:13	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	49-157		1	08/11/15 06:30	08/11/15 15:13	1868-53-7	
Toluene-d8 (S)	122	%	61-148		1	08/11/15 06:30	08/11/15 15:13	2037-26-5	
4-Bromofluorobenzene (S)	104	%	53-134		1	08/11/15 06:30	08/11/15 15:13	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.5**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CE **Lab ID: 40119378010** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 15:37	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 15:37	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 15:37	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 15:37	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 15:37	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CE **Lab ID: 40119378010** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	79-34-5	W
Tetrachloroethene	**70.0J**	ug/kg	75.8	31.6	1	08/11/15 06:30	08/11/15 15:37	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 15:37	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 15:37	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 15:37	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	49-157		1	08/11/15 06:30	08/11/15 15:37	1868-53-7	
Toluene-d8 (S)	114	%	61-148		1	08/11/15 06:30	08/11/15 15:37	2037-26-5	
4-Bromofluorobenzene (S)	96	%	53-134		1	08/11/15 06:30	08/11/15 15:37	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.8**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CW **Lab ID: 40119378011** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 16:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 16:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 16:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 16:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 16:00	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: CW **Lab ID: 40119378011** Collected: 08/06/15 09:00 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	79-34-5	W
Tetrachloroethene	**272**	ug/kg	71.4	29.8	1	08/11/15 06:30	08/11/15 16:00	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 16:00	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 16:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	104	%	49-157		1	08/11/15 06:30	08/11/15 16:00	1868-53-7	
Toluene-d8 (S)	119	%	61-148		1	08/11/15 06:30	08/11/15 16:00	2037-26-5	
4-Bromofluorobenzene (S)	99	%	53-134		1	08/11/15 06:30	08/11/15 16:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.0**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DN **Lab ID: 40119378012** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 16:23	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 16:23	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 16:23	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 16:23	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 16:23	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DN **Lab ID: 40119378012** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	79-34-5	W
Tetrachloroethene	**170**	ug/kg	71.6	29.9	1	08/11/15 06:30	08/11/15 16:23	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 16:23	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 16:23	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:23	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	49-157		1	08/11/15 06:30	08/11/15 16:23	1868-53-7	
Toluene-d8 (S)	111	%	61-148		1	08/11/15 06:30	08/11/15 16:23	2037-26-5	
4-Bromofluorobenzene (S)	94	%	53-134		1	08/11/15 06:30	08/11/15 16:23	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.3**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DS **Lab ID: 40119378013** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 16:46	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 16:46	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 16:46	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 16:46	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 16:46	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DS **Lab ID: 40119378013** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	79-34-5	W
Tetrachloroethene	**598**	ug/kg	73.8	30.7	1	08/11/15 06:30	08/11/15 16:46	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 16:46	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 16:46	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 16:46	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	109	%	49-157		1	08/11/15 06:30	08/11/15 16:46	1868-53-7	
Toluene-d8 (S)	120	%	61-148		1	08/11/15 06:30	08/11/15 16:46	2037-26-5	
4-Bromofluorobenzene (S)	102	%	53-134		1	08/11/15 06:30	08/11/15 16:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.7**	%	0.10	0.10	1		08/17/15 12:40		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DE **Lab ID: 40119378014** Collected: 08/06/15 10:20 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 17:09	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 17:09	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 17:09	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 17:09	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 17:09	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DE **Lab ID: 40119378014** Collected: 08/06/15 10:20 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	79-34-5	W
Tetrachloroethene	**128**	ug/kg	69.6	29.0	1	08/11/15 06:30	08/11/15 17:09	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 17:09	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 17:09	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	49-157		1	08/11/15 06:30	08/11/15 17:09	1868-53-7	
Toluene-d8 (S)	120	%	61-148		1	08/11/15 06:30	08/11/15 17:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%	53-134		1	08/11/15 06:30	08/11/15 17:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.8**	%	0.10	0.10	1		08/17/15 14:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DW **Lab ID: 40119378015** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	08/11/15 06:30	08/11/15 17:32	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	08/11/15 06:30	08/11/15 17:32	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	08/11/15 06:30	08/11/15 17:32	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	08/11/15 06:30	08/11/15 17:32	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	08/11/15 06:30	08/11/15 17:32	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE
Pace Project No.: 40119378

Sample: DW **Lab ID: 40119378015** Collected: 08/06/15 08:15 Received: 08/07/15 15:10 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								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	79-34-5	W
Tetrachloroethene	**61.1J**	ug/kg	68.3	28.4	1	08/11/15 06:30	08/11/15 17:32	127-18-4	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	08/11/15 06:30	08/11/15 17:32	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	08/11/15 06:30	08/11/15 17:32	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	08/11/15 06:30	08/11/15 17:32	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	49-157		1	08/11/15 06:30	08/11/15 17:32	1868-53-7	
Toluene-d8 (S)	118	%	61-148		1	08/11/15 06:30	08/11/15 17:32	2037-26-5	
4-Bromofluorobenzene (S)	102	%	53-134		1	08/11/15 06:30	08/11/15 17:32	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.1**	%	0.10	0.10	1		08/17/15 14:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

QC Batch: MSV/29723 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119378001, 40119378002, 40119378003, 40119378004, 40119378005, 40119378006, 40119378007

METHOD BLANK: 1204558 Matrix: Solid
Associated Lab Samples: 40119378001, 40119378002, 40119378003, 40119378004, 40119378005, 40119378006, 40119378007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/10/15 10:19	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/10/15 10:19	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/10/15 10:19	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/10/15 10:19	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/10/15 10:19	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/10/15 10:19	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/10/15 10:19	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/10/15 10:19	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/10/15 10:19	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/10/15 10:19	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/10/15 10:19	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/10/15 10:19	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/10/15 10:19	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/10/15 10:19	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/10/15 10:19	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/10/15 10:19	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/10/15 10:19	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/10/15 10:19	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/10/15 10:19	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/10/15 10:19	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/10/15 10:19	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/10/15 10:19	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/10/15 10:19	
Benzene	ug/kg	<9.2	20.0	08/10/15 10:19	
Bromobenzene	ug/kg	<20.6	50.0	08/10/15 10:19	
Bromochloromethane	ug/kg	<21.4	50.0	08/10/15 10:19	
Bromodichloromethane	ug/kg	<9.8	50.0	08/10/15 10:19	
Bromoform	ug/kg	<19.8	50.0	08/10/15 10:19	
Bromomethane	ug/kg	<69.9	250	08/10/15 10:19	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/10/15 10:19	
Chlorobenzene	ug/kg	<14.8	50.0	08/10/15 10:19	
Chloroethane	ug/kg	<67.0	250	08/10/15 10:19	
Chloroform	ug/kg	<46.4	250	08/10/15 10:19	
Chloromethane	ug/kg	<20.4	50.0	08/10/15 10:19	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/10/15 10:19	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/10/15 10:19	
Dibromochloromethane	ug/kg	<17.9	50.0	08/10/15 10:19	
Dibromomethane	ug/kg	<19.3	50.0	08/10/15 10:19	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/10/15 10:19	
Diisopropyl ether	ug/kg	<17.7	50.0	08/10/15 10:19	
Ethylbenzene	ug/kg	<12.4	50.0	08/10/15 10:19	

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

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

METHOD BLANK: 1204558 Matrix: Solid
Associated Lab Samples: 40119378001, 40119378002, 40119378003, 40119378004, 40119378005, 40119378006, 40119378007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/10/15 10:19	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/10/15 10:19	
m&p-Xylene	ug/kg	<34.4	100	08/10/15 10:19	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/10/15 10:19	
Methylene Chloride	ug/kg	<16.2	50.0	08/10/15 10:19	
n-Butylbenzene	ug/kg	<10.5	50.0	08/10/15 10:19	
n-Propylbenzene	ug/kg	<11.6	50.0	08/10/15 10:19	
Naphthalene	ug/kg	<40.0	250	08/10/15 10:19	
o-Xylene	ug/kg	<14.0	50.0	08/10/15 10:19	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/10/15 10:19	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/10/15 10:19	
Styrene	ug/kg	<9.0	50.0	08/10/15 10:19	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/10/15 10:19	
Tetrachloroethene	ug/kg	<12.9	50.0	08/10/15 10:19	
Toluene	ug/kg	<11.2	50.0	08/10/15 10:19	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/10/15 10:19	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/10/15 10:19	
Trichloroethene	ug/kg	<23.6	50.0	08/10/15 10:19	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/10/15 10:19	
Vinyl chloride	ug/kg	<21.1	50.0	08/10/15 10:19	
4-Bromofluorobenzene (S)	%	90	53-134	08/10/15 10:19	
Dibromofluoromethane (S)	%	99	49-157	08/10/15 10:19	
Toluene-d8 (S)	%	104	61-148	08/10/15 10:19	

LABORATORY CONTROL SAMPLE & LCSD: 1204559 1204560

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	2500	2140	2180	86	87	70-130	2	20	
1,1,1-Trichloroethane	ug/kg	2500	2050	2180	82	87	70-130	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2340	2380	93	95	70-130	2	20	
1,1,2-Trichloroethane	ug/kg	2500	2470	2460	99	99	70-130	0	20	
1,1-Dichloroethane	ug/kg	2500	2510	2550	100	102	70-130	2	20	
1,1-Dichloroethene	ug/kg	2500	2390	2540	95	102	70-132	6	20	
1,1-Dichloropropene	ug/kg	2500	2260	2300	91	92	67-144	2	20	
1,2,3-Trichlorobenzene	ug/kg	2500	2260	2490	91	100	70-130	10	20	
1,2,3-Trichloropropane	ug/kg	2500	2480	2480	99	99	70-130	0	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2240	2520	90	101	70-130	12	20	
1,2,4-Trimethylbenzene	ug/kg	2500	2320	2360	93	95	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1750	1960	70	78	45-150	11	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	2360	94	94	70-130	0	20	
1,2-Dichlorobenzene	ug/kg	2500	2370	2420	95	97	70-130	2	20	
1,2-Dichloroethane	ug/kg	2500	2320	2380	93	95	70-134	3	20	
1,2-Dichloropropane	ug/kg	2500	2590	2600	104	104	70-130	1	20	
1,3,5-Trimethylbenzene	ug/kg	2500	2340	2420	94	97	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

LABORATORY CONTROL SAMPLE & LCSD: 1204559 1204560

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,3-Dichlorobenzene	ug/kg	2500	2350	2450	94	98	70-130	4	20	
1,3-Dichloropropane	ug/kg	2500	2390	2410	96	96	70-130	1	20	
1,4-Dichlorobenzene	ug/kg	2500	2340	2380	93	95	70-130	2	20	
2,2-Dichloropropane	ug/kg	2500	1940	2070	77	83	52-130	6	20	
2-Chlorotoluene	ug/kg	2500	2240	2260	90	91	70-130	1	20	
4-Chlorotoluene	ug/kg	2500	2400	2400	96	96	70-130	0	20	
Benzene	ug/kg	2500	2430	2440	97	98	70-130	1	20	
Bromobenzene	ug/kg	2500	2410	2460	96	98	70-130	2	20	
Bromochloromethane	ug/kg	2500	2560	2500	102	100	70-130	2	20	
Bromodichloromethane	ug/kg	2500	2150	2200	86	88	70-130	2	20	
Bromoform	ug/kg	2500	1910	1940	76	77	48-130	1	20	
Bromomethane	ug/kg	2500	2370	2470	95	99	70-169	4	20	
Carbon tetrachloride	ug/kg	2500	1900	1980	76	79	67-130	4	20	
Chlorobenzene	ug/kg	2500	2440	2420	98	97	70-130	1	20	
Chloroethane	ug/kg	2500	2280	2390	91	95	70-191	4	20	
Chloroform	ug/kg	2500	2290	2370	92	95	70-130	3	20	
Chloromethane	ug/kg	2500	2290	2370	92	95	52-132	3	20	
cis-1,2-Dichloroethene	ug/kg	2500	2440	2440	98	98	70-130	0	20	
cis-1,3-Dichloropropene	ug/kg	2500	2220	2290	89	91	70-130	3	20	
Dibromochloromethane	ug/kg	2500	1980	1990	79	79	65-130	0	20	
Dibromomethane	ug/kg	2500	2470	2480	99	99	70-130	0	20	
Dichlorodifluoromethane	ug/kg	2500	1530	1600	61	64	12-150	4	20	
Diisopropyl ether	ug/kg	2500	2660	2700	107	108	59-136	1	20	
Ethylbenzene	ug/kg	2500	2390	2360	96	94	70-130	1	20	
Hexachloro-1,3-butadiene	ug/kg	2500	2250	2460	90	98	70-130	9	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2240	2240	89	90	70-130	0	20	
m&p-Xylene	ug/kg	5000	5020	4860	100	97	70-130	3	20	
Methyl-tert-butyl ether	ug/kg	2500	2420	2490	97	100	70-130	3	20	
Methylene Chloride	ug/kg	2500	2590	2550	104	102	70-131	2	20	
n-Butylbenzene	ug/kg	2500	2270	2380	91	95	70-130	4	20	
n-Propylbenzene	ug/kg	2500	2290	2330	92	93	70-130	2	20	
Naphthalene	ug/kg	2500	2240	2360	90	94	70-130	5	20	
o-Xylene	ug/kg	2500	2450	2400	98	96	70-130	2	20	
p-Isopropyltoluene	ug/kg	2500	2330	2360	93	94	70-130	1	20	
sec-Butylbenzene	ug/kg	2500	2170	2290	87	92	70-130	6	20	
Styrene	ug/kg	2500	2450	2470	98	99	70-130	1	20	
tert-Butylbenzene	ug/kg	2500	2340	2290	93	92	70-130	2	20	
Tetrachloroethene	ug/kg	2500	2300	2380	92	95	70-130	4	20	
Toluene	ug/kg	2500	2470	2440	99	98	70-130	1	20	
trans-1,2-Dichloroethene	ug/kg	2500	2600	2640	104	106	69-130	2	20	
trans-1,3-Dichloropropene	ug/kg	2500	1980	2030	79	81	65-130	3	20	
Trichloroethene	ug/kg	2500	2380	2350	95	94	70-130	1	20	
Trichlorofluoromethane	ug/kg	2500	2010	2030	80	81	50-150	1	20	
Vinyl chloride	ug/kg	2500	2440	2480	98	99	67-134	2	20	
4-Bromofluorobenzene (S)	%				88	89	53-134			
Dibromofluoromethane (S)	%				101	102	49-157			
Toluene-d8 (S)	%				101	101	61-148			

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

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

QC Batch: MSV/29730 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40119378008, 40119378009, 40119378010, 40119378011, 40119378012, 40119378013, 40119378014, 40119378015

METHOD BLANK: 1204772 Matrix: Solid
Associated Lab Samples: 40119378008, 40119378009, 40119378010, 40119378011, 40119378012, 40119378013, 40119378014, 40119378015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/11/15 12:31	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/11/15 12:31	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/11/15 12:31	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/11/15 12:31	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/11/15 12:31	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/11/15 12:31	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/11/15 12:31	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/11/15 12:31	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/11/15 12:31	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/11/15 12:31	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/11/15 12:31	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/11/15 12:31	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/11/15 12:31	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/11/15 12:31	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/11/15 12:31	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/11/15 12:31	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/11/15 12:31	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/11/15 12:31	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/11/15 12:31	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/11/15 12:31	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/11/15 12:31	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/11/15 12:31	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/11/15 12:31	
Benzene	ug/kg	<9.2	20.0	08/11/15 12:31	
Bromobenzene	ug/kg	<20.6	50.0	08/11/15 12:31	
Bromochloromethane	ug/kg	<21.4	50.0	08/11/15 12:31	
Bromodichloromethane	ug/kg	<9.8	50.0	08/11/15 12:31	
Bromoform	ug/kg	<19.8	50.0	08/11/15 12:31	
Bromomethane	ug/kg	<69.9	250	08/11/15 12:31	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/11/15 12:31	
Chlorobenzene	ug/kg	<14.8	50.0	08/11/15 12:31	
Chloroethane	ug/kg	<67.0	250	08/11/15 12:31	
Chloroform	ug/kg	<46.4	250	08/11/15 12:31	
Chloromethane	ug/kg	<20.4	50.0	08/11/15 12:31	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/11/15 12:31	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/11/15 12:31	
Dibromochloromethane	ug/kg	<17.9	50.0	08/11/15 12:31	
Dibromomethane	ug/kg	<19.3	50.0	08/11/15 12:31	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/11/15 12:31	
Diisopropyl ether	ug/kg	<17.7	50.0	08/11/15 12:31	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

METHOD BLANK: 1204772 Matrix: Solid

Associated Lab Samples: 40119378008, 40119378009, 40119378010, 40119378011, 40119378012, 40119378013, 40119378014, 40119378015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	08/11/15 12:31	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/11/15 12:31	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/11/15 12:31	
m&p-Xylene	ug/kg	<34.4	100	08/11/15 12:31	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/11/15 12:31	
Methylene Chloride	ug/kg	<16.2	50.0	08/11/15 12:31	
n-Butylbenzene	ug/kg	<10.5	50.0	08/11/15 12:31	
n-Propylbenzene	ug/kg	<11.6	50.0	08/11/15 12:31	
Naphthalene	ug/kg	<40.0	250	08/11/15 12:31	
o-Xylene	ug/kg	<14.0	50.0	08/11/15 12:31	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/11/15 12:31	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/11/15 12:31	
Styrene	ug/kg	<9.0	50.0	08/11/15 12:31	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/11/15 12:31	
Tetrachloroethene	ug/kg	<12.9	50.0	08/11/15 12:31	
Toluene	ug/kg	<11.2	50.0	08/11/15 12:31	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/11/15 12:31	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/11/15 12:31	
Trichloroethene	ug/kg	<23.6	50.0	08/11/15 12:31	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/11/15 12:31	
Vinyl chloride	ug/kg	<21.1	50.0	08/11/15 12:31	
4-Bromofluorobenzene (S)	%	87	53-134	08/11/15 12:31	
Dibromofluoromethane (S)	%	95	49-157	08/11/15 12:31	
Toluene-d8 (S)	%	104	61-148	08/11/15 12:31	

LABORATORY CONTROL SAMPLE & LCSD: 1204773 1204774

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	1860	2070	74	83	70-130	11	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2270	2400	91	96	70-130	6	20	
1,1,2-Trichloroethane	ug/kg	2500	2450	2610	98	104	70-130	7	20	
1,1-Dichloroethane	ug/kg	2500	2350	2530	94	101	70-130	7	20	
1,1-Dichloroethene	ug/kg	2500	2320	2410	93	97	70-132	4	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2330	2580	93	103	70-130	10	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1570	1770	63	71	45-150	12	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	2570	94	103	70-130	9	20	
1,2-Dichlorobenzene	ug/kg	2500	2450	2640	98	106	70-130	8	20	
1,2-Dichloroethane	ug/kg	2500	2190	2420	88	97	70-134	10	20	
1,2-Dichloropropane	ug/kg	2500	2700	2910	108	116	70-130	7	20	
1,3-Dichlorobenzene	ug/kg	2500	2420	2590	97	103	70-130	7	20	
1,4-Dichlorobenzene	ug/kg	2500	2390	2600	96	104	70-130	8	20	
Benzene	ug/kg	2500	2480	2770	99	111	70-130	11	20	
Bromodichloromethane	ug/kg	2500	1940	2210	77	89	70-130	13	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

LABORATORY CONTROL SAMPLE & LCSD: 1204773 1204774

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Bromoform	ug/kg	2500	1660	1870	66	75	48-130	12	20	
Bromomethane	ug/kg	2500	2270	2590	91	104	70-169	13	20	
Carbon tetrachloride	ug/kg	2500	1760	1940	70	77	67-130	10	20	
Chlorobenzene	ug/kg	2500	2530	2730	101	109	70-130	7	20	
Chloroethane	ug/kg	2500	2400	2550	96	102	70-191	6	20	
Chloroform	ug/kg	2500	2160	2440	87	97	70-130	12	20	
Chloromethane	ug/kg	2500	2360	2470	94	99	52-132	5	20	
cis-1,2-Dichloroethene	ug/kg	2500	2250	2500	90	100	70-130	10	20	
cis-1,3-Dichloropropene	ug/kg	2500	2070	2240	83	90	70-130	8	20	
Dibromochloromethane	ug/kg	2500	1880	2100	75	84	65-130	11	20	
Dichlorodifluoromethane	ug/kg	2500	1300	1330	52	53	12-150	3	20	
Ethylbenzene	ug/kg	2500	2440	2620	97	105	70-130	7	20	
Isopropylbenzene (Cumene)	ug/kg	2500	2460	2620	98	105	70-130	6	20	
m&p-Xylene	ug/kg	5000	5080	5500	102	110	70-130	8	20	
Methyl-tert-butyl ether	ug/kg	2500	2260	2390	91	96	70-130	6	20	
Methylene Chloride	ug/kg	2500	2480	2660	99	106	70-131	7	20	
o-Xylene	ug/kg	2500	2590	2740	104	110	70-130	6	20	
Styrene	ug/kg	2500	2580	2750	103	110	70-130	7	20	
Tetrachloroethene	ug/kg	2500	2440	2550	98	102	70-130	4	20	
Toluene	ug/kg	2500	2610	2790	104	112	70-130	7	20	
trans-1,2-Dichloroethene	ug/kg	2500	2400	2700	96	108	69-130	12	20	
trans-1,3-Dichloropropene	ug/kg	2500	1910	2040	76	81	65-130	6	20	
Trichloroethene	ug/kg	2500	2320	2500	93	100	70-130	7	20	
Trichlorofluoromethane	ug/kg	2500	1850	1960	74	78	50-150	6	20	
Vinyl chloride	ug/kg	2500	2270	2400	91	96	67-134	6	20	
4-Bromofluorobenzene (S)	%				91	89	53-134			
Dibromofluoromethane (S)	%				97	101	49-157			
Toluene-d8 (S)	%				105	106	61-148			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

QC Batch: PMST/11643 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119378001, 40119378002, 40119378003, 40119378004, 40119378005, 40119378006, 40119378007, 40119378008, 40119378009, 40119378010, 40119378011, 40119378012, 40119378013

SAMPLE DUPLICATE: 1207429

Parameter	Units	40119375023 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.4	16.5	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE
Pace Project No.: 40119378

QC Batch: PMST/11645
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40119378014, 40119378015

SAMPLE DUPLICATE: 1207547

Parameter	Units	40119676002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.0	20.0	0	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 14-1138 RICE
Pace Project No.: 40119378

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/29724

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

ANALYTE QUALIFIERS

1q	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by re-analysis).
S0	Surrogate recovery outside laboratory control limits.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-1138 RICE
Pace Project No.: 40119378

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40119378001	**AN**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378002	**AS**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378003	**AE**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378004	**AW**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378005	**BN**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378006	**BS**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378007	**BE**	EPA 5035/5030B	MSV/29723	EPA 8260	MSV/29724
40119378008	**BW**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378009	**CN**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378010	**CE**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378011	**CW**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378012	**DN**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378013	**DS**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378014	**DE**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378015	**DW**	EPA 5035/5030B	MSV/29730	EPA 8260	MSV/29738
40119378001	**AN**	ASTM D2974-87	PMST/11643		
40119378002	**AS**	ASTM D2974-87	PMST/11643		
40119378003	**AE**	ASTM D2974-87	PMST/11643		
40119378004	**AW**	ASTM D2974-87	PMST/11643		
40119378005	**BN**	ASTM D2974-87	PMST/11643		
40119378006	**BS**	ASTM D2974-87	PMST/11643		
40119378007	**BE**	ASTM D2974-87	PMST/11643		
40119378008	**BW**	ASTM D2974-87	PMST/11643		
40119378009	**CN**	ASTM D2974-87	PMST/11643		
40119378010	**CE**	ASTM D2974-87	PMST/11643		
40119378011	**CW**	ASTM D2974-87	PMST/11643		
40119378012	**DN**	ASTM D2974-87	PMST/11643		
40119378013	**DS**	ASTM D2974-87	PMST/11643		
40119378014	**DE**	ASTM D2974-87	PMST/11645		
40119378015	**DW**	ASTM D2974-87	PMST/11645		

UPPER MIDWEST REGION
MN: 612-607-1700 **WI:** 920-469-2436

Pace Analytical®
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EM

40119378

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

(Please Print Clearly)	
Company Name:	Fehr-Graham
Branch/Location:	Plymouth, WI
Project Contact:	Matt Dahlem
Phone:	(920) 892-2444
Project Number:	14-1138
Project Name:	Rice
Project State:	WI
Sampled By (Print):	Justin Schuenemann
Sampled By (Sign):	Justin Schuenemann
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Matt Dahlem
Mail To Company:	Fehr-Graham
Mail To Address:	1237 Pilgrim Rd. Plymouth, WI 53073
Invoice To Contact:	Matt Dahlem
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	VOC	Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	AN	8/5	0940	S	N	F	X	X		1-40zpA, 1-40mlVF	
002	AS										
003	AE										
004	AW										
005	BN		1300								
006	BS										
007	BE										
008	BW										
009	CN	8/6	0900								
010	CE										
011	CW										
012	DN		0815								
013	DS										

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:	Date/Time:	Received By:	Date/Time:
Justin Schuenemann	8/7/15	Melissa Venema	8/7/15 1255
Melissa Venema	8/7/15 1510	Mai McKay	8-7-15 1510

PACE Project No.: 40119378

Receipt Temp = 20.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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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

(Please Print Clearly)	
Company Name:	Fehr-Graham
Branch/Location:	Plymouth, WI
Project Contact:	Matt Dahlem
Phone:	(920) 892-2444
Project Number:	14-1138
Project Name:	Rice
Project State:	WI
Sampled By (Print):	Justin Schuenemann
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Matt Dahlem
Mail To Company:	Fehr Graham
Mail To Address:	1237 Pilgrim Rd Plymouth, WI 53073
Invoice To Contact:	Matt Dahlem
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: VOC	Analyses Requested: Moisture	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N					
					F	A					
014	DE	8/6	1020	S		X	X			1-4oz pA, 1-40mlVF	
015	DW	8/6	0815	S		X	X				

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:	Date/Time:	Received By:	Date/Time:
	8/7/15	Melissa Venema	8/7/15 1255
Melissa Venema	8/7/15 1510	Mark McKay	8-7-15 1510

PACE Project No.: 40169378
Receipt Temp = 2.01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Fehr - Graham

Project #: **WO#: 40119378**

40119378

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☑ Pace Other: _____

Tracking #: _____

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 na **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: Aug 7, 15
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☑Yes	☐No ☐N/A	8.
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
-Pace IR Containers Used:	☐Yes	☐No ☑N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No ☑N/A	14.
Trip Blank Present:	☐Yes	☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CW **Date:** 8/7/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 28, 2016

Matt Dahlem
Fehr Graham Engineering and Environmental
1237 Pilgrim Road
Plymouth, WI 53073

RE: Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Dear Matt Dahlem:
Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

cc: Megan Hansen, Fehr Graham Engineering and Environmental

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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Green Bay, WI 54302
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SAMPLE SUMMARY

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40143823001	**MW-1**	Water	12/22/16 09:15	12/22/16 14:10
40143823002	**PZ-1**	Water	12/22/16 09:20	12/22/16 14:10
40143823003	**MW-2**	Water	12/22/16 09:25	12/22/16 14:10
40143823004	**SMW-3**	Water	12/22/16 09:30	12/22/16 14:10
40143823005	**MW-4**	Water	12/22/16 09:35	12/22/16 14:10
40143823006	**MW-5**	Water	12/22/16 09:40	12/22/16 14:10
40143823007	**MW-6**	Water	12/22/16 09:45	12/22/16 14:10
40143823008	**MW-7**	Water	12/22/16 09:50	12/22/16 14:10
40143823009	**MW-8**	Water	12/22/16 09:55	12/22/16 14:10
40143823010	**MW-9**	Water	12/22/16 10:00	12/22/16 14:10
40143823011	**GEC TW-4**	Water	12/22/16 10:05	12/22/16 14:10
40143823012	**TB**	Water	12/22/16 00:00	12/22/16 14:10

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SAMPLE ANALYTE COUNT

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40143823001	**MW-1**	EPA 8260	MDS	64	PASI-G
40143823002	**PZ-1**	EPA 8260	MDS	64	PASI-G
40143823003	**MW-2**	EPA 8260	MDS	64	PASI-G
40143823004	**SMW-3**	EPA 8260	MDS	64	PASI-G
40143823005	**MW-4**	EPA 8260	MDS	64	PASI-G
40143823006	**MW-5**	EPA 8260	MDS	64	PASI-G
40143823007	**MW-6**	EPA 8260	MDS	64	PASI-G
40143823008	**MW-7**	EPA 8260	MDS	64	PASI-G
40143823009	**MW-8**	EPA 8260	MDS	64	PASI-G
40143823010	**MW-9**	EPA 8260	MDS	64	PASI-G
40143823011	**GEC TW-4**	EPA 8260	MDS	64	PASI-G
40143823012	**TB**	EPA 8260	MDS	64	PASI-G

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SUMMARY OF DETECTION

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40143823001	**MW-1**					
EPA 8260	Tetrachloroethene	5.8	ug/L	1.0	12/27/16 17:24	
40143823004	**SMW-3**					
EPA 8260	cis-1,2-Dichloroethene	145	ug/L	20.0	12/27/16 18:49	
EPA 8260	trans-1,2-Dichloroethene	10.0J	ug/L	20.0	12/27/16 18:49	
EPA 8260	Tetrachloroethene	3680	ug/L	20.0	12/27/16 18:49	
EPA 8260	Trichloroethene	785	ug/L	20.0	12/27/16 18:49	
40143823005	**MW-4**					
EPA 8260	Tetrachloroethene	0.63J	ug/L	1.0	12/27/16 17:46	
40143823007	**MW-6**					
EPA 8260	p-Isopropyltoluene	0.74J	ug/L	1.0	12/28/16 10:14	
40143823008	**MW-7**					
EPA 8260	Tetrachloroethene	2.0	ug/L	1.0	12/27/16 18:07	
40143823010	**MW-9**					
EPA 8260	Trichloroethene	0.67J	ug/L	1.0	12/27/16 18:28	

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-1 **Lab ID: 40143823001** Collected: 12/22/16 09:15 Received: 12/22/16 14:10 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		12/27/16 17:24	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:24	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 17:24	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 17:24	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:24	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:24	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 17:24	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 17:24	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 17:24	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:24	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:24	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 17:24	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 17:24	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 17:24	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 17:24	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 17:24	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 17:24	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 17:24	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:24	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 17:24	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 17:24	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:24	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 17:24	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 17:24	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:24	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 17:24	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 17:24	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:24	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-1 **Lab ID: 40143823001** Collected: 12/22/16 09:15 Received: 12/22/16 14:10 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		12/27/16 17:24	79-34-5	
Tetrachloroethene	**5.8**	ug/L	1.0	0.50	1		12/27/16 17:24	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 17:24	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:24	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 17:24	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 17:24	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:24	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:24	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 17:24	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/27/16 17:24	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 17:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/27/16 17:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: PZ-1 **Lab ID: 40143823002** Collected: 12/22/16 09:20 Received: 12/22/16 14:10 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		12/27/16 12:49	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:49	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 12:49	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 12:49	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:49	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:49	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 12:49	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 12:49	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 12:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:49	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:49	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 12:49	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 12:49	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 12:49	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 12:49	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 12:49	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 12:49	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 12:49	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:49	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 12:49	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 12:49	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:49	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 12:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 12:49	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:49	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 12:49	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 12:49	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:49	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: PZ-1 **Lab ID: 40143823002** Collected: 12/22/16 09:20 Received: 12/22/16 14:10 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		12/27/16 12:49	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 12:49	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:49	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 12:49	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 12:49	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:49	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:49	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 12:49	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		12/27/16 12:49	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		12/27/16 12:49	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/27/16 12:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-2 **Lab ID: 40143823003** Collected: 12/22/16 09:25 Received: 12/22/16 14:10 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		12/27/16 13:10	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:10	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 13:10	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 13:10	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:10	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:10	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 13:10	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:10	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 13:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:10	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:10	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 13:10	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 13:10	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 13:10	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:10	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 13:10	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:10	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:10	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:10	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 13:10	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 13:10	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:10	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:10	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 13:10	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:10	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:10	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:10	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:10	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-2 **Lab ID: 40143823003** Collected: 12/22/16 09:25 Received: 12/22/16 14:10 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		12/27/16 13:10	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:10	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:10	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 13:10	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 13:10	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:10	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:10	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 13:10	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		12/27/16 13:10	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 13:10	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/27/16 13:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: SMW-3 **Lab ID: 40143823004** Collected: 12/22/16 09:30 Received: 12/22/16 14:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	71-43-2	
Bromobenzene	**<4.6**	ug/L	20.0	4.6	20		12/27/16 18:49	108-86-1	
Bromochloromethane	**<6.8**	ug/L	20.0	6.8	20		12/27/16 18:49	74-97-5	
Bromodichloromethane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	75-27-4	
Bromoform	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	75-25-2	
Bromomethane	**<48.7**	ug/L	100	48.7	20		12/27/16 18:49	74-83-9	
n-Butylbenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	104-51-8	
sec-Butylbenzene	**<43.7**	ug/L	100	43.7	20		12/27/16 18:49	135-98-8	
tert-Butylbenzene	**<3.6**	ug/L	20.0	3.6	20		12/27/16 18:49	98-06-6	
Carbon tetrachloride	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	56-23-5	
Chlorobenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	108-90-7	
Chloroethane	**<7.5**	ug/L	20.0	7.5	20		12/27/16 18:49	75-00-3	
Chloroform	**<50.0**	ug/L	100	50.0	20		12/27/16 18:49	67-66-3	
Chloromethane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	74-87-3	
2-Chlorotoluene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	95-49-8	
4-Chlorotoluene	**<4.3**	ug/L	20.0	4.3	20		12/27/16 18:49	106-43-4	
1,2-Dibromo-3-chloropropane	**<43.3**	ug/L	100	43.3	20		12/27/16 18:49	96-12-8	
Dibromochloromethane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	124-48-1	
1,2-Dibromoethane (EDB)	**<3.6**	ug/L	20.0	3.6	20		12/27/16 18:49	106-93-4	
Dibromomethane	**<8.5**	ug/L	20.0	8.5	20		12/27/16 18:49	74-95-3	
1,2-Dichlorobenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	95-50-1	
1,3-Dichlorobenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	541-73-1	
1,4-Dichlorobenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	106-46-7	
Dichlorodifluoromethane	**<4.5**	ug/L	20.0	4.5	20		12/27/16 18:49	75-71-8	
1,1-Dichloroethane	**<4.8**	ug/L	20.0	4.8	20		12/27/16 18:49	75-34-3	
1,2-Dichloroethane	**<3.4**	ug/L	20.0	3.4	20		12/27/16 18:49	107-06-2	
1,1-Dichloroethene	**<8.2**	ug/L	20.0	8.2	20		12/27/16 18:49	75-35-4	
cis-1,2-Dichloroethene	**145**	ug/L	20.0	5.1	20		12/27/16 18:49	156-59-2	
trans-1,2-Dichloroethene	**10.0J**	ug/L	20.0	5.1	20		12/27/16 18:49	156-60-5	
1,2-Dichloropropane	**<4.7**	ug/L	20.0	4.7	20		12/27/16 18:49	78-87-5	
1,3-Dichloropropane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	142-28-9	
2,2-Dichloropropane	**<9.7**	ug/L	20.0	9.7	20		12/27/16 18:49	594-20-7	
1,1-Dichloropropene	**<8.8**	ug/L	20.0	8.8	20		12/27/16 18:49	563-58-6	
cis-1,3-Dichloropropene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	10061-01-5	
trans-1,3-Dichloropropene	**<4.6**	ug/L	20.0	4.6	20		12/27/16 18:49	10061-02-6	
Diisopropyl ether	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	108-20-3	
Ethylbenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	100-41-4	
Hexachloro-1,3-butadiene	**<42.1**	ug/L	100	42.1	20		12/27/16 18:49	87-68-3	
Isopropylbenzene (Cumene)	**<2.9**	ug/L	20.0	2.9	20		12/27/16 18:49	98-82-8	
p-Isopropyltoluene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	99-87-6	
Methylene Chloride	**<4.7**	ug/L	20.0	4.7	20		12/27/16 18:49	75-09-2	
Methyl-tert-butyl ether	**<3.5**	ug/L	20.0	3.5	20		12/27/16 18:49	1634-04-4	
Naphthalene	**<50.0**	ug/L	100	50.0	20		12/27/16 18:49	91-20-3	
n-Propylbenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	103-65-1	
Styrene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	100-42-5	
1,1,1,2-Tetrachloroethane	**<3.6**	ug/L	20.0	3.6	20		12/27/16 18:49	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: SMW-3 **Lab ID: 40143823004** Collected: 12/22/16 09:30 Received: 12/22/16 14:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<5.0**	ug/L	20.0	5.0	20		12/27/16 18:49	79-34-5	
Tetrachloroethene	**3680**	ug/L	20.0	10.0	20		12/27/16 18:49	127-18-4	
Toluene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	108-88-3	
1,2,3-Trichlorobenzene	**<42.7**	ug/L	100	42.7	20		12/27/16 18:49	87-61-6	
1,2,4-Trichlorobenzene	**<44.2**	ug/L	100	44.2	20		12/27/16 18:49	120-82-1	
1,1,1-Trichloroethane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	71-55-6	
1,1,2-Trichloroethane	**<3.9**	ug/L	20.0	3.9	20		12/27/16 18:49	79-00-5	
Trichloroethene	**785**	ug/L	20.0	6.6	20		12/27/16 18:49	79-01-6	
Trichlorofluoromethane	**<3.7**	ug/L	20.0	3.7	20		12/27/16 18:49	75-69-4	
1,2,3-Trichloropropane	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	96-18-4	
1,2,4-Trimethylbenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	95-63-6	
1,3,5-Trimethylbenzene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	108-67-8	
Vinyl chloride	**<3.5**	ug/L	20.0	3.5	20		12/27/16 18:49	75-01-4	
m&p-Xylene	**<20.0**	ug/L	40.0	20.0	20		12/27/16 18:49	179601-23-1	
o-Xylene	**<10.0**	ug/L	20.0	10.0	20		12/27/16 18:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		20		12/27/16 18:49	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		20		12/27/16 18:49	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		12/27/16 18:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-4 **Lab ID: 40143823005** Collected: 12/22/16 09:35 Received: 12/22/16 14:10 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		12/27/16 17:46	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:46	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 17:46	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 17:46	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:46	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:46	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 17:46	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 17:46	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 17:46	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:46	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:46	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 17:46	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 17:46	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 17:46	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 17:46	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 17:46	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 17:46	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 17:46	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:46	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 17:46	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 17:46	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:46	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 17:46	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 17:46	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 17:46	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 17:46	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 17:46	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:46	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-4 **Lab ID: 40143823005** Collected: 12/22/16 09:35 Received: 12/22/16 14:10 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		12/27/16 17:46	79-34-5	
Tetrachloroethene	**0.63J**	ug/L	1.0	0.50	1		12/27/16 17:46	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 17:46	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 17:46	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 17:46	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 17:46	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:46	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 17:46	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 17:46	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 17:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/27/16 17:46	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/27/16 17:46	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/27/16 17:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-5 **Lab ID: 40143823006** Collected: 12/22/16 09:40 Received: 12/22/16 14:10 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		12/27/16 13:31	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:31	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 13:31	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 13:31	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:31	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:31	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 13:31	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:31	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 13:31	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:31	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:31	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 13:31	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 13:31	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 13:31	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:31	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 13:31	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:31	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:31	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:31	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 13:31	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 13:31	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:31	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:31	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 13:31	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:31	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:31	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:31	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:31	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-5 **Lab ID: 40143823006** Collected: 12/22/16 09:40 Received: 12/22/16 14:10 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		12/27/16 13:31	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:31	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:31	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 13:31	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 13:31	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:31	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:31	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 13:31	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/27/16 13:31	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 13:31	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/27/16 13:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-6 **Lab ID: 40143823007** Collected: 12/22/16 09:45 Received: 12/22/16 14:10 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		12/28/16 10:14	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/28/16 10:14	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/28/16 10:14	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/28/16 10:14	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/28/16 10:14	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/28/16 10:14	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/28/16 10:14	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/28/16 10:14	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/28/16 10:14	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/28/16 10:14	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/28/16 10:14	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/28/16 10:14	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/28/16 10:14	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/28/16 10:14	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/28/16 10:14	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/28/16 10:14	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/28/16 10:14	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/28/16 10:14	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/28/16 10:14	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/28/16 10:14	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/28/16 10:14	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/28/16 10:14	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/28/16 10:14	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/28/16 10:14	98-82-8	
p-Isopropyltoluene	**0.74J**	ug/L	1.0	0.50	1		12/28/16 10:14	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/28/16 10:14	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/28/16 10:14	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/28/16 10:14	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/28/16 10:14	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-6 **Lab ID: 40143823007** Collected: 12/22/16 09:45 Received: 12/22/16 14:10 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		12/28/16 10:14	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/28/16 10:14	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/28/16 10:14	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/28/16 10:14	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/28/16 10:14	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/28/16 10:14	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/28/16 10:14	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/28/16 10:14	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/28/16 10:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/28/16 10:14	460-00-4	HS
Dibromofluoromethane (S)	97	%	70-130		1		12/28/16 10:14	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		12/28/16 10:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-7 **Lab ID: 40143823008** Collected: 12/22/16 09:50 Received: 12/22/16 14:10 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		12/27/16 18:07	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:07	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 18:07	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 18:07	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:07	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 18:07	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 18:07	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 18:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:07	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:07	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 18:07	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 18:07	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 18:07	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 18:07	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 18:07	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 18:07	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 18:07	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:07	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 18:07	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 18:07	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:07	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 18:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 18:07	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:07	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 18:07	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 18:07	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:07	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-7 **Lab ID: 40143823008** Collected: 12/22/16 09:50 Received: 12/22/16 14:10 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		12/27/16 18:07	79-34-5	
Tetrachloroethene	**2.0**	ug/L	1.0	0.50	1		12/27/16 18:07	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 18:07	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:07	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 18:07	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 18:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:07	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:07	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 18:07	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		12/27/16 18:07	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 18:07	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/27/16 18:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-8 **Lab ID: 40143823009** Collected: 12/22/16 09:55 Received: 12/22/16 14:10 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		12/27/16 13:53	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:53	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 13:53	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 13:53	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:53	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:53	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 13:53	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:53	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 13:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:53	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:53	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 13:53	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 13:53	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 13:53	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:53	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 13:53	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:53	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 13:53	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:53	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 13:53	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 13:53	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:53	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 13:53	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 13:53	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 13:53	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 13:53	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:53	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-8 **Lab ID: 40143823009** Collected: 12/22/16 09:55 Received: 12/22/16 14:10 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		12/27/16 13:53	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 13:53	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 13:53	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 13:53	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 13:53	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:53	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 13:53	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 13:53	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 13:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/27/16 13:53	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 13:53	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/27/16 13:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-9 **Lab ID: 40143823010** Collected: 12/22/16 10:00 Received: 12/22/16 14:10 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		12/27/16 18:28	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:28	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 18:28	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 18:28	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:28	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:28	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 18:28	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 18:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 18:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:28	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:28	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 18:28	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 18:28	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 18:28	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 18:28	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 18:28	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 18:28	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 18:28	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:28	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 18:28	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 18:28	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:28	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 18:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 18:28	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 18:28	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 18:28	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 18:28	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: MW-9 **Lab ID: 40143823010** Collected: 12/22/16 10:00 Received: 12/22/16 14:10 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		12/27/16 18:28	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 18:28	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 18:28	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 18:28	79-00-5	
Trichloroethene	**0.67J**	ug/L	1.0	0.33	1		12/27/16 18:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:28	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 18:28	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 18:28	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 18:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/27/16 18:28	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		12/27/16 18:28	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/27/16 18:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: GEC TW-4 **Lab ID: 40143823011** Collected: 12/22/16 10:05 Received: 12/22/16 14:10 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		12/27/16 14:35	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 14:35	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 14:35	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 14:35	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 14:35	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 14:35	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 14:35	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 14:35	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 14:35	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 14:35	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 14:35	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 14:35	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 14:35	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 14:35	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 14:35	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 14:35	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 14:35	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 14:35	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 14:35	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 14:35	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 14:35	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 14:35	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 14:35	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 14:35	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 14:35	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 14:35	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 14:35	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 14:35	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: GEC TW-4 **Lab ID: 40143823011** Collected: 12/22/16 10:05 Received: 12/22/16 14:10 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		12/27/16 14:35	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 14:35	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 14:35	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 14:35	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 14:35	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 14:35	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 14:35	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 14:35	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 14:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/27/16 14:35	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		12/27/16 14:35	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/27/16 14:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: TB **Lab ID: 40143823012** Collected: 12/22/16 00:00 Received: 12/22/16 14:10 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		12/27/16 12:07	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:07	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		12/27/16 12:07	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		12/27/16 12:07	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:07	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:07	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		12/27/16 12:07	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		12/27/16 12:07	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		12/27/16 12:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:07	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:07	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		12/27/16 12:07	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		12/27/16 12:07	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/27/16 12:07	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/27/16 12:07	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/27/16 12:07	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 12:07	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/27/16 12:07	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:07	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		12/27/16 12:07	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		12/27/16 12:07	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		12/27/16 14:14	10061-02-6	HS
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 12:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		12/27/16 12:07	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		12/27/16 12:07	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		12/27/16 12:07	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		12/27/16 12:07	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:07	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Sample: TB **Lab ID: 40143823012** Collected: 12/22/16 00:00 Received: 12/22/16 14:10 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		12/27/16 12:07	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		12/27/16 12:07	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		12/27/16 12:07	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/27/16 12:07	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/27/16 12:07	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:07	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/27/16 12:07	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		12/27/16 12:07	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		12/27/16 12:07	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		12/27/16 12:07	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		12/27/16 12:07	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/27/16 12:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

QC Batch: 245043 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40143823001, 40143823002, 40143823003, 40143823004, 40143823005, 40143823006, 40143823007, 40143823008, 40143823009, 40143823010, 40143823011, 40143823012

METHOD BLANK: 1450737 Matrix: Water
Associated Lab Samples: 40143823001, 40143823002, 40143823003, 40143823004, 40143823005, 40143823006, 40143823007, 40143823008, 40143823009, 40143823010, 40143823011, 40143823012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	12/27/16 10:17	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/27/16 10:17	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	12/27/16 10:17	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/27/16 10:17	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/27/16 10:17	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/27/16 10:17	
1,1-Dichloropropene	ug/L	<0.44	1.0	12/27/16 10:17	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	12/27/16 10:17	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	12/27/16 10:17	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	12/27/16 10:17	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	12/27/16 10:17	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	12/27/16 10:17	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	12/27/16 10:17	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	12/27/16 10:17	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/27/16 10:17	
1,2-Dichloropropane	ug/L	<0.23	1.0	12/27/16 10:17	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	12/27/16 10:17	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	12/27/16 10:17	
1,3-Dichloropropane	ug/L	<0.50	1.0	12/27/16 10:17	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	12/27/16 10:17	
2,2-Dichloropropane	ug/L	<0.48	1.0	12/27/16 10:17	
2-Chlorotoluene	ug/L	<0.50	1.0	12/27/16 10:17	
4-Chlorotoluene	ug/L	<0.21	1.0	12/27/16 10:17	
Benzene	ug/L	<0.50	1.0	12/27/16 10:17	
Bromobenzene	ug/L	<0.23	1.0	12/27/16 10:17	
Bromochloromethane	ug/L	<0.34	1.0	12/27/16 10:17	
Bromodichloromethane	ug/L	<0.50	1.0	12/27/16 10:17	
Bromoform	ug/L	<0.50	1.0	12/27/16 10:17	
Bromomethane	ug/L	<2.4	5.0	12/27/16 10:17	
Carbon tetrachloride	ug/L	<0.50	1.0	12/27/16 10:17	
Chlorobenzene	ug/L	<0.50	1.0	12/27/16 10:17	
Chloroethane	ug/L	<0.37	1.0	12/27/16 10:17	
Chloroform	ug/L	<2.5	5.0	12/27/16 10:17	
Chloromethane	ug/L	<0.50	1.0	12/27/16 10:17	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/27/16 10:17	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	12/27/16 10:17	
Dibromochloromethane	ug/L	<0.50	1.0	12/27/16 10:17	
Dibromomethane	ug/L	<0.43	1.0	12/27/16 10:17	
Dichlorodifluoromethane	ug/L	<0.22	1.0	12/27/16 10:17	
Diisopropyl ether	ug/L	<0.50	1.0	12/27/16 10:17	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

METHOD BLANK: 1450737 Matrix: Water

Associated Lab Samples: 40143823001, 40143823002, 40143823003, 40143823004, 40143823005, 40143823006, 40143823007, 40143823008, 40143823009, 40143823010, 40143823011, 40143823012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.50	1.0	12/27/16 10:17	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	12/27/16 10:17	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	12/27/16 10:17	
m&p-Xylene	ug/L	<1.0	2.0	12/27/16 10:17	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	12/27/16 10:17	
Methylene Chloride	ug/L	<0.23	1.0	12/27/16 10:17	
n-Butylbenzene	ug/L	<0.50	1.0	12/27/16 10:17	
n-Propylbenzene	ug/L	<0.50	1.0	12/27/16 10:17	
Naphthalene	ug/L	<2.5	5.0	12/27/16 10:17	
o-Xylene	ug/L	<0.50	1.0	12/27/16 10:17	
p-Isopropyltoluene	ug/L	<0.50	1.0	12/27/16 10:17	
sec-Butylbenzene	ug/L	<2.2	5.0	12/27/16 10:17	
Styrene	ug/L	<0.50	1.0	12/27/16 10:17	
tert-Butylbenzene	ug/L	<0.18	1.0	12/27/16 10:17	
Tetrachloroethene	ug/L	<0.50	1.0	12/27/16 10:17	
Toluene	ug/L	<0.50	1.0	12/27/16 10:17	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/27/16 10:17	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	12/27/16 10:17	
Trichloroethene	ug/L	<0.33	1.0	12/27/16 10:17	
Trichlorofluoromethane	ug/L	<0.18	1.0	12/27/16 10:17	
Vinyl chloride	ug/L	<0.18	1.0	12/27/16 10:17	
4-Bromofluorobenzene (S)	%	92	70-130	12/27/16 10:17	
Dibromofluoromethane (S)	%	99	70-130	12/27/16 10:17	
Toluene-d8 (S)	%	98	70-130	12/27/16 10:17	

LABORATORY CONTROL SAMPLE: 1450738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.7	97	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	45.3	91	67-130	
1,1,2-Trichloroethane	ug/L	50	47.9	96	70-130	
1,1-Dichloroethane	ug/L	50	42.7	85	70-133	
1,1-Dichloroethene	ug/L	50	40.5	81	70-130	
1,2,4-Trichlorobenzene	ug/L	50	48.4	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.9	92	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.7	99	70-130	
1,2-Dichlorobenzene	ug/L	50	47.9	96	70-130	
1,2-Dichloroethane	ug/L	50	45.6	91	70-130	
1,2-Dichloropropane	ug/L	50	48.3	97	70-130	
1,3-Dichlorobenzene	ug/L	50	46.6	93	70-130	
1,4-Dichlorobenzene	ug/L	50	48.2	96	70-130	
Benzene	ug/L	50	42.5	85	60-135	
Bromodichloromethane	ug/L	50	49.7	99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

LABORATORY CONTROL SAMPLE: 1450738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	63.1	126	70-130	
Bromomethane	ug/L	50	44.1	88	33-130	
Carbon tetrachloride	ug/L	50	51.2	102	70-138	
Chlorobenzene	ug/L	50	50.4	101	70-130	
Chloroethane	ug/L	50	44.4	89	51-130	
Chloroform	ug/L	50	43.4	87	70-130	
Chloromethane	ug/L	50	47.1	94	25-132	
cis-1,2-Dichloroethene	ug/L	50	41.4	83	69-130	
cis-1,3-Dichloropropene	ug/L	50	48.5	97	70-130	
Dibromochloromethane	ug/L	50	51.5	103	70-130	
Dichlorodifluoromethane	ug/L	50	28.7	57	23-130	
Ethylbenzene	ug/L	50	53.1	106	70-136	
Isopropylbenzene (Cumene)	ug/L	50	57.6	115	70-140	
m&p-Xylene	ug/L	100	107	107	70-138	
Methyl-tert-butyl ether	ug/L	50	45.5	91	66-138	
Methylene Chloride	ug/L	50	40.7	81	70-130	
o-Xylene	ug/L	50	53.7	107	70-134	
Styrene	ug/L	50	50.8	102	70-133	
Tetrachloroethene	ug/L	50	51.7	103	70-138	
Toluene	ug/L	50	49.2	98	70-130	
trans-1,2-Dichloroethene	ug/L	50	41.8	84	70-131	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	69-130	
Trichloroethene	ug/L	50	48.7	97	70-130	
Trichlorofluoromethane	ug/L	50	50.7	101	50-150	
Vinyl chloride	ug/L	50	40.4	81	49-130	
4-Bromofluorobenzene (S)	%			105	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1451127 1451128

Parameter	Units	40143869001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.3	53.0	109	106	70-134	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	49.3	48.2	99	96	67-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	50.8	49.9	102	100	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	46.7	46.4	93	93	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	44.4	44.4	89	89	68-136	0	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	52.3	51.7	105	103	62-139	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	51.6	50.1	103	100	50-150	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.3	52.8	107	106	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.5	50.0	103	100	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	50.5	49.3	101	99	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	49.4	49.7	99	99	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1451127 1451128

Parameter	Units	40143869001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.3	49.5	99	99	70-131	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.0	50.0	100	100	70-130	0	20	
Benzene	ug/L	<0.50	50	50	45.4	45.6	91	91	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	51.3	53.0	103	106	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	66.1	66.6	132	133	70-130	1	20	M1
Bromomethane	ug/L	<2.4	50	50	49.9	48.8	100	98	33-130	2	27	
Carbon tetrachloride	ug/L	<0.50	50	50	57.3	56.6	115	113	70-138	1	20	
Chlorobenzene	ug/L	<0.50	50	50	51.2	51.1	102	102	70-130	0	20	
Chloroethane	ug/L	<0.37	50	50	48.7	47.9	97	96	51-130	2	20	
Chloroform	ug/L	<2.5	50	50	46.6	46.1	93	92	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	52.0	50.7	104	101	25-132	3	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	45.4	45.9	91	92	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	51.3	52.7	103	105	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	54.9	53.8	110	108	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	30.6	30.3	61	61	23-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	54.4	54.9	109	110	70-138	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	58.3	59.5	117	119	70-152	2	20	
m&p-Xylene	ug/L	<1.0	100	100	110	112	110	112	70-140	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	50.2	48.8	100	98	66-139	3	20	
Methylene Chloride	ug/L	<0.23	50	50	44.2	43.3	88	87	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	55.7	56.2	111	112	70-134	1	20	
Styrene	ug/L	<0.50	50	50	53.3	53.4	107	107	70-138	0	20	
Tetrachloroethene	ug/L	<0.50	50	50	55.3	54.8	111	110	70-148	1	20	
Toluene	ug/L	<0.50	50	50	51.5	51.2	103	102	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	46.2	45.2	92	90	70-133	2	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.9	50.4	104	101	69-130	3	20	
Trichloroethene	ug/L	<0.33	50	50	50.6	51.1	101	102	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	55.7	54.3	111	109	50-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	44.9	43.4	90	87	49-133	4	20	
4-Bromofluorobenzene (S)	%						103	105	70-130			
Dibromofluoromethane (S)	%						99	101	70-130			
Toluene-d8 (S)	%						96	97	70-130			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

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

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-1138 RICE ENTERPRISES
Pace Project No.: 40143823

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40143823001	**MW-1**	EPA 8260	245043		
40143823002	**PZ-1**	EPA 8260	245043		
40143823003	**MW-2**	EPA 8260	245043		
40143823004	**SMW-3**	EPA 8260	245043		
40143823005	**MW-4**	EPA 8260	245043		
40143823006	**MW-5**	EPA 8260	245043		
40143823007	**MW-6**	EPA 8260	245043		
40143823008	**MW-7**	EPA 8260	245043		
40143823009	**MW-8**	EPA 8260	245043		
40143823010	**MW-9**	EPA 8260	245043		
40143823011	**GEC TW-4**	EPA 8260	245043		
40143823012	**TB**	EPA 8260	245043		

Derf

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1

40143823

Page 36 of 37

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	Fehr Graham
Branch/Location:	Plymouth
Project Contact:	Matt Dahlem
Phone:	(920) 892-2444
Project Number:	14-1138
Project Name:	Rice Enterprises
Project State:	WI
Sampled By (Print):	Dillon Plamann
Sampled By (Sign):	DMP
PO #:	Regulatory Program:

*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

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)
001	MW-1	12-22-16	915	S	N	B	VOC		3-40mlVB
002	P2-1		920						
003	MW-2		925						
004	SMW-3		930						
005	MW-4		935						
006	MW-5		940						
007	MW-6		945						
008	MW-7		950						
009	MW-8		~~1000~~ 955						
010	MW-9		1000						
011	GEC TW-4		1005						
012	TB								1-40mlVB

Quote #:	
Mail To Contact:	Matt Dahlem
Mail To Company:	Fehr Graham
Mail To Address:	Email
Invoice To Contact:	AA
Invoice To Company:	AA
Invoice To Address:	AA
Invoice To Phone:	

Profile #

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:	Date/Time:	Received By:	Date/Time:
DMP	12-22-16 1410	Rasel Pau	12/22/16 1410

PACE Project No.
40143823

Receipt Temp = 2.0 °C

Sample Receipt pH
~~OK / Adjusted~~

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

C019a(27Jun2006)

Version 6.0 06/14/06

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Fehr Graham

Project # **WO#: 40143823**

40143823

Courier: ☐ Fed Ex ☐ UPS ☑ Client ☐ Pace Other: _____

Tracking #: _____

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 NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RO I /Corr: _____ **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 12/22/16
Initials: BH

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☑Yes ☐No ☐N/A	14. 007 3-40 mlVB BH 12/22/16
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): blocked by client label		BH 12/22/16

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Client listed matrix as Solid matrix received are waters BH 12/22/16

Project Manager Review: _____ **Date:** 12.23.16

Appendix F

Boring Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 40		0.5	0.0-0.25' CONCRETE 0.25-1.25' CLAYEY SAND, red, fined grained sand, cohesive, low plasticity, dry, med. dense (FILL, SC)	SC									
			1.0											
			1.5	1.25-2.0' As above. Color grades to dark brown / black.	SC									
			2.0	2.0-2.5' SILTY CLAY, red, cohesive, high plasticity, stiff, dry (FILL, CH)	CH			0.0						
			2.5	2.5-3.0' SILTY SAND, med. grained, red, dry, loose (FILL, SM)	SM									
			3.0		CH			0.0						
			3.5	3.0-3.5' SILTY CLAY, red, cohesive, high plasticity, stiff, dry (FILL, CH)	SM		▼							
2 CS	48 37		4.0	3.5-4.0' SILTY SAND, med. grained, red, dry, loose (FILL, SM)										
			4.5											
			5.0	4.0-7.0' CLAYEY SILT w/ SAND, fine grained, brown, non-cohesive, low plasticity, wet (TILL, ML)										
			5.5		ML									
			6.0											
			6.5											
			7.0											
			7.5	7.0-8.0' As above. Color grades to grey brown.	ML									
			8.0											
				8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 34		0.5 1.0 1.5 2.0 2.5	0.0-0.25' CONCRETE 0.25-2.75' CLAYEY SILT w/ SAND, reddish brown, slightly cohesive, non plastic, dry, dense (FILL, ML)	ML			0.0						
			3.0 3.5	2.75-4.0' As above. Color grades to dark brown.	ML			0.0						
2 CS	48 32		4.0 4.5 5.0 5.5	4.0-6.0' SILT, reddish brown, non-cohesive, non-plastic, loose, moist (TILL, ML)	ML		▼	0.0						
			6.0 6.5 7.0 7.5	6.0-8.0' As above. Color grades to brown. Wet at 6'	ML									
			8.0	8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 34		0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	0.0-0.25' CONCRETE 0.25-0.75' POORLY GRADED SAND, medium grained, reddish brown (FILL, SP) 0.75-1.25' SILT, dark brown, non-cohesive, non-plastic, dry (FILL, ML) 1.25-3.5' POORLY GRADED SAND, medium grained, reddish brown (FILL, SP) 3.5-4.25' SANDY SILT, fined grained sand, dark brown / brown, non-cohesive, non-plastic, dense, moist (TILL, ML) 4.25-6.0' As above. Color grades to reddish brown. Wet at 5' 6.0-8.0' As above. Color grades to brown. 8.0' End of Boring. Abandoned with bentonite.	SP ML SP ML ML		▼	0.0 0.0 0.0						
2 CS	48 39													

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 / 40		0.5	0.0-0.25' CONCRETE										
			1.0	0.25-0.6' POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)	SP									
			1.5	0.6-1.0' SILT, dark brown / black, non-cohesive, non-plastic, dry (FILL, ML)	ML									
			2.0	1.0-2.25' POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)	SP			0.0						
			2.5	2.25-3.5' SANDY SILT, fined grained sand, dark brown / brown, non-cohesive, non-plastic, dense, moist (TILL, ML)	ML									
			3.0											
			3.5											
2 CS	48 / 39		4.0	3.5-5.0' POORLY GRADED SAND, fine to medium grained, reddish brown (FILL, SP)	SP			0.0						
			4.5											
			5.0				▼							
			5.5	5.0-6.0' SILT, brownish yellow, non-cohesive, non-plastic, loose, wet (TILL, ML)	ML									
			6.0	6.0-8.0' As above. Color grades to brown. Med. stiff.	ML									
			6.5											
			7.0											
			7.5											
			8.0	8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-14

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 40		0.5 1.0 1.5 2.0	0.0-0.25' CONCRETE 0.25-2.25' CLAYEY SILTY SAND, red / black, fine grained sand, cohesive, low plasticity, stiff, dry (FILL, ML-CL)	ML-CL			0.0						
			2.5 3.0 3.5 4.0	2.25-4.0' SILTY CLAY, red, cohesive, high plasticity, stiff, dry, fine grained sand seam at 3.0' (FILL, CH)	CH									
2 CS	48 37		4.5 5.0 5.5 6.0	4.0-6.0' SILT, light brown, non-cohesive, non-platic, loose, wet at 5.0' (TILL, ML)	ML		▼	0.0						
			6.5 7.0 7.5 8.0	6.0-8.0' CLAYEY SILT, brown, cohesive, low plasticity, stiff (TILL, ML-CL)	ML									
				8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 38		0.5 1.0 1.5 2.0 2.5 3.0	0.0-0.25' CONCRETE 0.25-3.0' SANDY SILT, fine to med. grained sand, brown, non-cohesive, non-plastic, dry, dense (FILL, ML)	ML			0.0						
			3.5 4.0	3.0-4.25' As above. Color grades to dark brown.	ML									
2 CS	48 39		4.5 5.0 5.5 6.0 6.5	4.25-6.5' As above. Color grades to reddish light brown, water at 6.5'	ML		▼	0.0						
			7.0 7.5 8.0	6.5-8.0' As above. Color grades to brown. 8.0' End of Boring. Abandoned with bentonite.	ML									

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

Signature	Firm	Tel:
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 42		0.5 1.0 1.5 2.0	0.0-2.0' CLAYEY SILT w/ GRAVEL (topsoil), 10% 1/4" subrounded gravel, black, non-cohesive, non-plastic, roots, dense (FILL, OL)	OL									
			2.5 3.0 3.5 4.0	2.0-6.5' SANDY SILT, very fine grained sand, non-cohesive, non-plastic, dense, moist, wet at 4.5' (TILL, ML)				0.0						
2 CS	48 48		4.5 5.0 5.5 6.0 6.5		ML		▼	0.0						
			7.0 7.5 8.0	6.5-8.0' As above. Color grades to grey brown.	ML									
				8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 38		0.5	0.0-0.25' CLAYEY SILT (topsoil), black, roots (FILL, OL)	OL									
			1.0	0.25-0.5' SILTY GRAVEL, grey, 3/4" angular gravel, dry (FILL, GM)	GM									
			1.5	0.5-2.0' SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, dry (FILL, ML)	ML			0.0						
			2.0											
			2.5	2.0-2.25' ASPHALT				0.0						
			3.0	2.25-8.0' SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, wet at 4.0' (FILL, ML)										
			3.5											
2 CS	48 44		4.0				▼							
			4.5											
			5.0		ML									
			5.5											
			6.0											
			6.5											
			7.0											
			7.5											
			8.0	8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-18

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 / 28		0.5	0.0-4.25' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM			0.0						
			1.0											
			1.5											
			2.0											
			2.5											
			3.0					0.0						
			3.5											
			4.0											
2 CS	48 / 40		4.5	4.25-6.5' SILT, brown, non-cohesive, non-plastic, dense, moist, wet at 4.75' (TILL, ML)	ML		▼							
			5.0											
			5.5											
			6.0											
			6.5	6.5-8.0' SILTY CLAY, brown, cohesive, high plasticity, tight, moist (TILL, CH)	CH									
			7.0											
			7.5											
			8.0	8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-19

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 34		0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0	0.0-4.25' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM			0.0						
2 CS	48 48		4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0	4.25-6.5' SILT, brown, non-cohesive, non-plastic, dense, moist, wet at 4.75' (TILL, ML)	ML		▼	0.0						
				6.5-8.0' SILTY CLAY, brown, moist, cohesive, high plasticity, very stiff, (TILL, CH)	CH									
				8.0' End of Boring. Abandoned with bentonite.										

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

Signature	Firm	Tel: 920-892-2444
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-20

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 40		0.5	0.0-0.75' ASPHALT										
			1.0 1.5 2.0	0.75-2.5' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM			0.0						
			2.5	2.5-3.0' ASPHALT										
			3.0	3.0-3.25' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM									
			3.5	3.25-3.75' ASPHALT										
2 CS	48 18		4.0 4.5 5.0	3.75-5.5' SILT, dark brown / green, non-cohesive, non-plastic, dense, water at 4' (TILL, ML)	ML		▼	0.0						
			5.5 6.0 6.5 7.0 7.5	5.5-8.0' No recovery, soil slid out of tube.										
			8.0	8.0' End of Boring. Abandonded with bentonite.										

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

Signature	Firm	
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	Tel: 920-892-2444 Fax: 920-892-2620

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
One Hour Martinizing	02-05-217276	B-21

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies, Inc.	12/11/2012	12/11/2012	geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Brown	5	Green Bay

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 CS	48 33		0.5 1.0 1.5 2.0 2.5 3.0	0.75-3.0' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM			0.0						
			3.0	3.0-3.25' ASPHALT										
			3.5	3.25-3.75' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)	GM									
2 CS	48 35		4.0 4.5 5.0 5.5 6.0	3.75-4.25' SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, dry (FILL, ML)	ML		▼	0.0						
				4.25-6.0' SILT, dark brown / green, non-cohesive, non-plastic, dense, water at 4.5' (TILL, ML)	ML									
			6.5 7.0 7.5 8.0	6.0-8.0' SILTY CLAY, brown, cohesive, high plasticity, very stiff, moist to wet (TILL, CH)	CH									
				8.0' End of Boring. Abandoned with bentonite.										

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

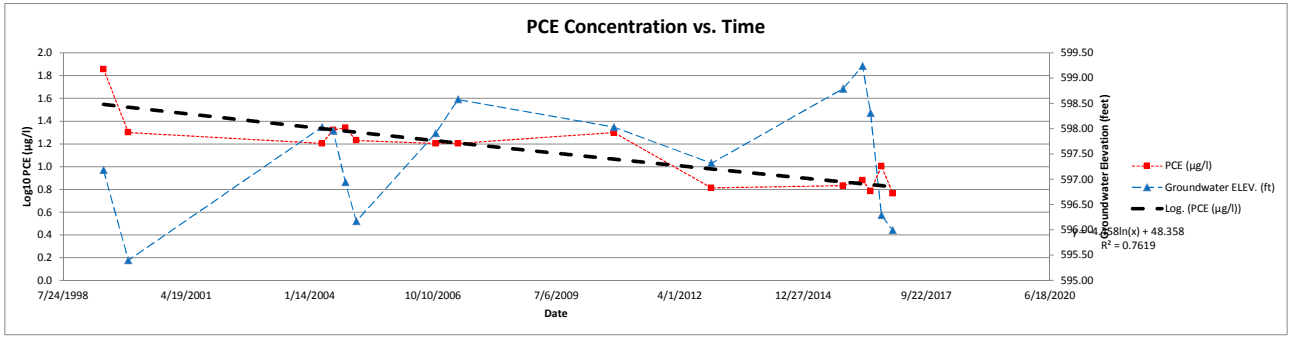
Signature	Firm	Tel:
	Alpha Terra Science 1237 Pilgrim Rd. Plymouth, WI 53073	920-892-2444 Fax: 920-892-2620

Appendix G

Contaminant Trend Analysis

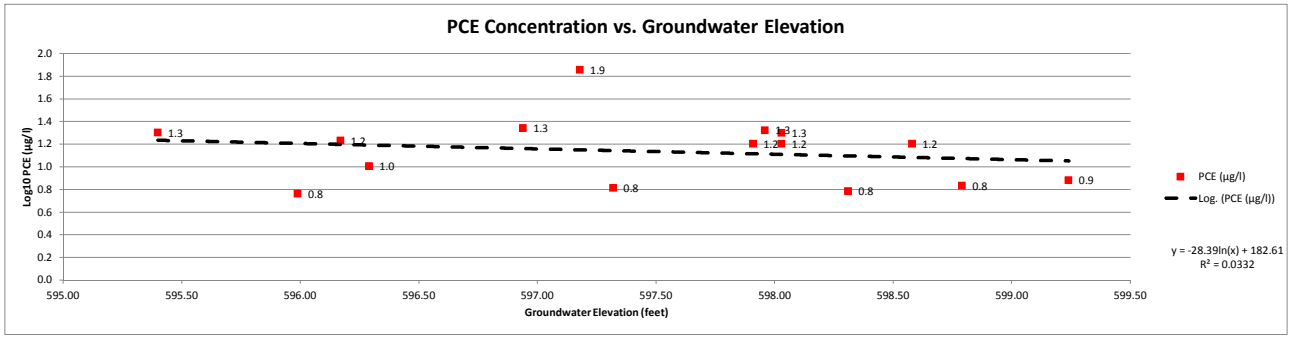
Groundwater monitoring data (ug/l)

MW 1																		
Groundwater ELEV. (ft)	597.18	595.40	598.03	597.96	596.94	596.17	597.91	598.58	598.03	597.32	598.79	599.24	598.31	596.29	595.99			
Sampling Dates	6/17/1999	1/3/2000	4/22/2004	7/22/2004	10/28/2004	1/25/2005	10/31/2006	4/30/2007	10/15/2010	12/12/2012	11/15/2015	4/20/2016	6/24/2016	9/22/2016	12/22/2016		Max	Min
PCE (µg/l)	71.9	20.0	16.0	21.0	22.0	17.0	16.0	16.0	19.9	6.5	6.8	7.6	6.1	10.1	5.8		71.9	5.8
Log_{10} [PCE(µg/l)]	1.9	1.3	1.2	1.3	1.3	1.2	1.2	1.2	1.3	0.8	0.8	0.9	0.8	1.0	0.8			



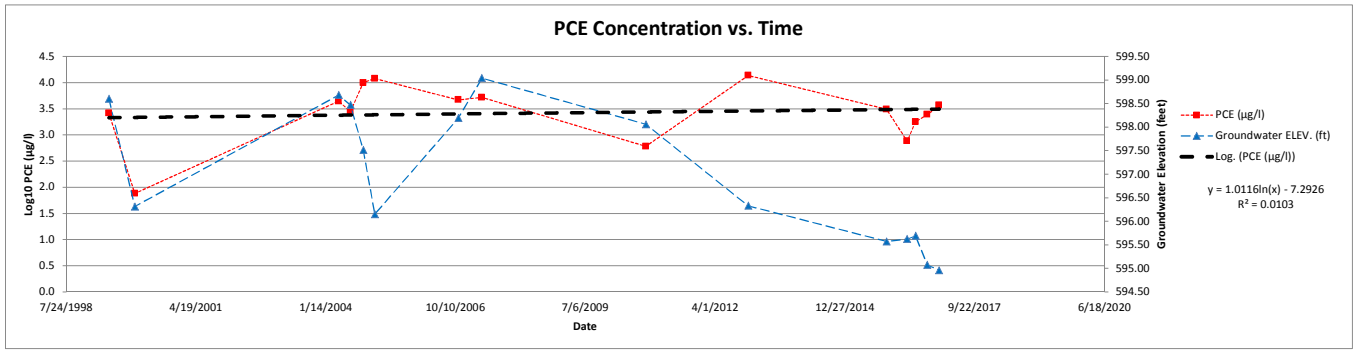
Notes:

The logarithm (to the base 10) of the PCE concentration data is plotted as a function of time.
The trend line is the semi-log10-transformed regression line.
Groundwater elevation data is superimposed on the concentration data.
For the graph above, PCE concentrations appear to be decreasing, and there seems to be a decreasing water level with time.
For the graph below, PCE concentrations appear to decrease as a function of increasing water levels.



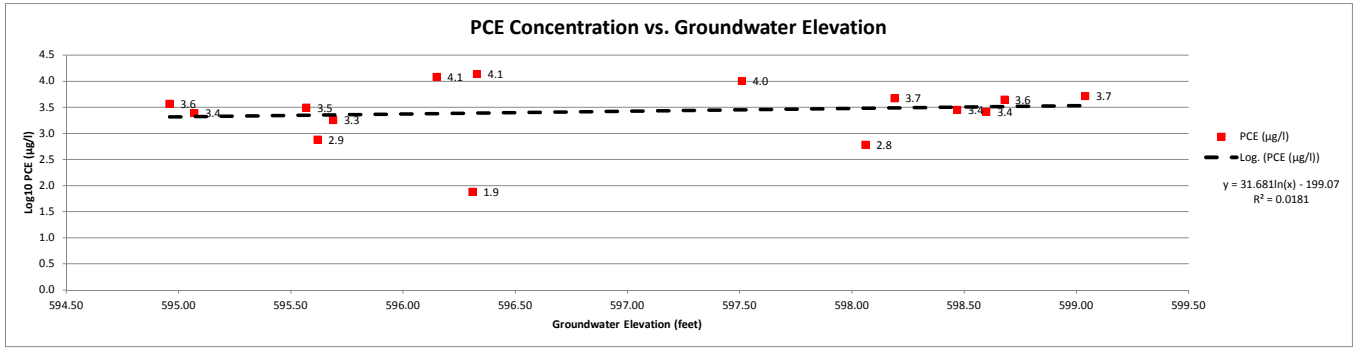
Groundwater monitoring data (ug/l)

MW 3																	
Groundwater ELEV. (ft)	598.60	596.31	598.68	598.47	597.51	596.15	598.19	599.04	598.06	596.33	595.57	595.62	595.69	595.07	594.96		
Sampling Dates	6/17/1999	1/3/2000	4/22/2004	7/22/2004	10/28/2004	1/25/2005	10/31/2006	4/30/2007	10/15/2010	12/12/2012	11/12/2015	4/20/2016	6/24/2016	9/22/2016	12/22/2016	Max	Min
PCE (µg/l)	2,600.0	76.0	4,400.0	2,800.0	10,000.0	12,000.0	4,700.0	5,200.0	602.0	13,700.0	3,100.0	760.0	1,790.0	2,450.0	3,680.0	13,700.0	76.0
Log_{10} [PCE(µg/l)]	3.4	1.9	3.6	3.4	4.0	4.1	3.7	3.7	2.8	4.1	3.5	2.9	3.3	3.4	3.6		



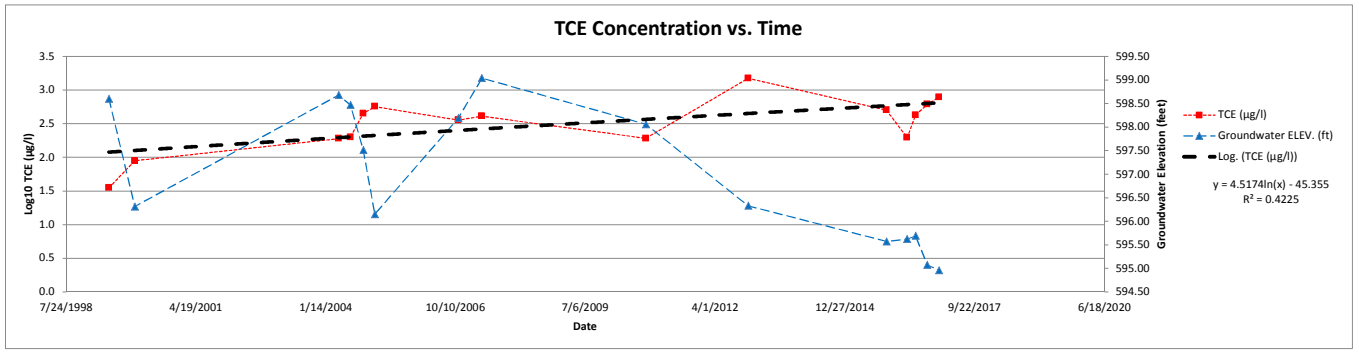
Notes:

The logarithm (to the base 10) of the PCE concentration data is plotted as a function of time.
The trend line is the semi-log10-transformed regression line.
Groundwater elevation data is superimposed on the concentration data.
For the graph above, PCE concentrations appear to be slightly increasing but relatively stable, and there seems to be a decreasing water level with time.
For the graph below, PCE concentrations appear to increase as a function of increasing water levels.



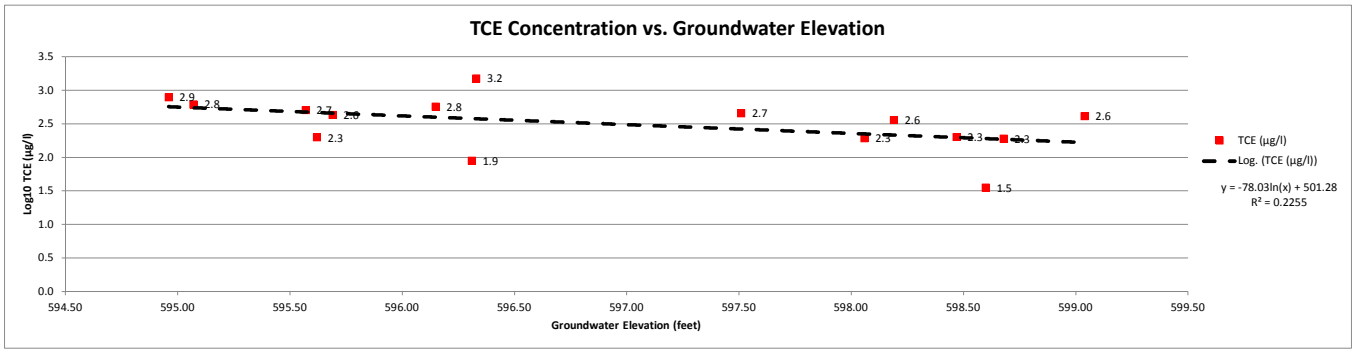
Groundwater monitoring data (ug/l)

MW 3																		
Groundwater ELEV. (ft)	598.60	596.31	598.68	598.47	597.51	596.15	598.19	599.04	598.06	596.33	595.57	595.62	595.69	595.07	594.96			
Sampling Dates	6/17/1999	1/3/2000	4/22/2004	7/22/2004	10/28/2004	1/25/2005	10/31/2006	4/30/2007	10/15/2010	12/12/2012	11/12/2015	4/20/2016	6/24/2016	9/22/2016	12/22/2016		Max	Min
TCE (µg/l)	35.3	89.0	190.0	200.0	450.0	570.0	360.0	410.0	191.0	1,500.0	504.0	197.0	425.0	616.0	785.0		1,500.0	35.3
Log_{10} [TCE(µg/l)]	1.5	1.9	2.3	2.3	2.7	2.8	2.6	2.6	2.3	3.2	2.7	2.3	2.6	2.8	2.9			



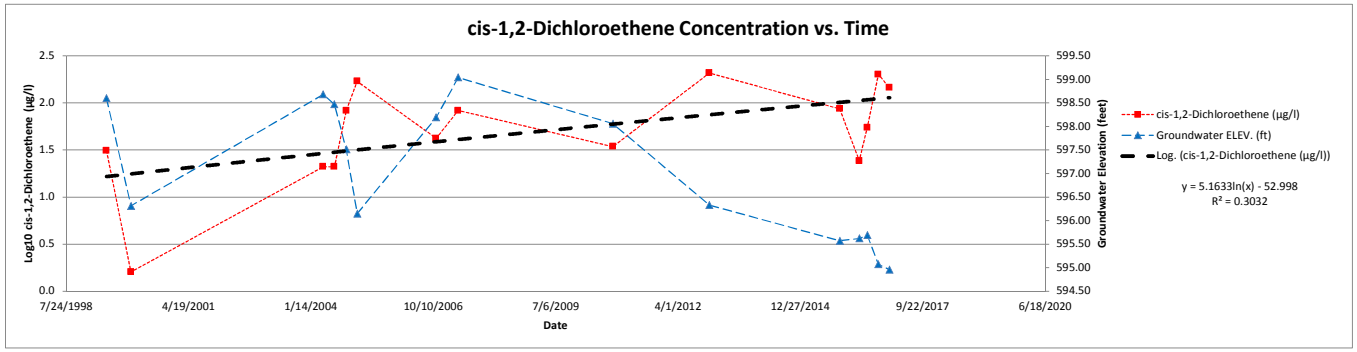
Notes:

The logarithm (to the base 10) of the TCE concentration data is plotted as a function of time.
The trend line is the semi-log10-transformed regression line.
Groundwater elevation data is superimposed on the concentration data.
For the graph above, TCE concentrations appear to be increasing, and there seems to be a decreasing water level with time.
For the graph below, TCE concentrations appear to decrease as a function of increasing water levels.



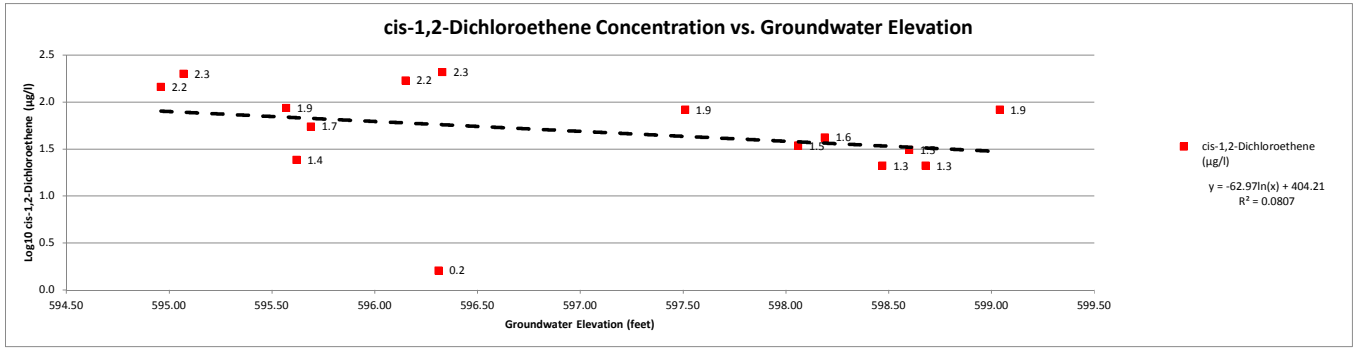
Groundwater monitoring data (ug/l)

MW 3																	
Groundwater ELEV. (ft)	598.60	596.31	598.68	598.47	597.51	596.15	598.19	599.04	598.06	596.33	595.57	595.62	595.69	595.07	594.96		
Sampling Dates	6/17/1999	1/3/2000	4/22/2004	7/22/2004	10/28/2004	1/25/2005	10/31/2006	4/30/2007	10/15/2010	12/12/2012	11/12/2015	4/20/2016	6/24/2016	9/22/2016	12/22/2016		
																Max	Min
cis-1,2-Dichloroethene (µg/l)	31.0	1.6	21.0	21.0	83.0	170.0	42.0	83.0	34.4	208.0	86.5	24.3	54.7	201.0	145.0	208.0	1.6
Log_{10} [cis-1,2-Dichloroethene(µg/l)]	1.5	0.2	1.3	1.3	1.9	2.2	1.6	1.9	1.5	2.3	1.9	1.4	1.7	2.3	2.2		



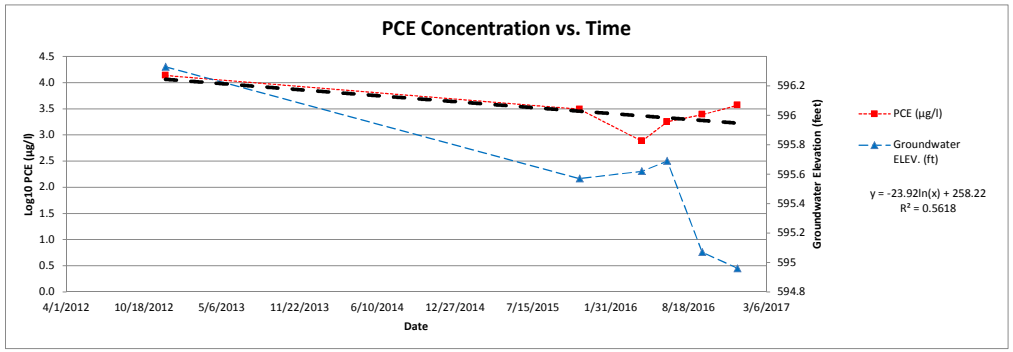
Notes:

The logarithm (to the base 10) of the cis-1,2-DCE concentration data is plotted as a function of time.
The trend line is the semi-log10-transformed regression line.
Groundwater elevation data is superimposed on the concentration data.
For the graph above, cis-1,2-DCE concentrations appear to be increasing, and there seems to be a decreasing water level with time.
For the graph below, cis-1,2-DCE concentrations appear to decrease as a function of increasing water levels.



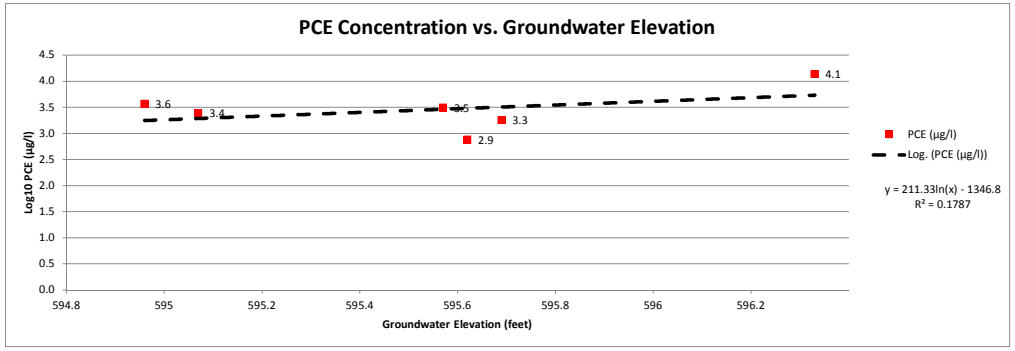
Groundwater monitoring data (ug/l)

MW *3*								
Groundwater ELEV. (ft)	*596.33*	*595.57*	*595.62*	*595.69*	*595.07*	*594.96*		
Sampling Dates	*12/12/2012*	*11/12/2015*	*4/20/2016*	*6/24/2016*	*9/22/2016*	*12/22/2016*		
							Max	Min
PCE (µg/l)	*13,700.0*	*3,100.0*	*760.0*	*1,790.0*	*2,450.0*	*3,680.0*	*13,700.0*	*76.0*
Log_{10} [PCE(µg/l)]	*4.1*	*3.5*	*2.9*	*3.3*	*3.4*	*3.6*		



Notes:

The logarithm (to the base 10) of the PCE concentration data is plotted as a function of time.
The trend line is the semi-log10-transformed regression line.
Groundwater elevation data is superimposed on the concentration data.
For the graph above, PCE concentrations appear to be decreasing, and there seems to be a decreasing water level with time.
For the graph below, PCE concentrations appear to increase as a function of increasing water levels.



Appendix H

Change Order Cost Estimate

TABLE 1: Quarterly Monitoring Costs (2 Events, 12 wells, over 6 Months)
Consultant and Commodity Services Cost Estimate
OHM, 1923 Main Street, Green Bay, WI

ITEM DESCRIPTION	Unit Price	Quantity	Units	Total Cost	DERF INELIGIBLE
CONSULTING SERVICES					
Project Management 6 months					
Sr. Hydrogeologist/ Engineer	$100.00	12	hour	$1,200.00	
Geologist	$70.00	6	hour	$420.00	
Subtotal Task				***$1,620.00***	
Post Excavation Groundwater Monitoring (2 Events, 12 wells, over 6 Months)					
PER EVENT					
Sr. Hydrogeologist	$100.00	6	hour	$600.00	
Sr. Tech. Water Levels, DO, ORP, etc.	$70.00	4	hour	$280.00	
Sr. Tech - Purge and Sample	$70.00	12	hour	$840.00	
Sample Ship, Forms	$70.00	3	hour	$210.00	
Bailers, Rope, tubing	$20.00	12	each	$240.00	
Drums	$100.00	2	each	$200.00	
Multi-parameter meter (D.O., ORP, etc.)	$125.00	1	day	$125.00	
Field Supplies - Expendables	$25.00	1	day	$25.00	
WL Meter, Peristaltic	$61.00	1	day	$61.00	
		EVENTS	2	$2,581.00	
Subtotal Task				***$5,162.00***	
Data Evaluation Groundwater Monitoring Status Report					
Sr. Hydrogeologist/ Eng Data Eval Doc Reprt	$100.00	12	hour	$1,200.00	
Sr. Technician Data Eval (Ongoing)	$70.00	6	hour	$420.00	
Drafting	$55.00	8	hour	$440.00	
Administrative	$50.00	2	hour	$100.00	
		EVENTS	2	$2,160.00	
Subtotal Task				***$4,320.00***	
CONSULTING SERVICES TOTAL				**$11,102.00**	
COMMODITY SERVICES					
Non-Hazardous Contaminated Purge Waters Disposal					
Disposal Contractor					
55 gallon DOT open top drum	$53.00	2	drum	$106.00	
Contaminated Purge Waters (Non-Haz)	$145.00	2	drum	$290.00	
			Subtotal	**$396.00**	
Post Excavation Groundwater Monitoring (2 Events, 12 wells, over 6 Months)					
(1 piezometer, 1 sump, 10 wells)					
Laboratory per Event with Duplicate					
Groundwater Samples 12 wells plus dup each event					
VOCs	$50.00	13	each	$650.00	
		EVENTS	2		
			TASK TOTAL	**$1,300.00**	

TOTAL CONTRACTOR		**$1,696.00**
TOTAL CONSULTANT		**$11,102.00**
ESTIMATED TOTAL PROJECT TO CLOSURE		**$12,798.00**
		0

Total Anticipated DERF Ineligible	$0.00
Total Anticipated DERF Reimbursement	$12,798.00

Site Name: *ONE HOUR MARTINIZING*
BRRTS #: *02-05-217276*
Type of Action: *Change Order*

TASKS	BUDGET				INVOICES					
Bid / Budgeted Description	Bid / Budgeted Amount	INSERT	Total Approved Budget	Previous Claims (If applicable)	*Provider Name, Invoice #, Billing Date*	*Provider Name, Invoice #, Billing Date*	*Provider Name, Invoice #, Billing Date*	*Provider Name, Invoice #, Billing Date*	INSERT	Total Invoiced Costs
Consultant Costs										
Project Management 6 months										$ -
Sr. Hydrogeologist/Engineer - Management Activities	$ 1,200.00		$ 1,200.00							
Geologist - Management Activities	$ 420.00		$ 420.00							$ -
Groundwater Monitoring Event 1										
Sr. Hydrogeologist - Groundwater Monitoring	$ 600.00		$ 600.00							$ -
Sr. Tech. Water Levels, DO, ORP, etc.	$ 280.00		$ 280.00							$ -
Sr. Tech - Purge and Sample	$ 840.00		$ 840.00							$ -
Sample Ship, Forms	$ 210.00		$ 210.00							$ -
Bailers, Rope, tubing	$ 240.00		$ 240.00							$ -
Drums	$ 200.00		$ 200.00							$ -
Multi-parameter meter (D.O., ORP, etc.)	$ 125.00		$ 125.00							$ -
Field Supplies - Expendables	$ 25.00		$ 25.00							$ -
WL Meter, Peristaltic	$ 61.00		$ 61.00							$ -
Sr. Hydrogeologist/ Eng Data Eval Doc Reprt	$ 1,200.00		$ 1,200.00							
Sr. Technician Data Eval (Ongoing)	$ 420.00		$ 420.00							
Drafting	$ 440.00		$ 440.00							
Administrative	$ 100.00		$ 100.00							
Groundwater Monitoring Event 2										
Sr. Hydrogeologist - Groundwater Monitoring	$ 600.00		$ 600.00							
Sr. Tech. Water Levels, DO, ORP, etc.	$ 280.00		$ 280.00							
Sr. Tech - Purge and Sample	$ 840.00		$ 840.00							
Sample Ship, Forms	$ 210.00		$ 210.00							
Bailers, Rope, tubing	$ 240.00		$ 240.00							
Drums	$ 200.00		$ 200.00							
Multi-parameter meter (D.O., ORP, etc.)	$ 125.00		$ 125.00							
Field Supplies - Expendables	$ 25.00		$ 25.00							
WL Meter, Peristaltic	$ 61.00		$ 61.00							
Sr. Hydrogeologist/ Eng Data Eval Doc Reprt	$ 1,200.00		$ 1,200.00							
Sr. Technician Data Eval (Ongoing)	$ 420.00		$ 420.00							
Drafting	$ 440.00		$ 440.00							
Administrative	$ 100.00		$ 100.00							
Consultant Cost Total	*$ 11,102.00*	$ -	$ 11,102.00	$ -						*$ -*
Sub-Contractor Costs										
Non-Hazardous Contaminated Purge Waters Disposal		$ -								$ -
55 gallon DOT open top drum	$ 106.00		$ 106.00							
Contaminated Purge Waters (Non-Haz) - 2 drums	$ 290.00		$ 290.00							
Laboratory per Event with Duplicate (12 wells + DUP)										
VOCs Event 1 (13 groundwater samples) @ $50/each	$ 650.00		$ 650.00							
VOCs Event 2 (13 groundwater samples) @ $50/each	$ 650.00		$ 650.00							
Sub-Contractor Cost Total	*$ 1,696.00*	$ -	*$ 1,696.00*	$ -						*$ -*
DERF ELIGIBLE SUB-TOTALS	**$ 12,798.00**	**$ -**	**$ 12,798.00**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$-**	**$ -**
Non-DERF Eligible Expenses										
										$ -
										$ -
Non-DERF Cost Total				$ -	$ -	$ -	$ -	$ -		*$ -*
INVOICE GRAND TOTAL				**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	##	**$ -**
Check Numbers										

Dry Cleaner Environmental Response Program
Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 08/12)

DERF COST BREAKOUT (this claim)									
A Soil Investigation	B Soil Remediation	C Groundwater Investigation	D Groundwater Remediation	E Air/Vapor Investigation	F Air/Vapor Remediation	G Lab & Other Analysis	H Miscellaneous Costs	Budget Remaining Use (-) to indicate cost over-run	% Task Complete, Remarks
								$ -	Task % Complete
								$ 420.00	
								$ 600.00	
								$ 280.00	
								$ 840.00	
								$ 210.00	
								$ 240.00	
								$ 200.00	
								$ 125.00	
								$ 25.00	
								$ 61.00	
								$ 3,001.00	
								$ -	
								$ -	
$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	**$ 3,001.00**	

Total DERF Eligible Costs This Claim **$ -**

Site Name: *One Hour Martinizing, Main Street, Green Bay*
BRRTS #: *02-05-217276*
Type of Action: *Remedial Action*

TASKS	BUDGET							INVOICES																
Bid / Budgeted Description	Bid / Budgeted Amount	INSERT	Change Order 4/17/2015	Change Order 7/27/2016	Change Order 9/20/2016	Total Approved Budget	Previous Claims (If applicable)	*Probe Tech, 12/13/12*	*Pace Analytical, 12/24/12*	*Pace Analytical, 12/21/12*	*Alpha Terra Science, 1/10/13*	*Alpha Terra Science, 2/8/13*	*Alpha Terra Science, 10/4/13*	*Alpha Terra Science, 11/6/13*	*Alpha Terra Science, 12/23/13*	*Fehr Graham, 4/30/14*	*Fehr Graham, 5/31/14*	*Fehr Graham, 6/30/14*	*Fehr Graham, 7/31/14*	*Fehr Graham, 8/31/14*	*Fehr Graham, 9/30/14*	*Fehr Graham, 10/31/14*	*Fehr Graham, 4/30/15*	*PSI 5/31/15*
								12.4627	*124067044*	*124066962*	*114264*	*114314*	*115006*	*115078*	*115211*	*59616*	*60009*	*60871*	*61207*	*61882*	*62385*	*62915*	*65382*	*367869*
Consultant Costs																								
Task	$ -	$ -				$ -																		
Task 1: RA Report, Access Agreement, Project Management 24 months	$ 6,450.00		$ 4,050.00			$ 10,500.00					$ 1,865.00	$ 100.00	$ 2,486.25	$ 451.25	$ 262.50	$ 225.00			$ 1,425.00	$ 1,162.50	$ 425.00		$ 4,787.50	
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair	$ 3,626.00		$ -			$ 3,626.00					$ 3,329.33	$ 307.50												
Task 3: Data Evaluation and Excavation Specifications, Bidding, Landfill Approval	$ 3,460.00		$ 3,500.00			$ 6,960.00						$ 953.75		$ 475.00	$ 783.75		$ 450.00	$ 225.00		$ 777.50			$ 3,500.00	
Task 4 Excavation and Landfill Disposal, Backfill	$ 2,895.00		$ -			$ 2,895.00																		
Task 5: Post Excavation Groundwater Monitoring (2 Events, 4 wells, over 12 Months)	$ 2,382.00		$ 3,342.00		$ 11,102.00	$ 16,826.00																		
Tasks 6 and 7: Data Evaluation and Documentation Report, Groundwater Monitoring Status Report	$ 5,840.00		$ 2,920.00			$ 8,760.00																$ 765.00		
Task 8: Data Evaluation and Closure Request, GIS Packet	$ 4,440.00		$ -			$ 4,440.00																		
Task 9: Well Abandonment (10 wells, 6 during RA Dig, 4 End))	$ 1,370.00		$ -			$ 1,370.00																		
Task 10: Oversight of Monitoring Well Maintenance Associated with Site Redevelopment				$ 4,925.00		$ 4,925.00																		
						$ -																		
Consultant Cost Total	*$ 30,463.00*	*$ -*				$ 60,302.00	$ -																	
Sub-Contractor Costs																								
Service	$ -	$ -				$ -																		
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair																								
Geoprobe Borings Excavation Limits Defn	$ 1,860.00					$ 1,860.00		$1,785.00																
Laboratory	$ 1,958.00					$ 1,958.00			$ 1,408.00	$ 500.00														
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																								
Excavation Contractor	$ 18,731.30		$ 3,753.70		$ 957.80	$ 23,442.80																	$ 435.00	
Landfill Fees	$ 17,695.80		$ 1,282.20			$ 18,978.00																		
Laboratory	$ 520.00		$ 455.00			$ 975.00																		
Task 5: Post Excavation Groundwater Monitoring (4 Events, 4-10 wells, over 24 Months)																								
Laboratory per Event with Duplicate	$ 500.00		$ 1,190.00		$ 1,300.00	$ 2,990.00																		
Surveyor					$ 1,100.00	$ 1,100.00																		
Sub-Contractor Cost Total	*$ 41,265.10*	*$ -*				*$ 51,303.80*	$ -																	
DERF ELIGIBLE SUB-TOTALS	**$ 71,728.10**	**$ -**				**$ 111,605.80**	**$ -**	**$ 1,785.00**	**$ 1,408.00**	**$ 500.00**	**$ 5,194.33**	**$ 1,361.25**	**$ 2,486.25**	**$ 926.25**	**$ 1,046.25**	**$ 225.00**	**$ 450.00**	**$ 225.00**	**$ 1,425.00**	**$ 1,940.00**	**$ 425.00**	**$ 765.00**	**$ 8,287.50**	**$ 435.00**
Non-DERF Eligible Expenses																								
Task 7 & 8 DNR fees (ineligible)	1,730.00					$ 1,730.00																		
Task 10 DERF Claims (ineligible)	880.00					$ 880.00																		
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																								
Excavation Contractor asphalt	1,000.00					$ 1,000.00																		
Task 11 VPLE (ineligible)																								
Non-DERF Cost Total	*3,610.00*					*3,610.00*	$ -	$ -	$ -	$ -	$ -	$ -		$ -										
INVOICE GRAND TOTAL	**$ 75,338.10**					**$ 115,215.80**	**$ -**	**$ 1,785.00**	**$ 1,408.00**	**$ 500.00**	**$ 5,194.33**	**$ 1,361.25**	**$ 2,486.25**	**$ 926.25**	**$ 1,046.25**	**$ 225.00**	**$ 450.00**	**$ 225.00**	**$ 1,425.00**	**$ 1,940.00**	**$ 425.00**	**$ 765.00**	**$ 8,287.50**	**$ 435.00**
Check Numbers								237191	238190	245523						286151	289029	291671	294696	298134	302334	350106	2964	2975
Reciept											240158	242243	264979	268398	271959									

Site Name: *One Hour Martinizing, Main Street, Green Bay*
BRRTS #: *02-05-217276*
Type of Action: *Remedial Action*

TASKS	BUDGET																								
Bid / Budgeted Description	Bid / Budgeted Amount	INSERT	Change Order 4/17/2015	Change Order 7/27/2016	Change Order 9/20/2016	Total Approved Budget	Previous Claims (If applicable)	*Drillers Service & Supply 6/30/2015*	*Foust Excavating, 8/7/15*	*Pace Analytical, 8/18/15*	*Fehr Graham, 8/31/15*	*PSI 8/31/15*	*Pace Analytical, 11/24/15*	*Fehr Graham, 11/30/15*	*Advanced Disposal, 12/31/15*	*Fehr Graham, 1/31/16*	*Fehr Graham, 3/1/16*	*Fehr Graham, 5/2/16*	*Fehr Graham, 6/1/16*	*Pace Analytical, 7/1/16*	*Fehr Graham, 7/1/16*	*Fehr Graham, 8/1/16*	*Fehr Graham, 9/1/16*	*Fehr Graham, 10/3/16*
								45043	*13706*	*1540008854*	*67412*	*386965*	*1540013397*	*68747*	*B50000012170*	*68747*								
Consultant Costs																								
Task	$ -	$ -				$ -																		
Task 1: RA Report, Access Agreement, Project Management 24 months	$ 6,450.00		$ 4,050.00			$ 10,500.00																		
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair	$ 3,626.00		$ -			$ 3,626.00																		
Task 3: Data Evaluation and Excavation Specifications, Bidding, Landfill Approval	$ 3,460.00		$ 3,500.00			$ 6,960.00																		
Task 4 Excavation and Landfill Disposal, Backfill	$ 2,895.00		$ -			$ 2,895.00					$ 2,895.00													
Task 5: Post Excavation Groundwater Monitoring (2 Events, 4 wells, over 12 Months)	$ 2,382.00		$ 3,342.00		$ 11,102.00	$ 16,826.00								$ 2,862.00							$ 1,575.00			$ 2,041.00
Tasks 6 and 7: Data Evaluation and Documentation Report, Groundwater Monitoring Status Report	$ 5,840.00		$ 2,920.00			$ 8,760.00					$ 4,316.00			$ 269.00			$ 675.00	$ 42.50				$ 1,865.00		
Task 8: Data Evaluation and Closure Request, GIS Packet	$ 4,440.00		$ -			$ 4,440.00																		
Task 9: Well Abandonment (10 wells, 6 during RA Dig, 4 End))	$ 1,370.00		$ -			$ 1,370.00																		
Task 10: Oversight of Monitoring Well Maintenance Associated with Site Redevelopment				$ 4,925.00		$ 4,925.00																	$ 1,285.72	
						$ -																		
Consultant Cost Total	*$ 30,463.00*	*$ -*				$ 60,302.00	$ -																	
Sub-Contractor Costs																								
Service	$ -	$ -				$ -																		
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair																								
Geoprobe Borings Excavation Limits Defn	$ 1,860.00					$ 1,860.00																		
Laboratory	$ 1,958.00					$ 1,958.00																		
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																								
Excavation Contractor	$ 18,731.30		$ 3,753.70		$ 957.80	$ 23,442.80		$ 161.30	$ 18,414.33			$ 720.00												
Landfill Fees	$ 17,695.80		$ 1,282.20			$ 18,978.00									$ 18,200.71									
Laboratory	$ 520.00		$ 455.00			$ 975.00				$ 975.00														
Task 5: Post Excavation Groundwater Monitoring (4 Events, 4-10 wells, over 24 Months)																								
Laboratory per Event with Duplicate	$ 500.00		$ 1,190.00		$ 1,300.00	$ 2,990.00							$ 780.00							$ 520.00				
Surveyor					$ 1,100.00	$ 1,100.00																		
Sub-Contractor Cost Total	*$ 41,265.10*	*$ -*				*$ 51,303.80*	$ -																	
DERF ELIGIBLE SUB-TOTALS	**$ 71,728.10**	**$ -**				**$ 111,605.80**	**$ -**	**$ 161.30**	**$ 18,414.33**	**$ 975.00**	**$ 7,211.00**	**$ 720.00**	**$ 780.00**	**$ 3,131.00**	**$ 18,200.71**	**$ -**	**$ 675.00**	**$ 42.50**	**$ -**	**$ 520.00**	**$ 1,575.00**	**$ 1,865.00**	**$ 1,285.72**	**$ 2,041.00**
Non-DERF Eligible Expenses																								
Task 7 & 8 DNR fees (ineligible)	1,730.00					$ 1,730.00																		
Task 10 DERF Claims (ineligible)	880.00					$ 880.00										$ 527.50	$ 137.50	$ 100.00						
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																								
Excavation Contractor asphalt	1,000.00					$ 1,000.00																		
Task 11 VPLE (ineligible)																		$ 1,000.00	$ 800.00					
Non-DERF Cost Total	*3,610.00*					*3,610.00*	$ -																	
INVOICE GRAND TOTAL	**$ 75,338.10**					**$ 115,215.80**	**$ -**	**$ 161.30**	**$ 18,414.33**	**$ 975.00**	**$ 7,211.00**	**$ 720.00**	**$ 780.00**	**$ 3,131.00**	**$ 18,200.71**	**$ 527.50**	**$ 812.50**	**$ 1,142.50**	**$ 800.00**	**$ 520.00**	**$ 1,575.00**	**$ 1,865.00**	**$ 1,285.72**	**$ 2,041.00**
Check Numbers								2976	355207	355208	355824	357209	358075	358074	358185	Ineligible								
Reciept																		1142.5	800					

Site Name: *One Hour Martinizing, Main Street, Green Bay*
BRRTS #: *02-05-217276*
Type of Action: *Remedial Action*

Dry Cleaner Environmental Response Program
Reimbursement Cost Detail Linking Spreadsheet Form 4400-214D (R 05/

TASKS	BUDGET															DERF COST BREAKOUT (this claim)								
Bid / Budgeted Description	Bid / Budgeted Amount	INSERT	Change Order 4/17/2015	Change Order 7/27/2016	Change Order 9/20/2016	Total Approved Budget	Previous Claims (If applicable)	*Pace Analytical, 10/5/16*	*JLS, 10/19/16*	*Fehr Graham, 11/1/16*	*Fehr Graham, 12/1/16*	*Pace Analytical, 12/28/16*	*Fehr Graham, 1/3/17*	*Fehr Graham, 1/31/17*	INSERT	Total Invoiced Costs	A Soil Investigation	B Soil Remediation	C Groundwater Investigation	D Groundwater Remediation	E Air/Vapor Investigation	F Air/Vapor Remediation	G Lab & Other Analysis	H Miscellaneous Costs	Budget Remaining Use (-) to indicate cost over-run
Consultant Costs																									
Task	$ -	$ -				$ -										$ -									$ -
Task 1: RA Report, Access Agreement, Project Management 24 months	$ 6,450.00		$ 4,050.00			$ 10,500.00										$ 13,190.00	$ 6,595.00		$ 6,595.00						$ (2,690.00)
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair	$ 3,626.00		$ -			$ 3,626.00										$ 3,636.83	$ 1,818.42		$ 1,818.42						$ (10.83)
Task 3: Data Evaluation and Excavation Specifications, Bidding, Landfill Approval	$ 3,460.00		$ 3,500.00			$ 6,960.00										$ 7,165.00	$ 3,582.50		$ 3,582.50						$ (205.00)
Task 4 Excavation and Landfill Disposal, Backfill	$ 2,895.00		$ -			$ 2,895.00										$ 2,895.00		$ 2,895.00							$ -
Task 5: Post Excavation Groundwater Monitoring (2 Events, 4 wells, over 12 Months)	$ 2,382.00		$ 3,342.00		$ 11,102.00	$ 16,826.00				$ 3,407.29	$ 330.00		$ 1,971.00	$ 3,152.50		$ 15,338.79			$ 15,338.79						$ 1,487.21
Tasks 6 and 7: Data Evaluation and Documentation Report, Groundwater Monitoring Status Report	$ 5,840.00		$ 2,920.00			$ 8,760.00								$ 827.50		$ 8,760.00	$ 4,380.00		$ 4,380.00						$ -
Task 8: Data Evaluation and Closure Request, GIS Packet	$ 4,440.00		$ -			$ 4,440.00										$ -									$ 4,440.00
Task 9: Well Abandonment (10 wells, 6 during RA Dig, 4 End))	$ 1,370.00		$ -			$ 1,370.00										$ -									$ 1,370.00
Task 10: Oversight of Monitoring Well Maintenance Associated with Site Redevelopment				$ 4,925.00		$ 4,925.00										$ 1,285.72									$ 4,925.00
						$ -										$ -									$ -
Consultant Cost Total	*$ 30,463.00*	*$ -*				$ 60,302.00	$ -									*$ 52,271.34*									*$ 8,030.66*
Sub-Contractor Costs																									
Service	$ -	$ -				$ -										$ -									$ -
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair																$ -									$ -
Geoprobe Borings Excavation Limits Defn	$ 1,860.00					$ 1,860.00										$1,785.00	$ 1,785.00								$ 75.00
Laboratory	$ 1,958.00					$ 1,958.00										$ 1,908.00							$ 1,908.00		$ 50.00
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																$ -									$ -
Excavation Contractor	$ 18,731.30		$ 3,753.70		$ 957.80	$ 23,442.80										$ 19,730.63		$ 19,730.63							$ 3,712.17
Landfill Fees	$ 17,695.80		$ 1,282.20			$ 18,978.00										$ 18,200.71		$ 18,200.71							$ 777.29
Laboratory	$ 520.00		$ 455.00			$ 975.00										$ 975.00							$ 975.00		$ -
																$ -									
Task 5: Post Excavation Groundwater Monitoring (4 Events, 4-10 wells, over 24 Months)																$ -									
Laboratory per Event with Duplicate	$ 500.00		$ 1,190.00		$ 1,300.00	$ 2,990.00		$ 600.00				$ 550.00				$ 2,450.00							$ 2,450.00		$ 540.00
Surveyor					$ 1,100.00	$ 1,100.00			$ 1,100.00							$ 1,100.00									
Sub-Contractor Cost Total	*$ 41,265.10*	*$ -*				*$ 51,303.80*	$ -									*$ 46,149.34*									*$ 4,614.46*
DERF ELIGIBLE SUB-TOTALS	**$ 71,728.10**	**$ -**				**$ 111,605.80**	**$ -**	**$ 600.00**	**$ 1,100.00**	**$ 3,407.29**	**$ 330.00**	**$ 550.00**	**$ 1,971.00**	**$ 3,980.00**	**$-**	**$ 98,420.68**	**$ 18,160.92**	**$ 40,826.34**	**$ 31,714.71**	**$ -**	**$ -**	**$ -**	**$ 5,333.00**	**$ -**	**$ 12,645.12**
Non-DERF Eligible Expenses																									
Task 7 & 8 DNR fees (ineligible)	1,730.00					$ 1,730.00										$ -									
Task 10 DERF Claims (ineligible)	880.00					$ 880.00										$ 765.00									
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,																									
Excavation Contractor asphalt	1,000.00					$ 1,000.00																			
Task 11 VPLE (ineligible)																									
Non-DERF Cost Total	*3,610.00*					*3,610.00*	$ -									*$ 765.00*									
INVOICE GRAND TOTAL	**$ 75,338.10**					**$ 115,215.80**	**$ -**	**$ 600.00**	**$ 1,100.00**	**$ 3,407.29**	**$ 330.00**	**$ 550.00**	**$ 1,971.00**	**$ 3,980.00**	**##**	**$ 99,185.68**									

Total DERF Eligible Costs This Claim **$ 96,034.96**

WARNING - Double Check Total Invoiced Costs column to DERF Cost Breakout figures - possible errors

Check Numbers
Reciept

Mainly VPLE stuff - ineligible

Site Name: *One Hour Martinizing, Main Street, Green Bay*

BRRTS #: *02-05-217276* **12)**

Type of Action: *Remedial Action*

TASKS	BUDGET							
Bid / Budgeted Description	Bid / Budgeted Amount	INSERT	Change Order 4/17/2015	Change Order 7/27/2016	Change Order 9/20/2016	Total Approved Budget	Previous Claims (If applicable)	% Task Complete, Remarks
Consultant Costs								
Task	$ -	$ -				$ -		Task % Complete
Task 1: RA Report, Access Agreement, Project Management 24 months	$ 6,450.00		$ 4,050.00			$ 10,500.00		125.62%
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair	$ 3,626.00		$ -			$ 3,626.00		100.30%
Task 3: Data Evaluation and Excavation Specifications, Bidding, Landfill Approval	$ 3,460.00		$ 3,500.00			$ 6,960.00		102.95%
Task 4 Excavation and Landfill Disposal, Backfill	$ 2,895.00		$ -			$ 2,895.00		100.00%
Task 5: Post Excavation Groundwater Monitoring (2 Events, 4 wells, over 12 Months)	$ 2,382.00		$ 3,342.00		$ 11,102.00	$ 16,826.00		91.16%
Tasks 6 and 7: Data Evaluation and Documentation Report, Groundwater Monitoring Status Report	$ 5,840.00		$ 2,920.00			$ 8,760.00		100.00%
Task 8: Data Evaluation and Closure Request, GIS Packet	$ 4,440.00		$ -			$ 4,440.00		0.00%
Task 9: Well Abandonment (10 wells, 6 during RA Dig, 4 End))	$ 1,370.00		$ -			$ 1,370.00		0.00%
Task 10: Oversight of Monitoring Well Maintenance Associated with Site Redevelopment					$ 4,925.00	$ 4,925.00		
						$ -		
Consultant Cost Total	*$ 30,463.00*	*$ -*				$ 60,302.00	$ -	86.68%
Sub-Contractor Costs								
Service	$ -	$ -				$ -		
Task 2: Pre-Excavation Soil Borings (12) and Groundwater Sampling (10 wells) , Well Repair								
Geoprobe Borings Excavation Limits Defn	$ 1,860.00					$ 1,860.00		95.97%
Laboratory	$ 1,958.00					$ 1,958.00		97.45%
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,								
Excavation Contractor	$ 18,731.30		$ 3,753.70		$ 957.80	$ 23,442.80		84.16%
Landfill Fees	$ 17,695.80		$ 1,282.20			$ 18,978.00		95.90%
Laboratory	$ 520.00		$ 455.00			$ 975.00		100.00%
Task 5: Post Excavation Groundwater Monitoring (4 Events, 4-10 wells, over 24 Months)								
Laboratory per Event with Duplicate	$ 500.00		$ 1,190.00		$ 1,300.00	$ 2,990.00		81.94%
Surveyor					$ 1,100.00	$ 1,100.00		
Sub-Contractor Cost Total	*$ 41,265.10*	*$ -*				*$ 51,303.80*	$ -	89.95%
DERF ELIGIBLE SUB-TOTALS	**$ 71,728.10**	**$ -**				**$ 111,605.80**	**$ -**	88.19%
Non-DERF Eligible Expenses								
Task 7 & 8 DNR fees (ineligible)	1,730.00					$ 1,730.00		!!
Task 10 DERF Claims (ineligible)	880.00					$ 880.00		
Task 4 Excavation and Landfill Disposal, Backfill Two Areas, 540 tons,								
Excavation Contractor asphalt	1,000.00					$ 1,000.00		
Task 11 VPLE (ineligible)								
Non-DERF Cost Total	*3,610.00*					*3,610.00*	$ -	
INVOICE GRAND TOTAL	**$ 75,338.10**					**$ 115,215.80**	**$ -**	

Check Numbers
Reciept