



QUARTERLY GROUNDWATER MONITORING REPORT

FORMER ONE HOUR MARTINIZING  
1923 MAIN ST  
GREEN BAY, WI

BRRTS # 02-05-217276

Prepared for:  
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2984 Shawano Avenue  
Green Bay, WI 54313

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Prepared by:

Matt Dahlem, PG  
Project Manager / Sr. Engineering Hydrogeologist

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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 is 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 1960'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 dry-cleaning 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 (B10 to B21) located within and outside the former building in December 2012. Groundwater samples from the ten (10) site groundwater monitoring wells (MW-1 to MW-9 and PZ-1) 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). 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 HA1, 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 B16, 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 1.

#### 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 March 2017 are included in this report.

#### Remedial Excavation Activities

The excavation activities took place on August 5-6, 2015. 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 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.

Soil chemistry results from the August 2015 remedial excavation have been summarized on Table A.2 and Figure 2. 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 grade 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.

## 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 fluviially deposited between about 12,500 and 14,000 years ago.<sup>1</sup> 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<sup>2</sup> and are bounded below by Ordovician Prairie du Chien Group bedrock, consisting primarily of dolomite with some sandstone and shale.<sup>3</sup>

#### *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 B) 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 B 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

The depths to water measurements and groundwater elevations from this sampling event are summarized in Table A.6. The depth to groundwater on the nearly flat-lying Property ranged between 4.49 and 6.78 feet below grade. The direction of groundwater flow is to the northwest, toward the East River (Figure 3).

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<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> Mudrey, M.G., Brown, B.A., and Greenberg, J.K., 1982, Bedrock Geologic Map of Wisconsin, WGNHS

The highest hydraulic head was observed at GEC TW-4 (597.37-feet amsl) and the lowest hydraulic head was observed at MW-9 (593.91-feet amsl). The hydraulic gradient is a vector gradient between two or more hydraulic head measurements over the length of the flow path where:

$$i = \frac{dh}{dl} = \frac{h_2 - h_1}{\text{length}}$$

*i* = hydraulic gradient GEC TW-4 to MW-9  
*dh* = difference between two hydraulic heads  
*dl* = flow path length between the two wells

$$i = \frac{597.37 \text{ feet} - 593.91 \text{ feet}}{130 \text{ feet}} = 0.027 \text{ feet/foot}$$

### 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 GEC TW-4 to MW-9 (0.027 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, silty clay, sandy silt and clayey silt. These soils most likely have low hydraulic conductivities, as all wells 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<sup>4</sup>. To provide an estimate, a mean value of  $10^{-5}$  was used for calculation purposes, which is equivalent to 0.00001 cm/sec, or 0.028 feet per day.

According to Morris and Johnson (1967)<sup>5</sup>, the silt, silty clay, sandy silt and clayey silt, which is the primary formation in which the water column resides, has a mean porosity percentage of 45%.

$$V = \frac{(0.028 \frac{ft}{day})(0.027 \frac{ft}{ft})}{0.45}$$

$$V = 0.002 \text{ feet/day} = 0.73 \text{ feet/year}$$

<sup>4</sup> Fetter, C. W. (1994). Applied Hydrogeology, 3rd ed. Upper Saddle River, NJ: Prentice Hall, Inc.

<sup>5</sup> 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.

The estimated groundwater velocity at the site is considered low as it is  $\leq 1$ -foot per day.<sup>6</sup>

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 hydrogeological factors. The water level measurements presented in this report are the levels that were measured at the time of Fehr Graham's field activities.

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<sup>6</sup>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 groundwater monitoring well network for VOCs on five occasions (November 2015, June 2016, September 2016, December 2016 and March 2017). In addition to the existing site groundwater monitoring 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, GEC TW-4 and GEC TW-5. The groundwater chemistry results indicated the following:

- PCE exceeds the ES in groundwater monitoring well SMW-3 and exceeds the PAL in groundwater monitoring wells MW-1 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 exceedance for TCE in MW-9 are extremely low and falls 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 4. The laboratory report is included in Appendix C.

#### 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, 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 chlorinated solvent degradation in the aquifer at the former OHM site (Table A.7).

Temperature: Effective biodegradation can generally occur within a temperature range of 5°C to 45°C<sup>7</sup>. The optimal temperature for complete reductive dechlorination of PCE to ethene is between 10 and 30°C<sup>8</sup>. Groundwater temperatures at the site ranged between 5.86 and 11.36°C, indicating conditions are right for biological activity and reductive dechlorination.

pH: Most natural ground waters have pH of 4 to 9, with the optimal range for microbial activity in groundwater being 5 to 9<sup>9</sup>. Groundwater at the site had a pH range between 6.51 and 7.10 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<sup>10</sup>. The DO measured in the site groundwater ranges from 0.67 to 6.24 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)<sup>11</sup>. 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<sup>12</sup>. The ORP in the site groundwater ranges between 79.7 and 165.2 mV. The positive ORP values generally indicate the groundwater is oxidizing (aerobic).

DO/ORP: “DO and ORP readings need to be agreeable for oxidizing conditions. Readings should show a DO value less than 1mg/L when ORP is negative or a value greater than 1 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<sup>13</sup>. Typical ranges of values for groundwater field measurements is 50 to 50,000 microSiemens per centimeter ( $\mu\text{S}/\text{cm}$ )<sup>14</sup>. The site wells had values between 400 and 6,063  $\mu\text{S}/\text{cm}$ .

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<sup>7</sup> Colorado Department of Labor and Employment – Division of Oil and Public Safety, 2002, Monitored Natural Attenuation in Groundwater Guidance Document. 40 p.

<sup>8</sup> 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.

<sup>9</sup> WDNR Guidance Memorandum, 1993, Natural Biodegradation as a Remedial Action Option-Interim Guidance. Wisconsin Release News 3(1).

<sup>10</sup> 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.

<sup>11</sup> Wiedemeier, T.H., 1999, Natural Attenuation of Fuels and Chlorinated Solvents in the Subsurface. John Wiley & Sons. 617 pages.

<sup>12</sup> American Petroleum Institute, 1997, Methods for Measuring Indicators of Intrinsic Bioremediation: Guidance Manual. Publ. No. 4658.

<sup>13</sup> Freeze, R.A. and Cherry, J.A., 1979, Groundwater. Prentice-Hall, Englewood Cliffs, NJ.

<sup>14</sup> Sanders, L.L., 1998, A Manual of Field Hydrogeology: Prentice-Hall, NJ, 381p.

## 4.0 DISCUSSION

### 4.1 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 (4,150 µg/L in March 2017 compared to 13,700 µg/L in December 2012) and for TCE (1,050 µg/l in March 2017 compared to 1,500 µg/L in December 2012). The results for all wells are shown 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 four out of the last six post-excavation sampling events. Degradation of PCE to TCE to cis-1,2-DCE can be readily observed in SMW-3 since the November 2015 remedial excavations.

MW-7 is located hydraulically down-gradient from the excavation area that contained the location of the dry cleaning 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 are currently slightly lower than detected in December 2012 sample at MW-7 (2.0 µg/L in December 2012 and 1.7 µg/L in March 2017) while concentrations of TCE remained similar to the December 2012 sample at MW-9 (<0.48 µg/L in December 2012 and 0.58J µg/L in March 2017).

MW-1 is side gradient to the contaminant source and was above the PAL for PCE groundwater contamination. Concentrations of PCE are currently slightly lower than detected in December 2012 sample at MW-1 (6.5 µg/L in December 2012 and 4.8 µg/L in March 2017). This may be a result of a slight shifts in the groundwater flow direction over time. To note, the current PCE concentrations in MW-1 are significantly lower than that from the initial June 1999 results of 71.9 µg/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 (MW-6 and MW-9) and deeper wells (PZ-1). Table A.1 and Figure 4 illustrate the groundwater findings.

## 4.2 Geochemical Indicators

Under strictly anaerobic conditions, both TCE and PCE are subject to reductive dechlorination<sup>15</sup>. 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 down 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.<sup>16</sup>

## 4.3 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, TCE and cis-1,2-DCE in monitoring well SMW-3. These plots were assessed to determine if contaminant trends are stable or decreasing. The logarithm (to the base 10) of the PCE concentration data were plotted as a function of time (in days) in order to establish a trend<sup>17</sup>. This trend line is the semi-log<sub>10</sub>-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 D, 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.

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<sup>15</sup> 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.

<sup>16</sup> Strauss, P., 1998, Natural Attenuation of Organic Compounds, Center for Public Environmental Oversight

<sup>17</sup> WDNR (2014). Guidance On Natural Attenuation For Petroleum Releases. PUB RR-614. 98 pages.

## 5.0 POTENTIAL CONTAMINANT RECEPTORS

Potential contaminant migration pathways of concern include direct contact with contaminated soil via ingestion, migration of contaminants to groundwater (which may be ingested by humans), vapor migration or inhalation of particulates, and the potential migration of contaminants to surface water.

### 5.1 Protection from Direct Contact with Soil Contaminants

Direct contact concerns usually apply to those soils located in the upper 4-feet of the ground surface that exceed WDNR non-industrial direct contact values. As shown on Figure 2, 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). In addition, exposure to contaminated soil is not a significant migratory pathway of concern, as human contact to soil is limited by the site conditions, including the presence of asphalt, concrete, gravel and vegetative barriers across the property. Surface soils at the site are not impacted and do not pose a health concern unless redevelopment of the property brings people into direct contact with contamination.

### 5.2 Potential Groundwater Receptors

The main migratory pathway of concern is migration of contaminants to the groundwater. Utility corridors may intersect areas of soil or groundwater contamination and provide a preferential contaminant migration pathway. Sanitary and storm sewers, municipal water, and natural gas service the site via underground piping. The site has 2-8-feet of fill material consisting of sand, silt, clayey sand, silty clay, sandy silt, clayey silt and silty gravel underlain by low permeability of native silt, silty clay, sandy silt and clayey silt. Depending on the depth of the underground piping, the utility corridors may be more permeable than the surrounding native soil and could provide a preferential contaminant migration pathway. However, offsite migration is also inhibited by this low permeability as well. Based on soil and groundwater analytical data collected on site, the contaminant plumes do not appear to be migrating along utility corridors.

Additionally, there are no known private water supply wells functional within a ½-mile of the site. All homes and businesses in Green Bay are connected to the municipal supply. The City of Green Bay uses surface water from Lake Michigan to supply virtually all of their drinking water needs. Given the hydrogeological conditions at the property and the drinking water source for the area, the site does not appear to pose a risk to human health via groundwater ingestion.

### 5.3 Potential Surface Water Receptors

The site is located approximately 0.90-miles east of the East River. The East River discharges into the Fox River a point approximately 2.5-miles northeast of the site. The Fox River discharges into Lake Michigan a point approximately 1.3-miles north-northeast of the confluence of the East and Fox Rivers. Based on the analytical results and distance from the site, it is unlikely the site will adversely affect any surface water.

### 5.4 Potential Vapor Migration or Inhalation of Particulates

As part of redevelopment activities, a sub-slab vapor mitigation system was installed beneath the current “Familia Dentistry” building by American Radon Reduction. The system consists of

a piping network beneath the slab-on-grade “Familia Dentistry” building consisting of 3-inch diameter Schedule 30 PVC that is connected to a 4-inch diameter Schedule 40 4-inch riser pipe extending through the roof line that is connected to a “Radon Away” electric fan blower. The piping was bedded in approximately 10 to 12-inches of clear stone gravel. Two sub-slab vapor testing ports were installed by GEC personnel within the northeastern (VP-1) and southwestern (VP-2) portions of the building.

Subslab vapors beneath the floor of the current “Familia Dentistry” building were tested as part of the site investigation activities by GEC. Laboratory samples were obtained from two locations (VP-1 and VP-2) on September 2, 2016 and January 30, 2017.

The subslab laboratory analytical results from the most recent sampling event indicate the presence of various compounds at low microgram per cubic meter levels. The subslab vapor detections have been compared to standards for inhalation of air in a small commercial building, as shown on Table A.4. Standards were derived using the risk-based assessment methods of the United States Environmental Protection Agency (USEPA) and the modification of these values that has been determined by the WDNR and the Wisconsin Department of Health and Family Services (WDHFS). As shown on Table A.4, comparison of the detected subslab compounds during GEC’s most recent sampling event (January 30, 2017) are all below the comparative standards of the WDNR for subslab air. So currently, there are no elevated levels of VOCs in the subslab air beneath the building.

Additional subslab vapor information can be found in GEC’s “VPLE Site Investigation Update” dated September 26, 2016. GEC submitted the most recent vapor analytical data to Ms. Kristin DuFresne of the WDNR on February 24, 2017.

## 6.0 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 4.49 and 6.78 feet below grade. The direction of groundwater flow is to the 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. There is no unsaturated soil above direct contact standards / within upper 4 feet at the site.
4. 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 (Appendix A).
5. Post-excavation groundwater samples of the existing groundwater monitoring well network illustrate that concentrations at the site have shown improvements since remedial excavation activities in August 2015. 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.

## 7.0 RECOMMENDATIONS

Fehr Graham recommends one additional round of groundwater sampling for VOCs and natural attenuation parameters be conducted at site monitoring wells MW-1 through MW-9, PZ-1, GEC TW-4, and GEC TW-5 in June 2017. Following this sampling event, discussions will be held with the WDNR regarding the results and whether case closure can be pursued.

The site is in the DERF program, and thus far, Fehr Graham and other subcontractors have invoiced approximately \$102,556.68 in expenses on this project, with a total DERF approved remedial action budget of \$128,013.80.

Future charges are anticipated to be fully covered by DERF up to \$200,000. 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.



## 8.0 INTERPRETATION 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.

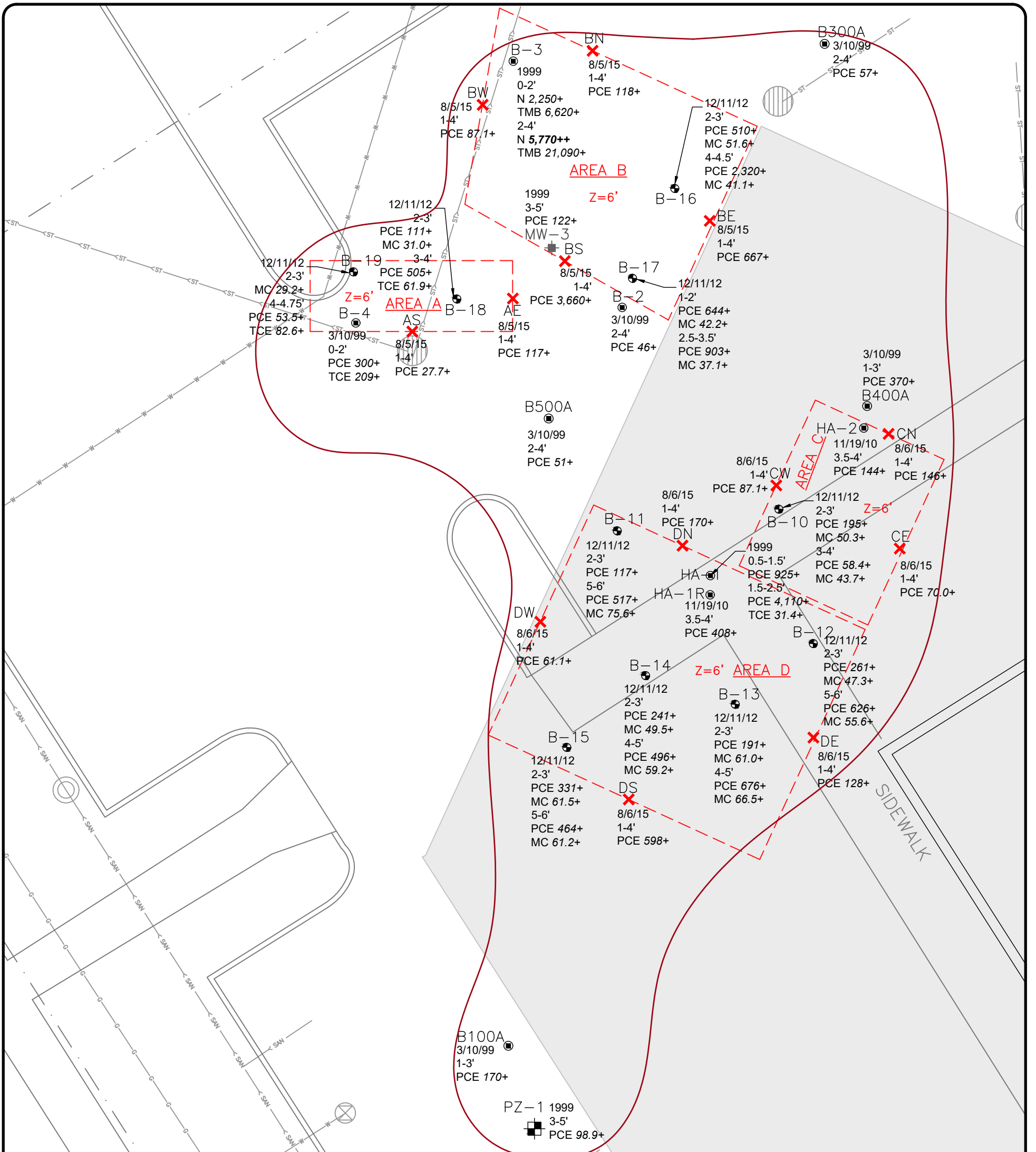
## Figures

Figure 1: Pre-Remedial Soil Contamination

Figure 2: Remaining Soil Contamination

Figure 3: Groundwater Elevation March 21, 2017

Figure 4: Groundwater Chemistry March 21, 2017

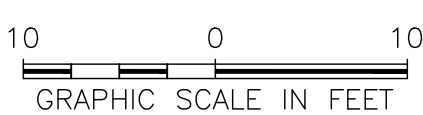
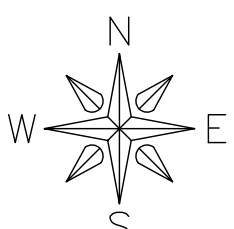


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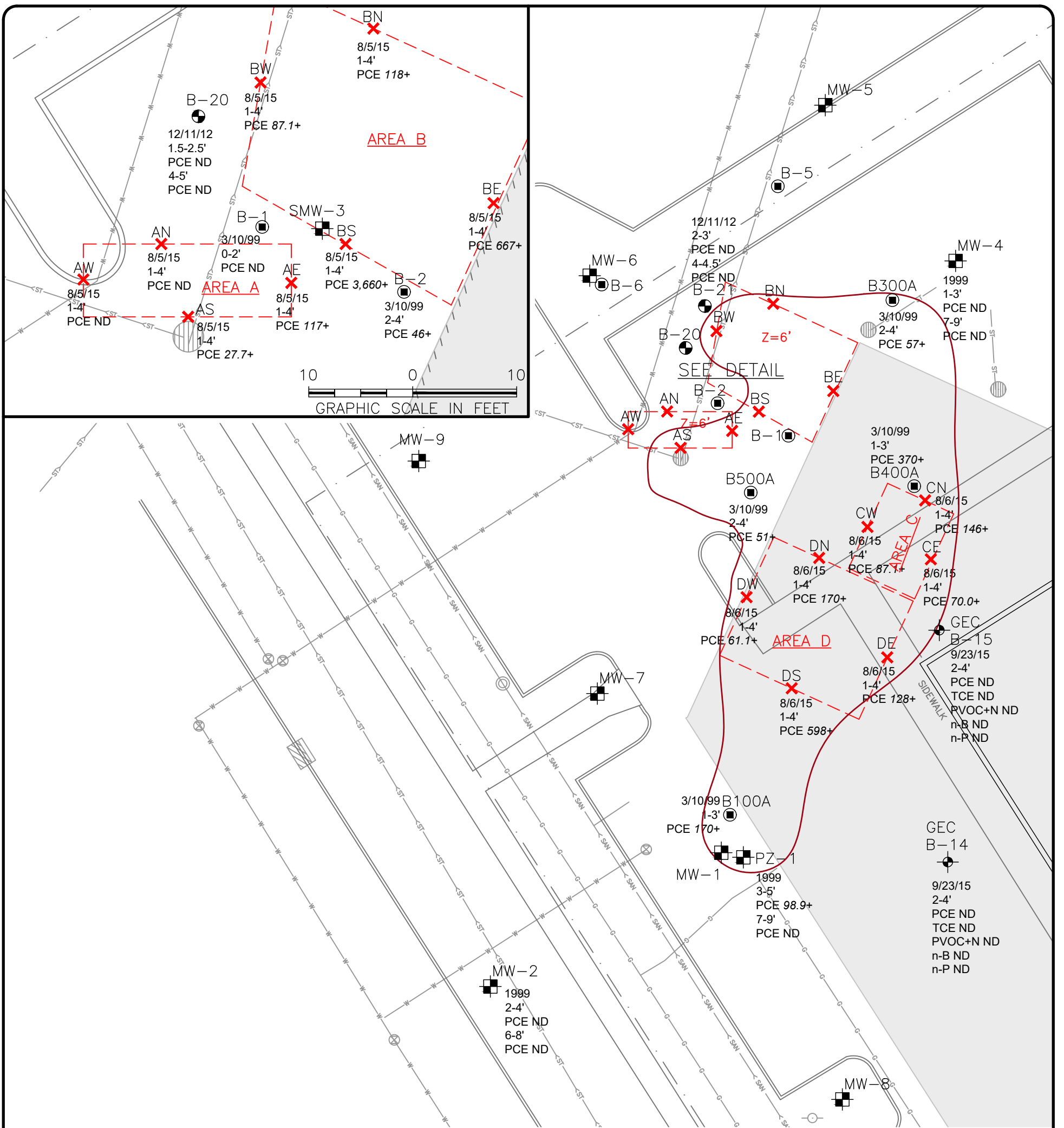
- SOIL BORING (PREVIOUS CONSULTANTS)
- MONITORING WELL / PIEZOMETER (ABANDONED)
- SOIL BORING (ALPHA TERRA / FEHR GRAHAM)
- ✗ EXCAVATION SAMPLE
- G— GAS LINE
- ST— STORM SEWER
- SAN— SANITARY SEWER
- W— WATERMAIN
- ⊗ CATCH BASIN
- ⊙ POWER POLE
- ⊗ WATER VALVE

- 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



|  |   |   |
|--|---|---|
| <b>FEHR GRAHAM</b><br>ENGINEERING & ENVIRONMENTAL<br>ONE HOUR MARTINIZING<br>1923 MAIN STREET<br>GREEN BAY, WI 54302<br>DRWN: MKH    DATE: 10/08/16    APPD: XXX | ILLINOIS<br>IOWA<br>WISCONSIN                                 | TITLE:<br><b>PRE-REMEDIAL<br/>         SOIL CONTAMINATION</b> |
|  | BRRTS: 02-05-217276<br>JOB NO.: 14-1138<br>PLOT DATE: 5/16/17 | FIGURE:<br><b>1</b>   |

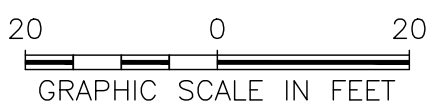
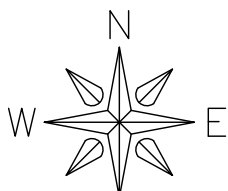


**LEGEND**

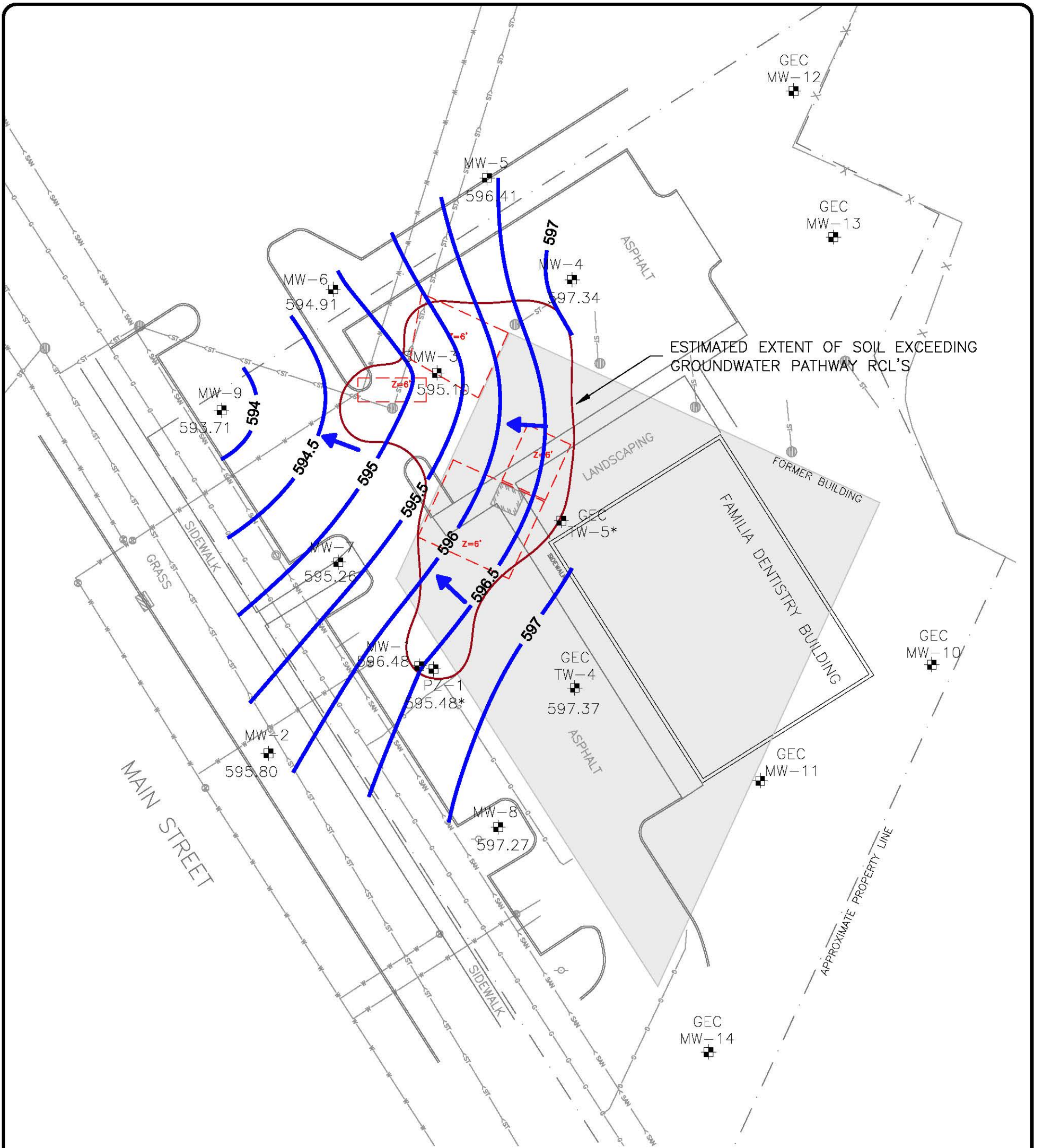
- SOIL BORING (PREVIOUS CONSULTANTS)
- MONITORING WELL / PIEZOMETER (ABANDONED)
- SOIL BORING (ALPHA TERRA / FEHR GRAHAM)
- ✗ EXCAVATION SAMPLE
- G— GAS LINE
- ST— STORM SEWER
- SAN— SANITARY SEWER
- W— WATERMAIN
- ⊗ CATCH BASIN
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- 12/11/12 SAMPLE DATE
- 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
- ND NO DETECT

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



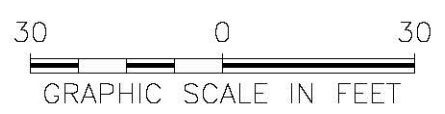
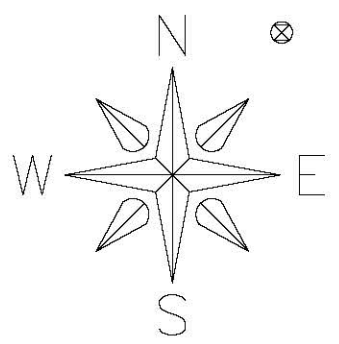
|  |   |
|--|---|
| <b>FEHR GRAHAM</b><br>ENGINEERING & ENVIRONMENTAL<br>ILLINOIS IOWA WISCONSIN | TITLE:<br><b>REMAINING SOIL CONTAMINATION</b>                 |
|  | BRRTS: 02-05-217276<br>JOB NO.: 14-1138<br>PLOT DATE: 5/16/17 |
| ONE HOUR MARTINIZING<br>1923 MAIN STREET<br>GREEN BAY, WI 54302              | FIGURE:<br><b>2</b>   |
| DRWN: MKH<br>DATE: 10/08/16<br>APPD: XXX                                     |   |



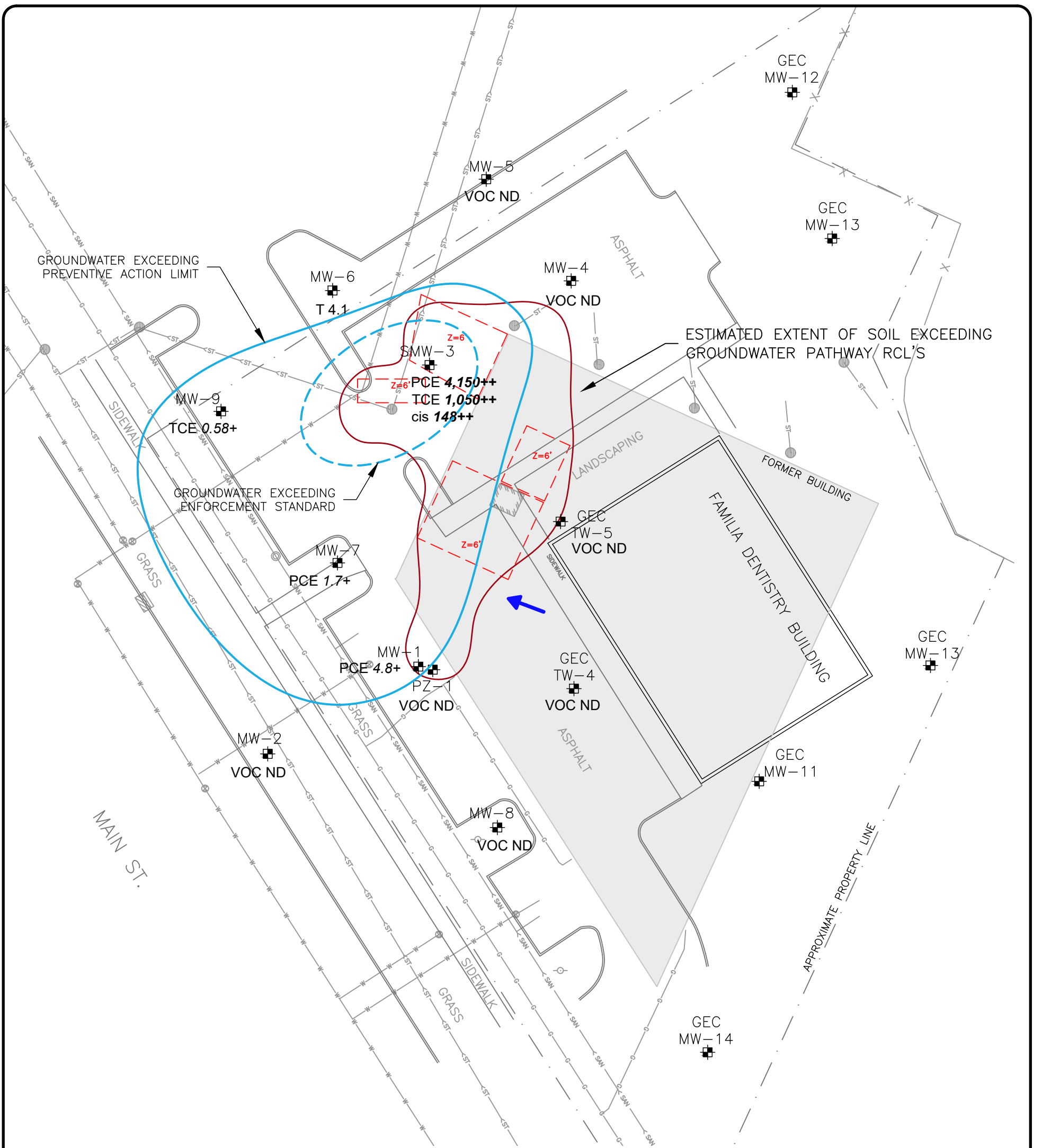
ESTIMATED EXTENT OF SOIL EXCEEDING GROUNDWATER PATHWAY RCL'S

LEGEND

- MW-14 MONITORING WELL
- GAS LINE
- STORM SEWER
- SANITARY SEWER
- 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)
- LOCATION OF FORMER DRY CLEANING MACHINE



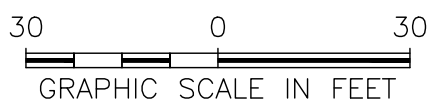
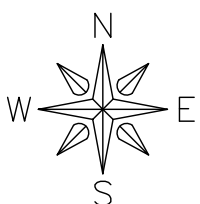
|  |                               |  |              |
|--|-------------------------------|--|--------------|
| <b>FEHR GRAHAM</b><br>ENGINEERING & ENVIRONMENTAL<br>ONE HOUR MARTINIZING<br>1923 MAIN STREET<br>GREEN BAY, WI 54302<br>DRWN: MKH DATE: 10/06/16 APPD: XXX | ILLINOIS<br>IOWA<br>WISCONSIN | TITLE: GROUNDWATER ELEVATION<br>MAR. 21, 2017<br>BRRTS: 02-05-217276<br>JOB NO.: 14-1138<br>PLOT DATE: 5/16/17 | FIGURE:<br>3 |
|  | © 2014 FEHR GRAHAM            |  |              |



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)
- T TOLUENE (ug/L)
- VOC VOLATILE ORGANIC COMPOUNDS
- ITALICS+* EXCEEDS NR140 PREVENTIVE ACTION LIMIT
- BOLD++** EXCEEDS NR140 ENFORCEMENT STANDARD
- ND NO DETECT
- GROUNDWATER FLOW DIRECTION (MAR. 21, 2017)
- REMEDIAL EXCAVATION AUGUST 2015
- ONE HOUR MARTINIZING BUILDING FOOTPRINT (DEMOLISHED)
- LOCATION OF FORMER DRY CLEANING MACHINE



**FEHR GRAHAM** ILLINOIS IOWA WISCONSIN  
ENGINEERING & ENVIRONMENTAL

ONE HOUR MARTINIZING  
1923 MAIN STREET  
GREEN BAY, WI 54302

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

TITLE: GROUNDWATER CHEMISTRY  
MAR. 21, 2017

BRRTS: 02-05-217276

JOB NO.:14-1138

PLOT DATE: 5/16/17

FIGURE:

4

## Tables

Table A.1: Groundwater Analytical Table - VOCs

Table A.2: Soil Analytical Results - VOCs

Table A.4: Vapor Analytical Table - VOCs

Table A.6: Water Level Elevations

Table A.7: Groundwater Natural Attenuation

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 | 3/21/17 |       |
| 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   | 596.48  |       |
| Notes                                    |        |                                   |                                |              |             |         |         |          |             |             |         |          | Dup      |          |          | GEC     |         |         |          |         |       |
| Tetrachloroethene (PCE)                  | (ug/L) | 0.5                               | 5                              | <b>84.7</b>  | <b>71.9</b> | 20      | 16      | 21       | 22          | 17          | 16      | 16       | 19.9     | 17       | 6.5      | 6.8     | 7.6     | 6.1     | 10.1     | 5.8     | 4.8   |
| Trichloroethene (TCE)                    | (ug/L) | 0.5                               | 5                              | <b>1.79P</b> | 0.29P       | <0.21   | <0.48   | <0.48    | <b>0.52</b> | <b>0.60</b> | <0.48   | <0.48    | <0.48    | <0.48    | <0.48    | <0.33   | <0.47   | <0.33   | <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    | <0.26    | <0.45   | <0.26   | <0.26   | <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    | <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   | <0.18 |
| Methylene Chloride                       | (ug/L) | 0.5                               | 5                              | --           | --          | --      | --      | --       | --          | --          | --      | --       | --       | --       | <0.43    | <0.23   | NA      | <0.23   | <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   | <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   | <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   | <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    | <1.5  |
| m&p-Xylene                               | (ug/L) | NS                                | NS                             | --           | --          | --      | --      | --       | --          | --          | --      | --       | --       | --       | <1.8     | <1.0    | <0.9    | <1.0    | <1.0     | <1.0    | <1.0  |
| o-Xylene                                 | (ug/L) | NS                                | NS                             | --           | --          | --      | --      | --       | --          | --          | --      | --       | --       | --       | <0.83    | <0.50   | <2.2    | <0.50   | <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    | <2.5  |
| MTBE                                     | (ug/L) | 12                                | 60                             | --           | --          | --      | --      | --       | --          | --          | --      | --       | --       | --       | <0.61    | <0.17   | <1.1    | <0.17   | <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   | <0.50 |
| 1,3,5-Trimethylbenzene                   | (ug/L) | NS                                | NS                             | --           | --          | --      | --      | --       | --          | --          | --      | --       | --       | --       | <0.83    | <0.50   | <1.5    | <0.50   | <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    | <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   |         |         |          |             |            |         |          |          |          |         |             |             | 4/20/16 | 6/24/16 | 9/22/16 | 12/22/16 | 3/21/17 |          |         |
|--|---------|-----------------------------------|--------------------------------|--------|---------|---------|----------|-------------|------------|---------|----------|----------|----------|---------|-------------|-------------|---------|---------|---------|----------|---------|----------|---------|
| 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 | 3/21/17 |
| 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   | 595.48  |
| Notes                                    |         |                                   |                                |        |         |         |          |             |            |         |          |          |          | GEC     |             |             |         |         |         |          |         |          |         |
| Tetrachloroethene (PCE)                  | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <0.34  | <0.34   | <0.45   | <0.45    | <i>4.8</i>  | <i>15</i>  | <0.45   | <0.45    | <0.45    | <0.45    | <0.50   | NOT SAMPLED | NOT SAMPLED | <0.50   | <0.50   | <0.50   |          |         |          |         |
| Trichloroethene (TCE)                    | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <0.21  | <0.21   | <0.48   | <0.48    | <i>0.56</i> | <i>1.1</i> | <0.48   | <0.48    | <0.48    | <0.48    | <0.33   |             |             | <0.33   | <0.33   | <0.33   | <0.33    |         |          |         |
| cis-1,2-Dichloroethene                   | (ug/L)  | <b>7</b>                          | <b>70</b>                      | <0.19  | <0.19   | <0.83   | <0.83    | <0.83       | <0.83      | <0.83   | <0.83    | <0.83    | <0.26    | <0.26   |             |             | <0.26   | <0.26   | <0.26   | <0.26    |         |          |         |
| trans-1,2-Dichloroethene                 | (ug/L)  | <b>20</b>                         | <b>100</b>                     | --     | --      | --      | --       | --          | --         | --      | --       | --       | <0.89    | <0.26   |             |             | <0.26   | <0.26   | <0.26   | <0.26    |         |          |         |
| Vinyl Chloride                           | (ug/L)  | <i>0.02</i>                       | <b>0.2</b>                     | <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   | <0.18    |         |          |         |
| Methylene Chloride                       | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | --     | --      | --      | --       | --          | --         | --      | --       | --       | <0.43    | <0.23   |             |             | <0.23   | <0.23   | <0.23   | <0.23    |         |          |         |
| Benzene                                  | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <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   | <0.50    |         |          |         |
| Ethylbenzene                             | (ug/L)  | <b>140</b>                        | <b>700</b>                     | <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   | <0.50    |         |          |         |
| Toluene                                  | (ug/L)  | <b>160</b>                        | <b>800</b>                     | <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   | <0.50   | <0.50    |         |          |         |
| Xylenes (TOTAL)                          | (ug/L)  | <b>400</b>                        | <b>2,000</b>                   | <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    | <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)  | <b>10</b>                         | <b>100</b>                     | <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    | <2.5     |         |          |         |
| MTBE                                     | (ug/L)  | <b>12</b>                         | <b>60</b>                      | --     | --      | --      | --       | --          | --         | --      | --       | --       | --       | <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)  | <b>96</b>                         | <b>480</b>                     | <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    | <1.0    |         |          |         |          |         |

**Notes:**  
 NS = No standard established  
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*ITALICS* indicates exceedance of NR 140.10 Preventive Action Limit  
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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   |         |         |          |            |            |         |          |          |          |         |             | GEC   | 6/24/16 | 9/22/16 | 12/22/16 | 3/21/17 |        |        |        |
|--|---------|-----------------------------------|--------------------------------|--------|---------|---------|----------|------------|------------|---------|----------|----------|----------|---------|-------------|-------|---------|---------|----------|---------|--------|--------|--------|
| 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 |             |       |         |         |          |         |        |        |        |
| 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 | 595.80 |
| Notes                                    |         |                                   |                                |        |         |         |          |            |            |         |          |          |          |         |             |       |         |         |          |         |        |        |        |
| Tetrachloroethene (PCE)                  | (ug/L)  | 0.5                               | 5                              | <0.34  | <0.34   | <0.45   | <0.45    | <b>9.8</b> | <b>15</b>  | <0.45   | <0.45    | <0.48    | <0.45    | <0.50   | NOT SAMPLED | <0.50 | <0.50   | <0.50   | <0.50    |         |        |        |        |
| Trichloroethene (TCE)                    | (ug/L)  | 0.5                               | 5                              | <0.21  | <0.21   | <0.48   | <0.48    | <b>0.8</b> | <b>1.2</b> | <0.48   | <0.48    | <0.48    | <0.48    | <0.33   |             | <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   | <0.26    |         |        |        |        |
| trans-1,2-Dichloroethene                 | (ug/L)  | 20                                | 100                            | --     | --      | --      | --       | --         | --         | --      | --       | --       | <0.89    | <0.26   |             | <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   | <0.18    |         |        |        |        |
| Methylene Chloride                       | (ug/L)  | 0.5                               | 5                              | --     | --      | --      | --       | --         | --         | --      | --       | --       | <0.43    | <0.23   |             | <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   | <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   | <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   | <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    | <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    | <0.74    | <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    | <1.0    |          |         |        |        |        |

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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                                     | Groundwater Elevation |                                   |                                | Notes        | 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      |
|  |                       |                                   |                                | 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        | 595.10        |
|  |                       |                                   |                                |              |            |              |              |               |               |              |              |             |               |                                | GEC          |               |              |               |               |               |
| Tetrachloroethene (PCE)                  | (ug/L)                | <i>0.5</i>                        | 5                              | <b>2,600</b> | <b>76</b>  | <b>4,400</b> | <b>2,800</b> | <b>10,000</b> | <b>12,000</b> | <b>4,700</b> | <b>5,200</b> | <b>602</b>  | <b>13,700</b> | REMOVED DURING 2015 EXCAVATION | <b>3,100</b> | <b>760</b>    | <b>1,790</b> | <b>2,450</b>  | <b>3,680</b>  | <b>4,150</b>  |
| Trichloroethene (TCE)                    | (ug/L)                | <i>0.5</i>                        | 5                              | <35.3        | <b>89</b>  | <b>190</b>   | <b>200</b>   | <b>450</b>    | <b>570</b>    | <b>360</b>   | <b>410</b>   | <b>191</b>  | <b>1,500</b>  |                                | <b>504</b>   | <b>197</b>    | <b>425</b>   | <b>616</b>    | <b>785</b>    | <b>1,050</b>  |
| cis-1,2-Dichloroethene                   | (ug/L)                | 7                                 | 70                             | <31          | 1.6        | <21          | <21          | <83           | <170          | <42          | <83          | <b>34.4</b> | <208          |                                | <b>86.5</b>  | <b>24.3</b>   | <b>54.7</b>  | <b>201</b>    | <b>145</b>    | <b>148</b>    |
| trans-1,2-Dichloroethene                 | (ug/L)                | 20                                | 100                            | --           | --         | --           | --           | --            | --            | --           | --           | --          | <222          |                                | <10.3        | 2.22          | <10.3        | <b>18.5 J</b> | <b>10.0 J</b> | <b>12.0 J</b> |
| Vinyl Chloride                           | (ug/L)                | <i>0.02</i>                       | 0.2                            | <23.3        | <b>1.2</b> | <4.5         | <4.5         | <18           | <36           | <9.0         | <18          | <0.9        | <45.0         |                                | <7.0         | <b>0.40 J</b> | <7.0         | <b>5.8 J</b>  | <3.5          | <4.4          |
| Methylene Chloride                       | (ug/L)                | <i>0.5</i>                        | 5                              | --           | --         | --           | --           | --            | --            | --           | --           | --          | <108          |                                | <9.3         | --            | <9.3         | <4.7          | <4.7          | <5.8          |
| Benzene                                  | (ug/L)                | <i>0.5</i>                        | 5                              | <31.3        | <0.19      | <10          | <10          | <41           | <82           | <20          | <41          | <2.0        | <102          |                                | <20.0        | <0.44         | <20.0        | <10.0         | <10.0         | <12.5         |
| 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         | <12.5         |
| 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         | <12.5         |
| 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         | <37.5         |
| m&p-Xylene                               | (ug/L)                | NS                                | NS                             | --           | --         | --           | --           | --            | --            | --           | --           | --          | <450          |                                | <40.0        | <0.9          | <40.0        | <20.0         | <20.0         | <25.0         |
| o-Xylene                                 | (ug/L)                | NS                                | NS                             | --           | --         | --           | --           | --            | --            | --           | --           | --          | <208          |                                | <20.0        | <2.2          | <20.0        | <10.0         | <10.0         | <12.5         |
| Naphthalene                              | (ug/L)                | 10                                | 100                            | <13.7        | <0.082     | <18          | <18          | <74           | <150          | <37          | <74          | <4.4        | <222          |                                | <100         | --            | <100         | <50.0         | <50.0         | <62.5         |
| MTBE                                     | (ug/L)                | 12                                | 60                             | --           | --         | --           | --           | --            | --            | --           | --           | --          | <152          |                                | <7.0         | <1.1          | <7.0         | <3.5          | <3.5          | <4.4          |
| 1,2,4-Trimethylbenzene                   | (ug/L)                | NS                                | NS                             | --           | --         | --           | --           | --            | --            | --           | --           | --          | <242          |                                | <20.0        | <1.6          | <20.0        | <10.0         | <10.0         | <12.5         |
| 1,3,5-Trimethylbenzene                   | (ug/L)                | NS                                | NS                             | --           | --         | --           | --           | --            | --            | --           | --           | --          | <208          |                                | <20.0        | <1.5          | <20.0        | <10.0         | <10.0         | <12.5         |
| 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         | <25.0         |               |

**Notes:**  
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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    |        |            |            |            |          |          |            |               |            |            |               |         |
|--|--------|-----------------------------------|--------------------------------|---------|--------|------------|------------|------------|----------|----------|------------|---------------|------------|------------|---------------|---------|
|  |        |                                   |                                | 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      | 3/21/17 |
| Date                                     |        |                                   |                                | 598.67  | 596.26 | 598.96     | 597.43     | 598.16     | 598.23   | 597.07   | 597.29     | 597.90        | 297.27     | 596.90     | 596.33        | 597.34  |
| Groundwater Elevation                    |        |                                   |                                |         |        |            |            |            |          |          |            | GEC           |            |            |               |         |
| Notes                                    |        |                                   |                                |         |        |            |            |            |          |          |            |               |            |            |               |         |
| Tetrachloroethene (PCE)                  | (ug/L) | <i>0.5</i>                        | 5                              | <0.34   | <0.34  | <i>1.9</i> | <i>2.0</i> | <i>3.0</i> | <0.45    | <0.45    | <i>1.4</i> | <i>0.89 J</i> | <i>1.1</i> | <i>1.3</i> | <i>0.63 J</i> | <0.50   |
| Trichloroethene (TCE)                    | (ug/L) | <i>0.5</i>                        | 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         | <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         | <0.26   |
| trans-1,2-Dichloroethene                 | (ug/L) | 20                                | 100                            | --      | --     | --         | --         | --         | --       | <0.89    | <0.26      | <0.54         | <0.26      | <0.26      | <0.26         | <0.26   |
| Vinyl Chloride                           | (ug/L) | <i>0.02</i>                       | 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         | <0.18   |
| Methylene Chloride                       | (ug/L) | <i>0.5</i>                        | 5                              | --      | --     | --         | --         | --         | --       | <0.43    | <0.23      | --            | <0.23      | <0.23      | <0.23         | <0.23   |
| Benzene                                  | (ug/L) | <i>0.5</i>                        | 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         | <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         | <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         | <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          | <1.5    |
| m&p-Xylene                               | (ug/L) | NS                                | NS                             | --      | --     | --         | --         | --         | --       | <1.8     | <1.0       | <0.9          | <1.0       | <1.0       | <1.0          | <1.0    |
| o-Xylene                                 | (ug/L) | NS                                | NS                             | --      | --     | --         | --         | --         | --       | <0.83    | <0.50      | <2.2          | <0.50      | <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          | <2.5    |
| MTBE                                     | (ug/L) | 12                                | 60                             | --      | --     | --         | --         | --         | --       | --       | <0.17      | <1.1          | <0.17      | <0.17      | <0.17         | <0.17   |
| 1,2,4-Trimethylbenzene                   | (ug/L) | NS                                | NS                             | --      | --     | --         | --         | --         | --       | --       | <0.50      | <1.6          | <0.50      | <0.50      | <0.50         | <0.50   |
| 1,3,5-Trimethylbenzene                   | (ug/L) | NS                                | NS                             | --      | --     | --         | --         | --         | --       | --       | <0.50      | <1.5          | <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      | <1.0          | <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 | MW-5   |            |          |          |          |          |          |         |         |         | 4/20/16 | 6/24/16 | 9/22/16 | 12/22/16 | 3/21/17 |
|--|-----------------------|-----------------------------------|--------------------------------|--------|------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|----------|---------|
| Date                                     | Groundwater Elevation |                                   |                                | 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 |         |         |         |          |         |
| Notes                                    |                       |                                   |                                |        |            |          |          |          |          |          |         |         | GEC     |         |         |         |          |         |
| Tetrachloroethene (PCE)                  | (ug/L)                | 0.5                               | 5                              | <0.34  | <b>1.9</b> | <0.45    | <0.45    | <0.45    | <0.45    | <0.45    | <0.50   |         |         | <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    | <0.48    | <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    |         |         | <0.50   | <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    |         |         | <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     |         |         | <1.0    | <1.0    | <1.0    |         |          |         |

**Notes:**  
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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                                     | Groundwater Elevation |                                   |                                | Notes  | 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   | 3/21/17 |
|  |                       |                                   |                                | 596.29 | 598.63 | 597.49  | 597.85   | 597.84   | 596.34   | 596.56   | --          | 596.60  | 594.44  | 594.95  | 594.91     |         |
|  |                       |                                   |                                |        |        |         |          |          |          |          | GEC         |         |         |         |            |         |
| Tetrachloroethene (PCE)                  | (ug/L)                | <i>0.5</i>                        | <b>5</b>                       | <0.34  | <0.45  | <0.45   | <0.45    | <0.45    | <0.45    | <0.50    | NOT SAMPLED | <0.50   | <0.50   | <0.50   | <0.50      |         |
| Trichloroethene (TCE)                    | (ug/L)                | <i>0.5</i>                        | <b>5</b>                       | <0.21  | <0.48  | <0.48   | <0.48    | <0.48    | <0.48    | <0.33    |             | <0.33   | <0.33   | <0.33   | <0.33      | <0.33   |
| cis-1,2-Dichloroethene                   | (ug/L)                | <i>7</i>                          | <b>70</b>                      | <0.19  | <0.83  | <0.83   | <0.83    | <0.83    | <0.83    | <0.26    |             | <0.26   | <0.26   | <0.26   | <0.26      | <0.26   |
| trans-1,2-Dichloroethene                 | (ug/L)                | <i>20</i>                         | <b>100</b>                     | --     | --     | --      | --       | --       | <0.89    | <0.26    |             | <0.26   | <0.26   | <0.26   | <0.26      | <0.26   |
| Vinyl Chloride                           | (ug/L)                | <i>0.02</i>                       | <b>0.2</b>                     | <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)                | <i>0.5</i>                        | <b>5</b>                       | --     | --     | --      | --       | --       | <0.43    | <0.23    |             | <0.23   | <0.23   | <0.23   | <0.23      | <0.23   |
| Benzene                                  | (ug/L)                | <i>0.5</i>                        | <b>5</b>                       | <0.19  | <0.41  | <0.41   | <0.41    | <0.41    | <0.41    | <0.50    |             | <0.50   | <0.50   | <0.50   | <0.50      | <0.50   |
| Ethylbenzene                             | (ug/L)                | <i>140</i>                        | <b>700</b>                     | <0.19  | <0.54  | <0.54   | <0.54    | <0.54    | <0.54    | <0.50    |             | <0.50   | <0.50   | <0.50   | <0.50      | <0.50   |
| Toluene                                  | (ug/L)                | <i>160</i>                        | <b>800</b>                     | <0.11  | <0.67  | <0.67   | <0.67    | <0.67    | <0.67    | <0.50    |             | <0.50   | <0.50   | <0.50   | <b>4.1</b> | <0.50   |
| Xylenes (TOTAL)                          | (ug/L)                | <i>400</i>                        | <b>2,000</b>                   | <0.39  | <2.63  | <2.63   | <2.63    | <2.63    | <2.63    | <1.5     |             | <1.5    | <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    | <1.0       | <1.0    |
| o-Xylene                                 | (ug/L)                | NS                                | NS                             | --     | --     | --      | --       | --       | <0.83    | <0.50    |             | <0.49   | <0.50   | <0.50   | <0.50      | <0.50   |
| Naphthalene                              | (ug/L)                | <i>10</i>                         | <b>100</b>                     | <0.082 | <0.74  | <0.74   | <0.74    | <0.89    | <0.89    | <2.5     |             | <2.4    | <2.5    | <2.5    | <2.5       | <2.5    |
| MTBE                                     | (ug/L)                | <i>12</i>                         | <b>60</b>                      | --     | --     | --      | --       | --       | <0.61    | <0.17    |             | <0.17   | <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   | <0.50      | <0.50   |
| 1,3,5-Trimethylbenzene                   | (ug/L)                | NS                                | NS                             | --     | --     | --      | --       | --       | <0.83    | <0.50    |             | <0.50   | <0.50   | <0.50   | <0.50      | <0.50   |
| Trimethylbenzene Total (1,2,4- & 1,3,5-) | (ug/L)                | <i>96</i>                         | <b>480</b>                     | <0.81  | <1.80  | <1.80   | <1.80    | <1.80    | <1.80    | <1.0     | <1.1        | <1.0    | <1.0    | <1.0    | <1.0       |         |

**Notes:**  
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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      | 3/21/17    |            |
| Groundwater Elevation                    | 594.78 |                                   |                                | 597.68  | 596.48   | 597.28     | 597.20   | 596.63       | 597.81   | 597.68      | 597.21      | 595.00        | 594.77        | 595.26     |            |
| Notes                                    |        |                                   |                                |         |          |            |          |              |          | GEC         |             |               |               |            |            |
| Tetrachloroethene (PCE)                  | (ug/L) | <i>0.5</i>                        | 5                              | <0.34   | <0.45    | <b>30</b>  | <0.45    | <i>1.3</i>   | <i>2</i> | <i>16.5</i> | <i>14.3</i> | <i>14.8</i>   | <i>4.0</i>    | <i>2.0</i> | <i>1.7</i> |
| Trichloroethene (TCE)                    | (ug/L) | <i>0.5</i>                        | 5                              | <0.21   | <0.48    | <b>2.0</b> | <0.48    | <i>0.78J</i> | <0.48    | 0.49 J      | <0.47       | <i>0.33 J</i> | <i>0.54 J</i> | <0.33      | <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      | <0.26      |
| trans-1,2-Dichloroethene                 | (ug/L) | 20                                | 100                            | --      | --       | --         | --       | --           | <0.89    | <0.26       | <0.54       | <0.26         | <0.26         | <0.26      | <0.26      |
| Vinyl Chloride                           | (ug/L) | <i>0.02</i>                       | 0.2                            | <0.14   | <0.18    | <0.18      | <0.18    | <0.18        | <0.18    | <0.18       | <0.17       | <0.18         | <0.18         | <0.18      | <0.18      |
| Methylene Chloride                       | (ug/L) | <i>0.5</i>                        | 5                              | --      | --       | --         | --       | --           | <0.43    | <0.23       | --          | <0.23         | <0.23         | <0.23      | <0.23      |
| Benzene                                  | (ug/L) | <i>0.5</i>                        | 5                              | <0.19   | <0.41    | <0.41      | <0.41    | <0.41        | <0.41    | <0.50       | <0.44       | <0.50         | <0.50         | <0.50      | <0.50      |
| Ethylbenzene                             | (ug/L) | <i>140</i>                        | 700                            | <0.19   | <0.54    | <0.54      | <0.54    | <0.54        | <0.54    | <0.50       | <0.71       | <0.50         | <0.50         | <0.50      | <0.50      |
| Toluene                                  | (ug/L) | <i>160</i>                        | 800                            | <0.11   | <0.67    | <0.67      | <0.67    | <0.67        | <0.67    | <0.50       | <0.44       | <0.50         | <0.50         | <0.50      | <0.50      |
| Xylenes (TOTAL)                          | (ug/L) | <i>400</i>                        | 2,000                          | <0.39   | <2.63    | <2.63      | <2.63    | <2.63        | <2.63    | <1.5        | <3.1        | <1.5          | <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       | <1.0       |
| o-Xylene                                 | (ug/L) | NS                                | NS                             | --      | --       | --         | --       | --           | <0.83    | <0.50       | <2.2        | <0.50         | <0.50         | <0.50      | <0.50      |
| Naphthalene                              | (ug/L) | <i>10</i>                         | 100                            | <0.082  | <0.74    | <0.74      | <0.74    | <0.89        | <0.89    | <2.5        | --          | <2.5          | <2.5          | <2.5       | <2.5       |
| MTBE                                     | (ug/L) | <i>12</i>                         | 60                             | --      | --       | --         | --       | --           | <0.61    | <0.17       | <1.1        | <0.17         | <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      | <0.50      |
| 1,3,5-Trimethylbenzene                   | (ug/L) | NS                                | NS                             | --      | --       | --         | --       | --           | <0.83    | <0.50       | <1.5        | <0.50         | <0.50         | <0.50      | <0.50      |
| Trimethylbenzene Total (1,2,4- & 1,3,5-) | (ug/L) | <i>96</i>                         | 480                            | <0.81   | <1.80    | <1.80      | <1.80    | <1.80        | <1.80    | <1.0        | <3.1        | <1.0          | <1.0          | <1.0       | <1.0       |

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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 | 3/21/17 |       |  |  |
| Groundwater Elevation                    | 595.83 |                                   |                                | 598.21  | 596.98   | 598.17   | 598.35   | 597.46   | 599.12   | 599.49  | 597.28  | 596.73  | 596.64   | 597.27  |       |  |  |
| Notes                                    |        |                                   |                                |         |          |          |          |          |          | GEC     |         |         |          |         |       |  |  |
| Tetrachloroethene (PCE)                  | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <0.34   | <0.45    | <0.45    | <0.45    | <0.45    | <0.45    | <0.50   | <0.49   |         | <0.50    | <0.50   | <0.50 |  |  |
| Trichloroethene (TCE)                    | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <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) | <b>7</b>                          | <b>70</b>                      | <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) | <b>20</b>                         | <b>100</b>                     | --      | --       | --       | --       | --       | <0.89    | <0.26   | <0.54   |         | <0.26    | <0.26   | <0.26 |  |  |
| Vinyl Chloride                           | (ug/L) | <i>0.02</i>                       | <b>0.2</b>                     | <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) | <i>0.5</i>                        | <b>5</b>                       | --      | --       | --       | --       | --       | <0.43    | <0.23   | --      |         | <0.23    | <0.23   | <0.23 |  |  |
| Benzene                                  | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <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) | <i>140</i>                        | <b>700</b>                     | <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) | <i>160</i>                        | <b>800</b>                     | <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) | <i>400</i>                        | <b>2,000</b>                   | <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) | <i>10</i>                         | <b>100</b>                     | <0.082  | <0.74    | <0.74    | <0.74    | <0.89    | <0.89    | <2.5    | --      |         | <2.5     | <2.5    | <2.5  |  |  |
| MTBE                                     | (ug/L) | <i>12</i>                         | <b>60</b>                      | --      | --       | --       | --       | --       | <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) | <i>96</i>                         | <b>480</b>                     | <0.81   | <1.80    | <1.80    | <1.80    | <1.80    | <1.80    | <1.0    | <3.1    |         | <1.0     | <1.0    | <1.0  |  |  |

NOT SAMPLED

**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    |             |            |            |          |          |               |             |               |               |               |               |       |
|--|--------|-----------------------------------|--------------------------------|---------|-------------|------------|------------|----------|----------|---------------|-------------|---------------|---------------|---------------|---------------|-------|
|  |        |                                   |                                | 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      | 3/21/17       |       |
| Date                                     |        |                                   |                                | NA      | 595.58      | 594.65     | 595.89     | 593.86   | 593.15   | 595.32        | --          | 594.24        | 594.50        | 593.79        | 593.71        |       |
| Groundwater Elevation                    |        |                                   |                                |         |             |            |            |          |          |               | GEC         |               |               |               |               |       |
| Notes                                    |        |                                   |                                |         |             |            |            |          |          |               |             |               |               |               |               |       |
| Tetrachloroethene (PCE)                  | (ug/L) | <i>0.5</i>                        | 5                              | <0.34   | <0.45       | <0.45      | <0.45      | <0.45    | <0.45    | <i>0.94 J</i> | NOT SAMPLED | <i>0.73 J</i> | <i>0.60 J</i> | <0.50         | <0.50         |       |
| Trichloroethene (TCE)                    | (ug/L) | <i>0.5</i>                        | 5                              | <0.098  | <i>0.55</i> | <i>2.6</i> | <i>0.7</i> | <0.48    | <0.48    | <i>1.7</i>    |             | <i>1.0</i>    | <i>0.78 J</i> | <i>0.67 J</i> | <i>0.58 J</i> |       |
| 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         | <0.26         | <0.26 |
| trans-1,2-Dichloroethene                 | (ug/L) | 20                                | 100                            | --      | --          | --         | --         | --       | <0.89    | <0.26         |             | <0.26         | <0.26         | <0.26         | <0.26         | <0.26 |
| Vinyl Chloride                           | (ug/L) | <i>0.02</i>                       | 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 |
| Methylene Chloride                       | (ug/L) | <i>0.5</i>                        | 5                              | --      | --          | --         | --         | --       | <0.43    | <0.23         |             | <0.23         | <0.23         | <0.23         | <0.23         | <0.23 |
| Benzene                                  | (ug/L) | <i>0.5</i>                        | 5                              | <0.19   | <0.41       | <0.41      | <0.41      | <0.41    | <0.41    | <0.50         |             | <0.50         | <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         | <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         | <0.50         | <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          | <1.5          | <1.5  |
| m&p-Xylene                               | (ug/L) | NS                                | NS                             | --      | --          | --         | --         | --       | <1.8     | <1.0          |             | <1.0          | <1.0          | <1.0          | <1.0          | <1.0  |
| o-Xylene                                 | (ug/L) | NS                                | NS                             | --      | --          | --         | --         | --       | <0.83    | <0.50         |             | <0.50         | <0.50         | <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  |
| MTBE                                     | (ug/L) | 12                                | 60                             | --      | --          | --         | --         | --       | <0.61    | <0.17         |             | <0.17         | <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         | <0.50         | <0.50 |
| 1,3,5-Trimethylbenzene                   | (ug/L) | NS                                | NS                             | --      | --          | --         | --         | --       | <0.83    | <0.50         |             | <0.50         | <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          | <1.0        | <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 | GEC TW-4 |         |             |          |         | GEC TW-5 |          |         |         |         |       |
|--|---------|-----------------------------------|--------------------------------|----------|---------|-------------|----------|---------|----------|----------|---------|---------|---------|-------|
| Date                                     | 9/24/15 |                                   |                                | 11/12/15 | 6/24/16 | 9/22/16     | 12/22/16 | 3/21/17 | 9/24/15  | 11/12/15 | 6/24/16 | 9/22/16 | 3/21/17 |       |
| Groundwater Elevation                    | --      |                                   |                                | 598.16   | 597.91  | 596.76      | 596.57   | 597.37  | --       | --       | --      | --      | --      |       |
| Notes                                    |         |                                   |                                |          |         |             |          |         |          |          |         |         |         |       |
| Tetrachloroethene (PCE)                  | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <0.49    | <0.50   | NOT SAMPLED | <0.50    | <0.50   | <0.50    | <0.49    | <0.50   | <0.50   | <0.50   | <0.50 |
| Trichloroethene (TCE)                    | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <0.47    | <0.33   |             | <0.33    | <0.33   | <0.33    | <0.47    | <0.33   | <0.33   | <0.33   | <0.33 |
| cis-1,2-Dichloroethene                   | (ug/L)  | <b>7</b>                          | <b>70</b>                      | <0.45    | <0.26   |             | <0.26    | <0.26   | <0.26    | <0.45    | <0.26   | <0.26   | <0.26   | <0.26 |
| trans-1,2-Dichloroethene                 | (ug/L)  | <b>20</b>                         | <b>100</b>                     | --       | <0.26   |             | <0.26    | <0.26   | <0.26    | --       | <0.26   | <0.26   | <0.26   | <0.26 |
| Vinyl Chloride                           | (ug/L)  | <i>0.02</i>                       | <b>0.2</b>                     | --       | <0.18   |             | <0.18    | <0.18   | <0.18    | --       | <0.18   | <0.18   | <0.18   | <0.18 |
| Methylene Chloride                       | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | --       | <0.23   |             | <0.23    | <0.23   | <0.23    | --       | <0.23   | <0.23   | <0.23   | <0.23 |
| Benzene                                  | (ug/L)  | <i>0.5</i>                        | <b>5</b>                       | <0.44    | <0.50   |             | <0.50    | <0.50   | <0.50    | <0.44    | <0.50   | <0.50   | <0.50   | <0.50 |
| Ethylbenzene                             | (ug/L)  | <b>140</b>                        | <b>700</b>                     | <0.71    | <0.50   |             | <0.50    | <0.50   | <0.50    | <0.71    | <0.50   | <0.50   | <0.50   | <0.50 |
| Toluene                                  | (ug/L)  | <b>160</b>                        | <b>800</b>                     | <0.44    | <0.50   |             | <0.50    | <0.50   | <0.50    | <0.44    | <0.50   | <0.50   | <0.50   | <0.50 |
| Xylenes (TOTAL)                          | (ug/L)  | <b>400</b>                        | <b>2,000</b>                   | <3.1     | <1.5    |             | <1.5     | <1.5    | <1.5     | <3.1     | <1.5    | <1.5    | <1.5    | <1.5  |
| m&p-Xylene                               | (ug/L)  | NS                                | NS                             | <2.2     | <1.0    |             | <1.0     | <1.0    | <1.0     | <2.2     | <1.0    | <1.0    | <1.0    | <1.0  |
| o-Xylene                                 | (ug/L)  | NS                                | NS                             | <0.9     | <0.50   |             | <0.50    | <0.50   | <0.50    | <0.9     | <0.50   | <0.50   | <0.50   | <0.50 |
| Naphthalene                              | (ug/L)  | <b>10</b>                         | <b>100</b>                     | --       | <2.5    |             | <2.5     | <2.5    | <2.5     | --       | <2.5    | <2.5    | <2.5    | <2.5  |
| MTBE                                     | (ug/L)  | <b>12</b>                         | <b>60</b>                      | <1.1     | <0.17   |             | <0.17    | <0.17   | <0.17    | <1.1     | <0.17   | <0.17   | <0.17   | <0.17 |
| 1,2,4-Trimethylbenzene                   | (ug/L)  | NS                                | NS                             | <1.6     | <0.50   |             | <0.50    | <0.50   | <0.50    | <1.6     | <0.50   | <0.50   | <0.50   | <0.50 |
| 1,3,5-Trimethylbenzene                   | (ug/L)  | NS                                | NS                             | <1.5     | <0.50   |             | <0.50    | <0.50   | <0.50    | <1.5     | <0.50   | <0.50   | <0.50   | <0.50 |
| Trimethylbenzene Total (1,2,4- & 1,3,5-) | (ug/L)  | <b>96</b>                         | <b>480</b>                     | <3.1     | <1.0    | <1.0        | <1.0     | <1.0    | <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

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 | GEC 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 | 3/21/17 |
| Groundwater Elevation                    |        |                                   |                                | --        | --        | --        | --        | --        | --      | --         | --      | --      | --       | --      |
| Notes                                    |        |                                   |                                |           |           |           |           |           |         |            |         |         |          |         |
|  |        |                                   |                                |           |           |           |           |           |         |            |         |         |          |         |
| Tetrachloroethene (PCE)                  | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <0.49     | <0.49     | <0.49     | <0.49     | <0.49     | <0.49   | <0.50      | <0.50   | <0.50   | <0.50    | <0.50   |
| Trichloroethene (TCE)                    | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <0.47     | <0.47     | <0.47     | <0.47     | <0.47     | <0.47   | <0.33      | <0.33   | <0.33   | <0.33    | <0.33   |
| cis-1,2-Dichloroethene                   | (ug/L) | <b>7</b>                          | <b>70</b>                      | <0.45     | <0.45     | <0.45     | <0.45     | <0.45     | <0.45   | <0.26      | <0.26   | <0.26   | <0.26    | <0.26   |
| trans-1,2-Dichloroethene                 | (ug/L) | <b>20</b>                         | <b>100</b>                     | <0.54     | <0.54     | <0.54     | <0.54     | <0.54     | <0.54   | <0.26      | <0.26   | <0.26   | <0.26    | <0.26   |
| Vinyl Chloride                           | (ug/L) | <i>0.02</i>                       | <b>0.2</b>                     | <0.17     | <0.17     | <0.17     | <0.17     | <0.17     | <0.17   | <0.18      | <0.18   | <0.18   | <0.18    | <0.18   |
| Methylene Chloride                       | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | --        | --        | --        | --        | --        | <1.3    | <0.23      | <0.23   | <0.23   | <0.23    | <0.23   |
| Benzene                                  | (ug/L) | <i>0.5</i>                        | <b>5</b>                       | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44   | <0.50      | <0.50   | <0.50   | <0.50    | <0.50   |
| Ethylbenzene                             | (ug/L) | <i>140</i>                        | <b>700</b>                     | <0.71     | <0.71     | <0.71     | <0.71     | <0.71     | <0.71   | <0.50      | <0.50   | <0.50   | <0.50    | <0.50   |
| Toluene                                  | (ug/L) | <i>160</i>                        | <b>800</b>                     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44     | <0.44   | <0.50      | <0.50   | <0.50   | <0.50    | <0.50   |
| Xylenes (TOTAL)                          | (ug/L) | <i>400</i>                        | <b>2,000</b>                   | <3.1      | <3.1      | <3.1      | <3.1      | <3.1      | <3.1    | <1.5       | <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     | <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    | <0.50   |
| Naphthalene                              | (ug/L) | <i>10</i>                         | <b>100</b>                     | --        | --        | --        | --        | --        | <1.6    | <2.5       | <2.5    | <2.5    | <2.5     | <2.5    |
| MTBE                                     | (ug/L) | <i>12</i>                         | <b>60</b>                      | <1.1      | <1.1      | <1.1      | <1.1      | <1.1      | <1.1    | <0.17      | <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    | <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    | <0.50   |
| Trimethylbenzene Total (1,2,4- & 1,3,5-) | (ug/L) | <i>96</i>                         | <b>480</b>                     | <3.1      | <3.1      | <3.1      | <3.1      | <3.1      | <3.1    | <1.0       | <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

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**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

| Sample ID                                | Date    | Depth         | Description      | DEPTH to Seasonal Low Water Table (ft BGS) | Saturated (S) or Unsaturated (U) | PID Reading | Notes     | Site Investigation - Northern Environmental |         |             |         | Site Investigation - STS Consultants |           |       |             |             |         |      |      |      |
|--|---------|---------------|------------------|--|----------------------------------|-------------|-----------|---|---------|-------------|---------|--------------------------------------|-----------|-------|-------------|-------------|---------|------|------|------|
|  |         |               |                  |  |                                  |             |           | B100A                                       | B300A   | B400A       | B500A   | PZ-1                                 |           | MW-2  |             | MW-3        |         | MW-4 |      | MW-6 |
|  |         |               |                  |  |                                  |             |           | 3/10/99                                     | 3/10/99 | 3/10/99     | 3/10/99 | 1999                                 | 1999      | 1999  | 1999        | 1999        | 1999    | 1999 | 1999 | 1999 |
|  |         |               |                  |  |                                  |             |           | 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' |
|  |         |               |                  |  |                                  |             |           | NA  | NA      | NA          | NA      | NA                                   | NA        | NA    | NA          | NA          | NA      | NA   | NA   | NA   |
|  |         |               |                  |  |                                  |             |           | 6'  | 6'      | 6'          | 6'      | 6'                                   | 6'        | 6'    | 6'          | 6'          | 6'      | 6'   | 6'   | 6'   |
|  |         |               |                  |  |                                  |             |           | U   | U       | U           | U       | U                                    | S         | U     | S           | U           | S       | U    | S    | U    |
|  |         |               |                  |  |                                  |             |           | NA  | NA      | NA          | NA      | NA                                   | NA        | NA    | NA          | NA          | NA      | NA   | NA   | NA   |
|  |         |               |                  |  |                                  |             |           |   |         | <i>RMVD</i> |         |                                      |           |       | <i>RMVD</i> | <i>RMVD</i> |         |      |      |      |
| Benzene                                  | (ug/kg) | <i>5.1</i>    | <b>1,490</b>     | <25  | <25                              | <25         | <25       | <12.8                                       | <13.1   | <11.5       | <13.8   | <12.7                                | <12.6     | <11.8 | <12.0       | NA          |         |      |      |      |
| Ethylbenzene                             | (ug/kg) | <i>1570</i>   | <b>7,470</b>     | <25  | <25                              | <25         | <25       | <13.2                                       | <13.6   | <11.9       | <14.2   | <13.1                                | <19.0     | <12.2 | <12.3       | NA          |         |      |      |      |
| Toluene                                  | (ug/kg) | <i>1107.2</i> | <b>818,000</b>   | <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) | <i>3940</i>   | <b>258,000</b>   | <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            | <b>778,000</b>   | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| o-Xylene                                 | (ug/kg) | NS            | <b>434,000</b>   | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| Naphthalene                              | (ug/kg) | <i>658.2</i>  | <b>5,150</b>     | <25  | <25                              | <25         | <25       | <5.59                                       | <5.73   | <5.03       | <6.02   | <5.52                                | <b>38</b> | <5.17 | <5.22       | NA          |         |      |      |      |
| MTBE                                     | (ug/kg) | <i>27</i>     | <b>59,400</b>    | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| 1,2,4-Trimethylbenzene                   | (ug/kg) | <i>408</i>    | <b>89,800</b>    | <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            | <b>182,000</b>   | <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) | <i>1382.1</i> | 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) | <i>4.5</i>    | <b>30,700</b>    | <i>170</i>                                 | <i>57</i>                        | <i>370</i>  | <i>51</i> | <i>98.9</i>                                 | <23.5   | <20.6       | <24.7   | <i>122</i>                           | <22.5     | <21.2 | <21.4       | NA          |         |      |      |      |
| Trichloroethene (TCE)                    | (ug/kg) | <i>3.6</i>    | <b>1,260</b>     | 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) | <i>41.2</i>   | <b>156,000</b>   | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| trans-1,2-Dichloroethene                 | (ug/kg) | <i>58.8</i>   | <b>1,560,000</b> | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| Vinyl Chloride                           | (ug/kg) | <i>0.1</i>    | <b>67</b>        | NR   | NR                               | NR          | NR        | NR  | NR      | NR          | NR      | NR                                   | NR        | NR    | NR          | NA          |         |      |      |      |
| Methylene Chloride                       | (ug/kg) | <i>2.6</i>    | <b>60,700</b>    | 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), even though 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                                  | Date    | Depth         | Description      | MW-7                                 | HA-1           |                | B-1  | B-2            | B-3            |                | B-4            | B-5  | B-6  | HA-1R          | HA-2           |
|  |         |               |                  |                                      | 1999           | 1999           | 1999 | 1999           | 1999           | 1999           | 1999           | 1999 | 1999 | 1999           | 1999           |
|  |         |               |                  | 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'         |
|  |         |               |                  | 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                                      |         |               |                  |                                      | <i>RMVD</i>    | <i>RMVD</i>    |      |                | <i>RMVD</i>    | <i>RMVD</i>    | <i>RMVD</i>    |      |      | <i>RMVD</i>    | <i>RMVD</i>    |
| Benzene                                    | (ug/kg) | <i>5.7</i>    | <b>1,490</b>     | NA                                   | <11.0          | <12.1          | <11  | <11            | <58            | <127           | <11            | <12  | <10  | <25.0          | <25.0          |
| Ethylbenzene                               | (ug/kg) | <i>1570</i>   | <b>7,470</b>     | NA                                   | <11.3          | <12.5          | <11  | <12            | <i>397</i>     | <i>1,370</i>   | <12            | <12  | <11  | <25.0          | <25.0          |
| Toluene                                    | (ug/kg) | <i>1107.2</i> | <b>818,000</b>   | 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) | <i>3940</i>   | <b>258,000</b>   | NA                                   | <33.3          | <i>16.6P</i>   | <23  | <24            | <i>776</i>     | <i>2,030</i>   | <24            | <25  | <22  | <75.0          | <75.0          |
| m&p-Xylene                                 | (ug/kg) | NS            | <b>778,000</b>   | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | NR             | NR             |
| o-Xylene                                   | (ug/kg) | NS            | <b>434,000</b>   | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | NR             | NR             |
| Naphthalene                                | (ug/kg) | <i>658.2</i>  | <b>5,150</b>     | NA                                   | <i>5.99J</i>   | <i>17.7</i>    | <32  | <33            | <i>2,250</i>   | <i>5,770</i>   | <32            | <34  | <30  | <25.0          | <25.0          |
| MTBE                                       | (ug/kg) | <i>27</i>     | <b>59,400</b>    | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | NR             | NR             |
| 1,2,4-Trimethylbenzene                     | (ug/kg) | <i>408</i>    | <b>89,800</b>    | NA                                   | <27.1          | <29.8          | <27  | <28            | <i>4,280</i>   | <i>16,200</i>  | <28            | <29  | <26  | <25.0          | <              |
| 1,3,5-Trimethylbenzene                     | (ug/kg) | NS            | <b>182,000</b>   | NA                                   | <20.2          | <22.2          | <20  | <21            | <i>2,340</i>   | <i>4,890</i>   | <21            | <22  | <19  | <25.0          | <25.0          |
| Trimethylbenzene Total (1,2,4- & 1,3,5-)   | (ug/kg) | <i>1382.1</i> | NS               | NA                                   | <47.2          | <52.0          | <47  | <49            | <i>6,620</i>   | <i>21,090</i>  | <49            | <51  | <45  | <50.0          | <50.0          |
| Tetrachloroethene (PCE)                    | (ug/kg) | <i>4.5</i>    | <b>30,700</b>    | NA                                   | <i>925</i>     | <i>4,110</i>   | <20  | <i>46J</i>     | <103           | <228           | <i>300</i>     | <21  | <19  | <i>408</i>     | <i>144</i>     |
| Trichloroethene (TCE)                      | (ug/kg) | <i>3.6</i>    | <b>1,260</b>     | NA                                   | <12.4          | <i>31.4J</i>   | <13  | <13            | <65            | <144           | <i>209</i>     | <13  | <12  | <25.0          | <25.0          |
| cis-1,2-Dichloroethene                     | (ug/kg) | <i>41.2</i>   | <b>156,000</b>   | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | <25.0          | <25.0          |
| trans-1,2-Dichloroethene                   | (ug/kg) | <i>58.8</i>   | <b>1,560,000</b> | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | <25.0          | <25.0          |
| Vinyl Chloride                             | (ug/kg) | <i>0.1</i>    | <b>67</b>        | NA                                   | NR             | NR             | NR   | NR             | NR             | NR             | NR             | NR   | NR   | <25.0          | <25.0          |
| Methylene Chloride                         | (ug/kg) | <i>2.6</i>    | <b>60,700</b>    | 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)         |         |               |                  | --                                   | <b>0</b>       | <b>0</b>       | --   | <b>0</b>       | <b>0</b>       | <b>1</b>       | <b>0</b>       | --   | --   | <b>0</b>       | <b>0</b>       |
| Cumulative Hazard Index (DC)               |         |               |                  | --                                   | <b>0.0081</b>  | <b>0.041</b>   | --   | <b>0.0004</b>  | <b>0.0636</b>  | <b>0.22</b>    | <b>0.0372</b>  | --   | --   | <b>0.0035</b>  | <b>0.0013</b>  |
| Cumulative Cancer Risk (DC)                |         |               |                  | --                                   | <b>3.1E-08</b> | <b>1.6E-07</b> | --   | <b>1.5E-09</b> | <b>4.9E-07</b> | <b>1.3E-06</b> | <b>1.8E-07</b> | --   | --   | <b>1.3E-08</b> | <b>4.7E-09</b> |

Exceedance Highlights:

Red font indicates DC RCL exceedance, and BTV exceedance for metals. **\*B1\***: Cumulative exceedance (HI > 1), even though 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

| Sample ID                                  |         | Site Investigation - Alpha Terra Science (Fehr-Graham) |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |
|--|---------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|-------|
|  |         | B-10   |             | B-11        |             |             | B-12        |             |             | B-13        |             | B-14        |             | B-15        |             |       |       |
|  |         | 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    |       |       |
| Date                                       |         | 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'        |       |       |
| Depth                                      |         | clay   | clay        | silty clay  | silty clay  | silt        | sand        | sandy silt  | sandy silt  | sandy silt  | sand        | clay        | silt        | sandy silt  | sandy silt  |       |       |
| Description                                |         | 6'   | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          | 6'          |       |       |
| DEPTH to Seasonal Low Water Table (ft BGS) |         | U  | U           | U           | U           | U           | U           | U           | U           | U           | U           | U           | U           | U           | U           |       |       |
| Saturated (S) or Unsaturated (U)           |         | 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         |       |       |
| PID Reading                                |         | <i>RMVD</i>  | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> |       |       |
| Notes                                      |         |  |             |             |             |             |             |             |             |             |             |             |             |             |             |       |       |
| Benzene                                    | (ug/kg) | 5.7  | 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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 |       |
| 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    |       |
| No. of Individual Exceedances (DC)         |         | 0  | 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), even though 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

| Sample ID                                  |         | Site Investigation - Alpha Terra Science (Fehr-Graham) |             |             |             |              |              |              |             |              |          |          |              |          |       |
|--|---------|--|-------------|-------------|-------------|--------------|--------------|--------------|-------------|--------------|----------|----------|--------------|----------|-------|
|  |         | B-16   |             | B-17        |             | B-18         |              | B-19         |             | B-20         |          | B-21     |              |          |       |
|  |         | 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 |       |
| Date                                       |         |  |             |             |             |              |              |              |             |              |          |          |              |          |       |
| 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                                      |         | <i>RMVD</i>  | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i> | <i>RMVD</i>  | <i>RMVD</i>  | <i>RMVD</i>  | <i>RMVD</i> |              |          |          |              |          |       |
| Groundwater Pathway RCL                    |         | Non-Industrial Direct-Contact RCL                      |             |             |             |              |              |              |             |              |          |          |              |          |       |
| Non-Industrial Direct-Contact RCL          |         |  |             |             |             |              |              |              |             |              |          |          |              |          |       |
| Benzene                                    | (ug/kg) | 5.7  | 1,490       | <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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | 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    | NA           | <25.0    | <25.0 |
| Total Organic Carbon                       | (mg/kg) |  |             | NA          | NA          | NA           | 5,220        | NA           | NA          | NA           | NA       | NA       | NA           | 1,785    | NA    |
| No. of Individual Exceedances (DC)         |         | 0  | 0           | 0           | 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), even though 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

| Sample ID                                |  | August 5-6, 2015 Remedial Action Excavation |           |                                   |        |         |         |         |         |         |         |         |         |         |         |         |        |        |        |
|--|--|---|-----------|-----------------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
|  |  | AN  | AS        | AE                                | AW     | BN      | BS      | BE      | BW      | CN      | CE      | CW      | DN      | DS      | DE      | DW      |        |        |        |
| Date                                     | Depth                                      | Groundwater Pathway RCL                     |           | Non-Industrial Direct-Contact RCL |        | 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 |
| Description                              | DEPTH to Seasonal Low Water Table (ft BGS) |   |           |                                   |        | 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'   |
| Saturated (S) or Unsaturated (U)         | PID Reading                                |   |           |                                   |        | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA      | NA     | NA     | NA     |
| Notes                                    |  |   |           |                                   |        | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'      | 6'     | 6'     | 6'     |
|  |  |   |           |                                   |        | U       | U       | U       | U       | U       | U       | U       | U       | U       | U       | U       | U      | U      | U      |
|  |  |   |           |                                   |        | 0.2     | 0.7     | 0.0     | 0.8     | 0.0     | 0.0     | 0.0     | 0.0     | 0.3     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    |
| 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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <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  | <25.0  |
| Total Organic Carbon                     | (mg/kg)                                    |   |           | NA                                | 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       | 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), even though 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.4  
GEC SUMMARY OF SUB-SLAB VAPOR SOIL ANALYTICAL RESULTS  
FORMER ONE HOUR MARTINIZING**

| <b>TABLE 1 REGIONAL SCREENING LEVEL SUMMARY</b> |                             |                 |                 |                 |                 |
|---|-----------------------------|-----------------|-----------------|-----------------|-----------------|
| <b>Sample No.</b>                               | <b>Small<br/>Commerical</b> | <b>VP-1</b>     |                 | <b>VP-2</b>     |                 |
| <b>Sampling Date</b>                            |                             | <b>09/02/16</b> | <b>01/30/17</b> | <b>09/02/16</b> | <b>01/30/17</b> |
| <b>Units (ug/m3)</b>                            |                             |                 |                 |                 |                 |
| <b>VOLATILE ORGANIC COMPOUNDS (VOC) (ug/m3)</b> |                             |                 |                 |                 |                 |
| Benzene   | 530                         | 8.58            | 0.800           | <48.9           | 0.894           |
| Carbon Tetrachloride                            | 670                         | <1.23           | <1.23           | <123            | <1.23           |
| Chloroform                                      | 180                         | <0.930          | <0.930          | <93             | <0.930          |
| Chloromethane                                   | 13000                       | <0.374          | 0.739           | <37.4           | 1.26            |
| Dichlorodifluoromethane                         | 15000                       | <0.989          | 1.38            | <98.9           | 1.41            |
| 1,1 Dichloroethane                              | 2600                        | <0.685          | <0.685          | <68.5           | <0.685          |
| 1,2 Dichloroethane                              | 160                         | <0.830          | <0.830          | <83             | <0.830          |
| 1,1-Dichloroethene                              | 29000                       | <0.646          | <0.646          | <64.6           | <0.646          |
| cis-1,2-Dichloroethene                          | NE                          | <0.515          | <0.515          | <51.5           | <0.515          |
| trans-1,2-Dichloroethene                        | NE                          | <0.614          | <0.614          | <61.4           | <0.614          |
| Ethylbenzene                                    | 1600                        | <b>4420</b>     | 4.52            | 313             | 2.13            |
| Methylene Chloride                              | 87000                       | 12.7            | <0.538          | <53.8           | <0.538          |
| Methy Tert Butyl Ether                          | 16000                       | <0.605          | <0.605          | 196             | <0.605          |
| Naphthalene                                     | 120                         | 4.37            | <2.69           | <269            | <2.69           |
| Tetrachloroethylene                             | 6000                        | 1.47            | 1.22            | <113            | <1.13           |
| Toluene   | 730000                      | 25.5            | 5.73            | 149             | 2.58            |
| 1,1,1-Trichloroethane                           | 73000                       | <1.21           | <1.21           | <121            | <1.21           |
| Trichloroethylene                               | 290                         | <0.975          | <0.975          | <97.5           | <0.975          |
| Trichlorofluoromethane                          | NE                          | 1.3             | 1.36            | <126            | 1.37            |
| 1,2,4-Trimethylbenzene                          | 1000                        | 16.8            | 7.64            | <79             | 3.85            |
| 1,3,5-Trimethylbenzene                          | NE                          | 3.58            | 1.57            | <103            | <1.03           |
| Vinyl chloride                                  | 930                         | <0.389          | <0.389          | <38.9           | <0.389          |
| m&p-Xylene                                      | 15000                       | 33.6            | 7.97            | <137            | 3.32            |
| o-Xylene  | 15000                       | 18.2            | 3.62            | <91.5           | 1.54            |

UG/M<sup>3</sup> Micrograms per Cubic Meter of Air

Bold indicates analytical results exceed May 2016 USEPA Regional Sub-Slab Vapor Risk Screening Level

**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)         |        |        |        |        |          |          |

| Sample Date | MW-1                              |                              |                            | PZ-1                              |                              |                            | MW-2                              |                              |                             |
|-------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------------|
|             | 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                      |
| 3/21/2017*  | 5.53                              | 5.80                         | 596.48                     | 6.59                              | 6.78                         | 595.48                     | 4.75                              | 5.00                         | 595.80                      |

| Sample Date | MW-3                              |                              |                            | SMW-3                             |                              |                            | MW-4                              |                              |                             |
|-------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------------|
|             | 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                     |                                   |                              |                            | 2.84                              | 3.28                         | 598.67                      |
| 1/3/2000    | 4.94                              | 5.36                         | 596.31                     |                                   |                              |                            | 5.25                              | 5.69                         | 596.26                      |
| 4/22/2004   | 2.57                              | 2.99                         | 598.68                     |                                   |                              |                            | 2.55                              | 2.99                         | 598.96                      |
| 7/22/2004   | 2.78                              | 3.20                         | 598.47                     |                                   |                              |                            |                                   | No Data                      |                             |
| 10/27/2004  | 3.74                              | 4.16                         | 597.51                     |                                   |                              |                            | 4.08                              | 4.52                         | 597.43                      |
| 1/25/2005   | 5.10                              | 5.52                         | 596.15                     |                                   |                              |                            |                                   | No Data                      |                             |
| 10/31/2006  | 3.06                              | 3.48                         | 598.19                     |                                   |                              |                            | 3.35                              | 3.79                         | 598.16                      |
| 4/30/2007   | 2.21                              | 2.63                         | 599.04                     |                                   |                              |                            |                                   | No Data                      |                             |
| 10/15/2010  | 3.19                              | 3.61                         | 598.06                     |                                   |                              |                            | 3.28                              | 3.72                         | 598.23                      |
| 12/12/2012  | 4.92                              | 5.34                         | 596.33                     |                                   |                              |                            | 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                      |
| 3/21/2017*  |                                   | Abandoned 2015 Excavation    |                            | 6.15                              | 6.35                         | 595.10                     | 4.17                              | 4.49                         | 597.34                      |

**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)         |        |        |        |        |          |          |

| Sample Date | MW-5                              |                              |                            | MW-6                              |                              |                            | MW-7                              |                              |                             |
|-------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------------|
|             | 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                      |
| 3/21/2017*  | 5.28                              | 5.54                         | 596.41                     | 6.32                              | 6.36                         | 594.91                     | 6.13                              | 6.40                         | 595.26                      |

| Sample Date | MW-8                              |                              |                            | MW-9                              |                              |                            | GEC TW-4                          |                              |                             |
|-------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|----------------------------|-----------------------------------|------------------------------|-----------------------------|
|             | 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                      |
| 3/21/2017*  | 4.97                              | 5.11                         | 597.27                     | 6.18                              | 6.45                         | 593.71                     | 4.82                              | 5.33                         | 597.37                      |

| Sample Date | GEC TW-5                          |                              |                            |
|-------------|-----------------------------------|------------------------------|----------------------------|
|             | 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                  |                            |
| 3/21/2017*  | 5.12                              | 5.12                         | -5.12                      |

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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-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 | 3/21/17 |
| 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  | 596.48   |         |
| 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    | 6.38    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 1005   | 1652    | 1618    | 1691     | 1767    | 1463     | 1121    | 1217     | 900      | 476      | --      | 781     | 886      | 2542    |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | 1      | 5       | 5       | 4        | 4       | 3        | 6       | --       | 5.73     | 7.77     | 6.07    | 1.10    | 4.12     | 3.72    |
| 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     | 6.57    |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --      | --       | --      | --       | --      | --       | -30.6    | 195.9    | 87.0    | 170.0   | 144.4    | 163.6   |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | 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 | 11/12/15 | 6/24/16     | 9/22/16 | 12/22/16 | 3/21/17 |
| Groundwater Elevation    |       |                                      |                                   |        |         |         |          |         |          |         |          |          |          |             |         |          |         |
| FIELD PARAMETERS         |       |                                      |                                   |        |         |         |          |         |          |         |          |          |          |             |         |          |         |
| Temperature              | C°    | NS                                   | NS                                | 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    | 11.36   |
| Specific Conductivity    | mS/cm | NS                                   | NS                                | 192    | 261     | 261     | 233      | 257     | 275      | 236     | 332      | 187      | 190      |             | 161     | 425      | 6063    |
| Dissolved Oxygen (field) | mg/l  | NS                                   | NS                                | 1      | 4       | 4       | 3        | 3       | 4        | 5       | --       | 1.40     | 3.90     |             | 1.32    | 3.33     | 0.67    |
| pH                       |       | NS                                   | NS                                | 8.35   | 7.98    | 8.13    | 8.50     | 8.20    | 8.18     | 8.04    | 7.36     | 8.00     | 7.73     |             | 6.28    | 5.49     | 6.51    |
| ORP                      | eV    | NS                                   | NS                                | --     | --      | --      | --       | --      | --       | --      | --       | -61.6    | 191.2    |             | 224.0   | 148.6    | 130.3   |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-2   |         |         |          |         |          |         |          |          |          |         |         |          |         |  |
|-----------------------------|-------|--------------------------------------|-----------------------------------|--------|---------|---------|----------|---------|----------|---------|----------|----------|----------|---------|---------|----------|---------|--|
| 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 | 3/21/17 |  |
| Groundwater Elevation       |       |                                      |                                   |        |         |         |          |         |          |         |          |          |          |         |         |          |         |  |
| <b>FIELD PARAMETERS</b>     |       |                                      |                                   |        |         |         |          |         |          |         |          |          |          |         |         |          |         |  |
| 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    | 5.93    |  |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 3030   | 6690    | 4120    | 5190     | 4690    | 3420     | 3110    | 3730     | 2285     | 1679     | 1717    | 2349    | 1589     | 2442    |  |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | <1     | 3       | 5       | 2        | 5       | 3        | 4       | --       | 2.54     | 7.30     | 3.88    | 1.69    | 12.93    | 2.72    |  |
| 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     | 6.58    |  |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --      | --       | --      | --       | --      | --       | -42.3    | 155.9    | 134.0   | 188.0   | 144.8    | 162.4   |  |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-3   |         |         |          |         |          |         |          |          | SMW-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                          | 11/12/15 | 6/24/16 | 9/22/16 | 12/22/16 | 3/21/17 |
| Groundwater Elevation       |       |                                      | 596.31                            | 598.68 | 598.47  | 597.51  | 596.15   | 598.19  | 599.04   | 598.04  | 596.33   | --       | 595.57                            | 595.69   | 595.07  | 594.96  | 595.10   |         |
| FIELD PARAMETERS            |       |                                      |                                   |        |         |         |          |         |          |         |          |          |                                   |          |         |         |          |         |
| Temperature                 | C°    | NS                                   | NS                                | 7.8    | 7.4     | 16.7    | 16.5     | 9.0     | 13.2     | 10.6    | 18.2     | 12.54    | REMOVED DURING<br>2015 EXCAVATION | 15.19    | 13.48   | 20.10   | 12.21    | 6.63    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 710    | 901     | 929     | 801      | 919     | 811      | 665     | 633      | 604      |                                   | 501      | 996     | 918     | 1767     | 772     |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | <1     | 6       | 5       | 2        | 4       | 3        | 6       | --       | 4.21     |                                   | 6.17     | 4.01    | 0.96    | 5.19     | 1.31    |
| pH                          |       | NS                                   | NS                                | 7.23   | 7.31    | 7.36    | 7.60     | 7.47    | 7.30     | 7.18    | 6.89     | 7.28     |                                   | 7.41     | 6.70    | 7.16    | 5.56     | 6.66    |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --      | --       | --      | --       | --      | --       | -48.3    |                                   | 182.4    | 118.7   | 167.0   | 142.9    | 116.5   |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-4   |         |          |          |          |          |          |         |         |          |         |
|-----------------------------|-------|--------------------------------------|-----------------------------------|--------|---------|----------|----------|----------|----------|----------|---------|---------|----------|---------|
| 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 | 3/21/17 |
| Groundwater Elevation       |       |                                      | 596.26                            | 598.96 | 597.43  | 598.16   | 598.23   | 597.07   | 597.29   | 597.27   | 596.90  | 596.33  | 597.34   |         |
| FIELD PARAMETERS            |       |                                      |                                   |        |         |          |          |          |          |          |         |         |          |         |
| Temperature                 | C°    | NS                                   | NS                                | 8.0    | 9.4     | 16.9     | 13.4     | 19.5     | 13.38    | 16.24    | 16.92   | 23.13   | 12.14    | 6.41    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 713    | 760     | 757      | 776      | 659      | 433      | 532      | 659     | 585     | 566      | 477     |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | 1      | 5       | 4        | 5        | --       | 6.60     | 3.84     | 4.64    | 1.12    | 15.66    | 2.59    |
| pH                          |       | NS                                   | NS                                | 7.19   | 7.20    | 7.57     | 7.38     | 6.38     | 7.46     | 7.15     | 7.49    | 7.88    | 5.99     | 6.98    |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --       | --       | --       | -48.6    | 185.9    | 70.1    | 188.0   | 202.6    | 85.9    |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-5   |         |          |          |          |          |          |             |         |          |         |
|--------------------------|-------|--------------------------------------|-----------------------------------|--------|---------|----------|----------|----------|----------|----------|-------------|---------|----------|---------|
| 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 | 3/21/17 |
| Groundwater Elevation    |       |                                      |                                   |        |         |          |          |          |          |          |             |         |          |         |
| FIELD PARAMETERS         |       |                                      |                                   |        |         |          |          |          |          |          |             |         |          |         |
| Temperature              | C°    | NS                                   | NS                                | 10.5   | 8.4     | 17.2     | 13.5     | 17.6     | 12.93    | 14.57    | NOT SAMPLED | 20.60   | 11.72    | 5.86    |
| Specific Conductivity    | mS/cm | NS                                   | NS                                | 598    | 1039    | 896      | 828      | 722      | 560      | 501      |             | 482     | 554      | 3736    |
| Dissolved Oxygen (field) | mg/l  | NS                                   | NS                                | 5      | 5       | 4        | 2        | --       | 576.00   | 7.45     |             | 5.06    | 15.32    | 6.03    |
| pH                       |       | NS                                   | NS                                | 7.58   | 7.24    | 7.55     | 7.25     | 6.41     | 7.34     | 7.05     |             | 7.08    | 5.35     | 6.54    |
| ORP                      | eV    | NS                                   | NS                                | --     | --      | --       | --       | --       | -41.2    | 189.5    |             | 197.0   | 196.8    | 79.7    |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-6        |         |             |             |             |          |          |         |         |          |         |
|-----------------------------|-------|--------------------------------------|-----------------------------------|-------------|---------|-------------|-------------|-------------|----------|----------|---------|---------|----------|---------|
| 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 | 3/21/17 |
| Groundwater Elevation       |       |                                      | 596.29                            | 598.63      | 597.49  | 597.85      | 597.84      | 596.34      | 596.56   | 596.60   | 594.44  | 594.95  | 594.91   |         |
| 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    | 7.29    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 1321        | 4350    | 2170        | 1246        | 877         | 518      | 558      | 433     | 117     | 530      | 497     |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | 4           | 4       | 3           | 3.5         | --          | 1.73     | 1.47     | 2.08    | 4.34    | 1.21     | 0.91    |
| pH                          |       | NS                                   | NS                                | <i>7.27</i> | 7.00    | <i>7.67</i> | <i>7.37</i> | <i>6.64</i> | 7.43     | 7.00     | 5.56    | 5.74    | 4.75     | 6.87    |
| ORP                         | eV    | NS                                   | NS                                | --          | --      | --          | --          | --          | -65.4    | 31.3     | 166.4   | 233.0   | 195.6    | 86.3    |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | 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 | 3/21/17 |
| Groundwater Elevation       |       |                                      |                                   | 594.78 | 597.68  | 596.48   | 597.28   | 597.20   | 596.63   | 597.81   | 597.21  | 595.00  | 594.77   | 595.26  |
| FIELD PARAMETERS            |       |                                      |                                   |        |         |          |          |          |          |          |         |         |          |         |
| Temperature                 | C°    | NS                                   | NS                                | 8.8    | 6.8     | 17.7     | 15.6     | 18.9     | 14.45    | 15.27    | 16.25   | 17.20   | 12.97    | 7.73    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 448    | 1979    | 1611     | 1175     | 782      | 992      | 606      | 712     | 917     | 879      | 2160    |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | <1     | 3       | 4        | 5        | --       | 3.77     | 5.29     | 4.03    | 1.67    | 9.38     | 6.24    |
| pH                          |       | NS                                   | NS                                | 7.49   | 6.77    | 7.26     | 7.17     | 6.78     | 7.14     | 6.97     | 6.95    | 6.62    | 5.41     | 6.81    |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --       | --       | --       | -30.8    | 217.8    | 104.2   | 178.0   | 141.3    | 165.2   |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-8   |         |          |          |          |          |          |             |         |          |         |
|-----------------------------|-------|--------------------------------------|-----------------------------------|--------|---------|----------|----------|----------|----------|----------|-------------|---------|----------|---------|
| 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 | 3/21/17 |
| Groundwater Elevation       |       |                                      |                                   |        |         |          |          |          |          |          |             |         |          |         |
| 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    | 6.42    |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 745    | 1462    | 1573     | 1207     | 905      | 841      | 643      |             | 609     | 487      | 400     |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | 6      | 6       | 4        | 5        | --       | 5.06     | 4.37     |             | 1.57    | 16.06    | 3.38    |
| pH                          |       | NS                                   | NS                                | 7.21   | 7.29    | 7.41     | 7.35     | 7.10     | 7.27     | 7.02     |             | 6.83    | 5.70     | 7.10    |
| ORP                         | eV    | NS                                   | NS                                | --     | --      | --       | --       | --       | -30.0    | 104.9    |             | 183.0   | 142.1    | 145.0   |

**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<br>Preventive<br>Action Limit | NR 140<br>Enforcement<br>Standard | MW-9    |          |          |          |          |          |         |         |          |         |  |
|-----------------------------|-------|--------------------------------------|-----------------------------------|---------|----------|----------|----------|----------|----------|---------|---------|----------|---------|--|
| Sample Date                 |       |                                      |                                   | 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 | 3/21/17 |  |
| Groundwater Elevation       |       |                                      | 595.58                            | 594.65  | 595.89   | 593.86   | 593.15   | 595.32   | 594.24   | 594.50  | 593.79  | 593.71   |         |  |
| FIELD PARAMETERS            |       |                                      |                                   |         |          |          |          |          |          |         |         |          |         |  |
| Temperature                 | C°    | NS                                   | NS                                | 9.7     | 16.8     | 15.8     | 17.1     | 12.84    | 13.60    | 12.95   | 17.62   | 11.61    | 7.86    |  |
| Specific Conductivity       | mS/cm | NS                                   | NS                                | 11280   | 3340     | 2790     | 1394     | 824      | 678      | 667     | 705     | 835      | 648     |  |
| Dissolved Oxygen<br>(field) | mg/l  | NS                                   | NS                                | --      | 7        | --       | --       | 2.08     | 8.90     | 2.75    | 1.14    | 2.67     | 2.27    |  |
| pH                          |       | NS                                   | NS                                | 7.02    | 7.74     | 7.49     | 7.14     | 7.78     | 7.31     | 6.79    | 5.68    | 2.19     | 7.07    |  |
| ORP                         | eV    | NS                                   | NS                                | --      | --       | --       | --       | -48.5    | 117.1    | 101.2   | 205.0   | 117.1    | 162.1   |  |

**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: Boring Logs

Appendix C: Laboratory Analytical Reports

Appendix D: Contaminant Trend Analysis

## **Appendix A**

Site Plan





**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**

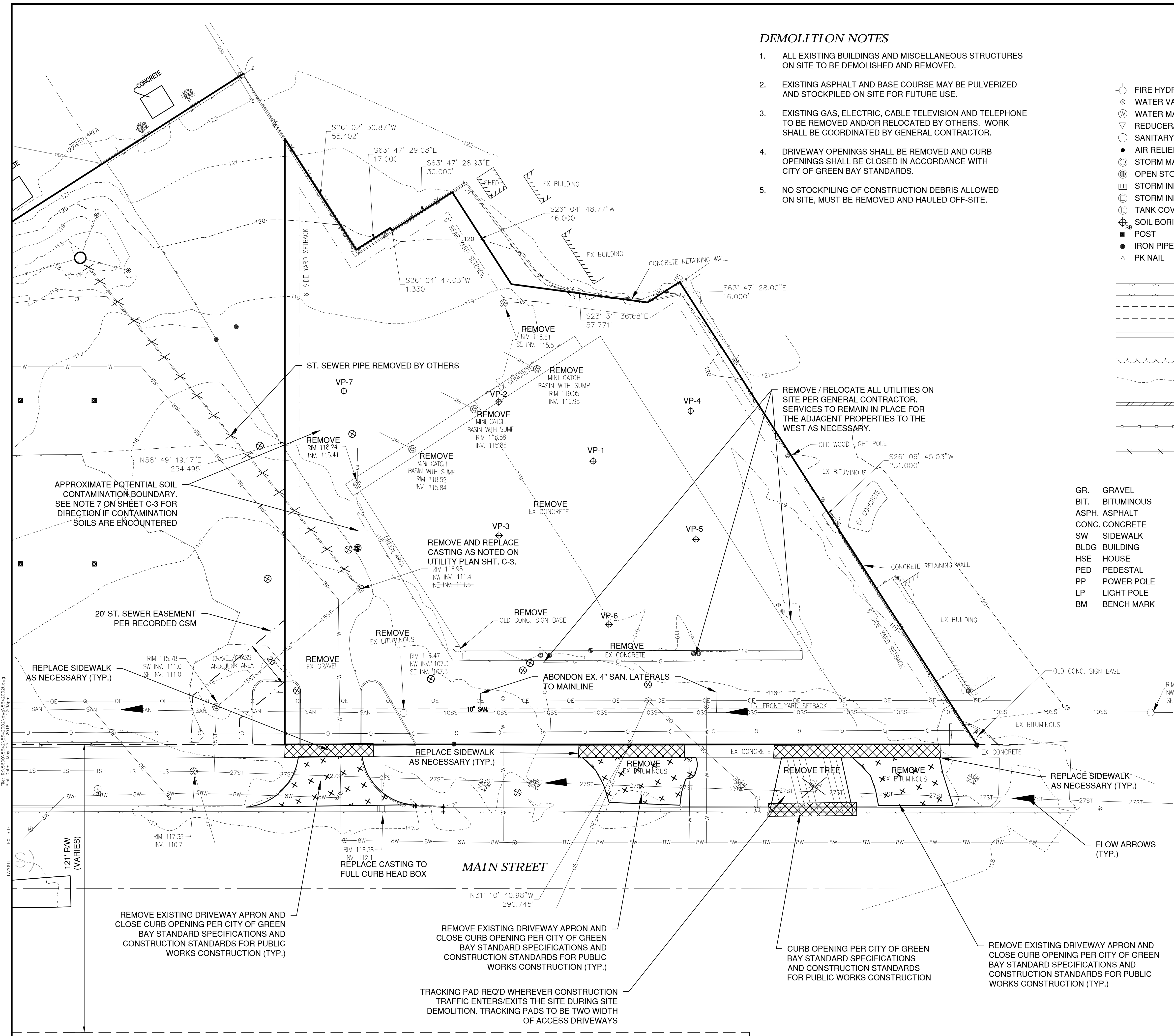
|                         |                         |                    |
|-------------------------|-------------------------|--------------------|
| ○ FIRE HYDRANT          | □ POWER POLE            | ○ DECIDUOUS TREE   |
| ⊗ WATER VALVE/CURB STOP | □ POWER POLE W/GUY WIRE | ○ CONIFEROUS TREE  |
|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

|                           |                             |
|---------------------------|-----------------------------|
| — 8SS — 8SS —             | SANITARY SEWER (SIZE NOTED) |
| — 4FM — 4FM —             | FORCEMAIN (SIZE NOTED)      |
| — 10ST — 10ST —           | STORM SEWER (SIZE NOTED)    |
| — 6W — 6W —               | WATERMAIN (SIZE NOTED)      |
| — G — G —                 | GAS LINE                    |
| — OT — OT —               | OVERHEAD TELEPHONE LINE     |
| — T — T —                 | UNDERGROUND TELEPHONE LINE  |
| — OE — OE —               | OVERHEAD ELECTRIC LINE      |
| — E — E —                 | UNDERGROUND ELECTRIC LINE   |
| — OTV — OTV —             | OVERHEAD CABLE TV LINE      |
| — TV — TV —               | CABLE TV LINE               |
| — F — F —                 | FIBER OPTIC LINE            |
| — R/W LINE —              | R/W LINE                    |
| — PROPERTY LINE —         | PROPERTY LINE               |
| — EASEMENT LINE —         | EASEMENT LINE               |
| — BUILDING SETBACK LINE — | BUILDING SETBACK LINE       |
| — SECTION 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               | CL CENTERLINE                |
| HSE HOUSE       | CB CATCH BASIN     | R RADIUS                           | RL 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                |



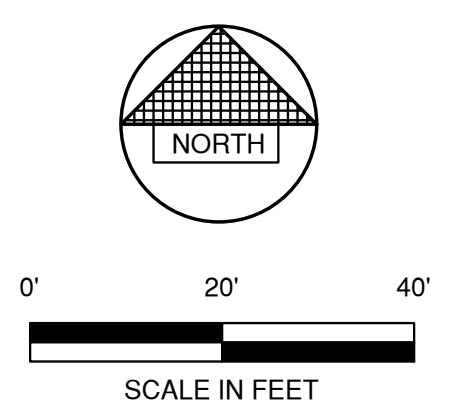
| BENCHMARK |                         |        |
|-----------|-------------------------|--------|
| NO.       | DESCRIPTION             | EL.    |
| 1         | TOP NUT ON FIRE HYDRANT | 119.88 |

**OWNER INFORMATION:**

GB REAL ESTATE INVESTMENTS, 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.



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

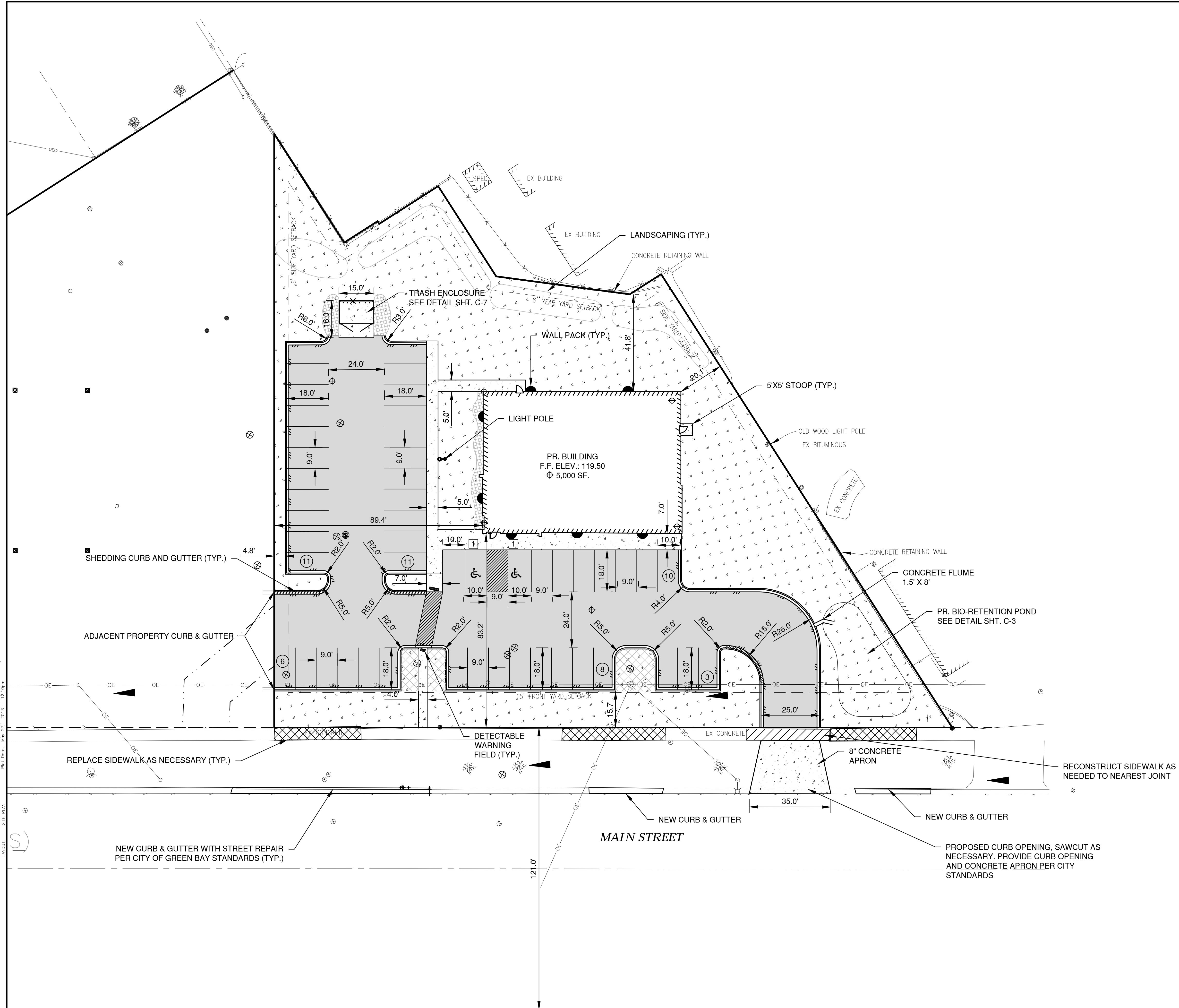
PROPOSED FAMILIA DENTAL FOR  
 GB REAL ESTATE INVESTMENTS, LLC.  
 CITY OF GREEN BAY  
 BROWN COUNTY, WISCONSIN

EXISTING SITE CONDITIONS

|         |          |
|---------|----------|
| DATE    | 05/20/16 |
| FILE    | 5642002T |
| JOB NO. | 5642002  |

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 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 SHEDDING CURB & GUTTER
- TRAFFIC FLOW ARROW
- HANDICAPPED PARKING
- INDICATES NUMBER OF PARKING STALLS
- LIGHT POLE
- WALL PACK

\*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.

File: P:\3000\5642\56420201.dwg  
 Plot Date: May 27, 2016 11:13:00am  
 SITE PLAN  
 LAYOUT

| 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

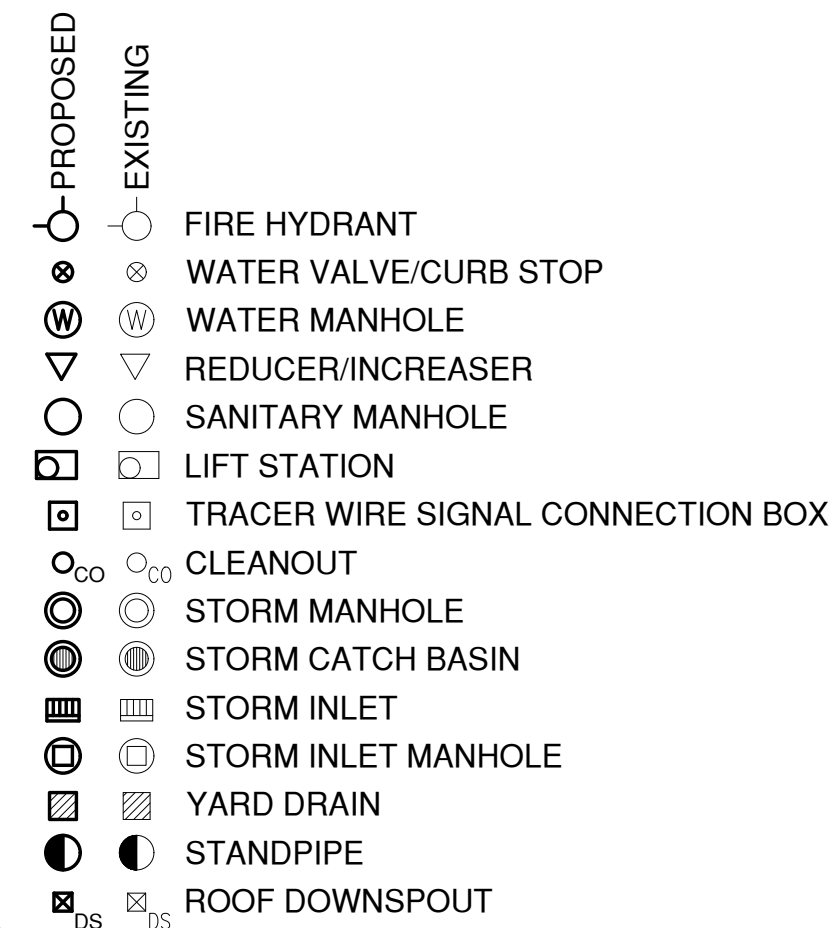
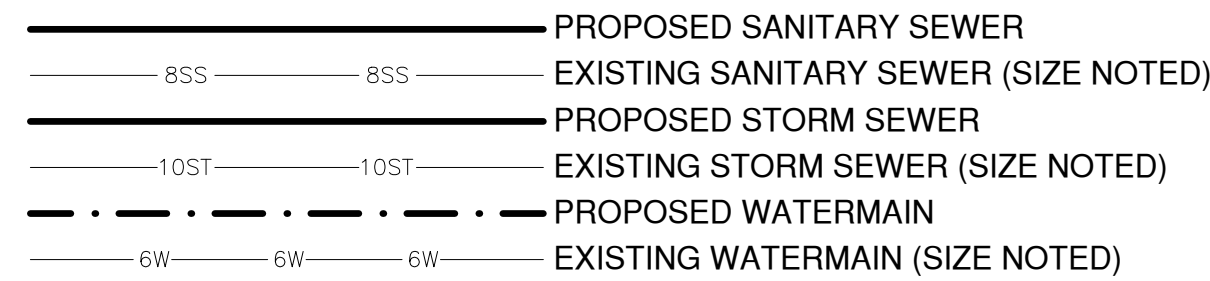
SITE PLAN

DATE: 05/20/16  
 FILE: 56420201  
 JOB NO.: 56420202

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SHEET NO. C-2

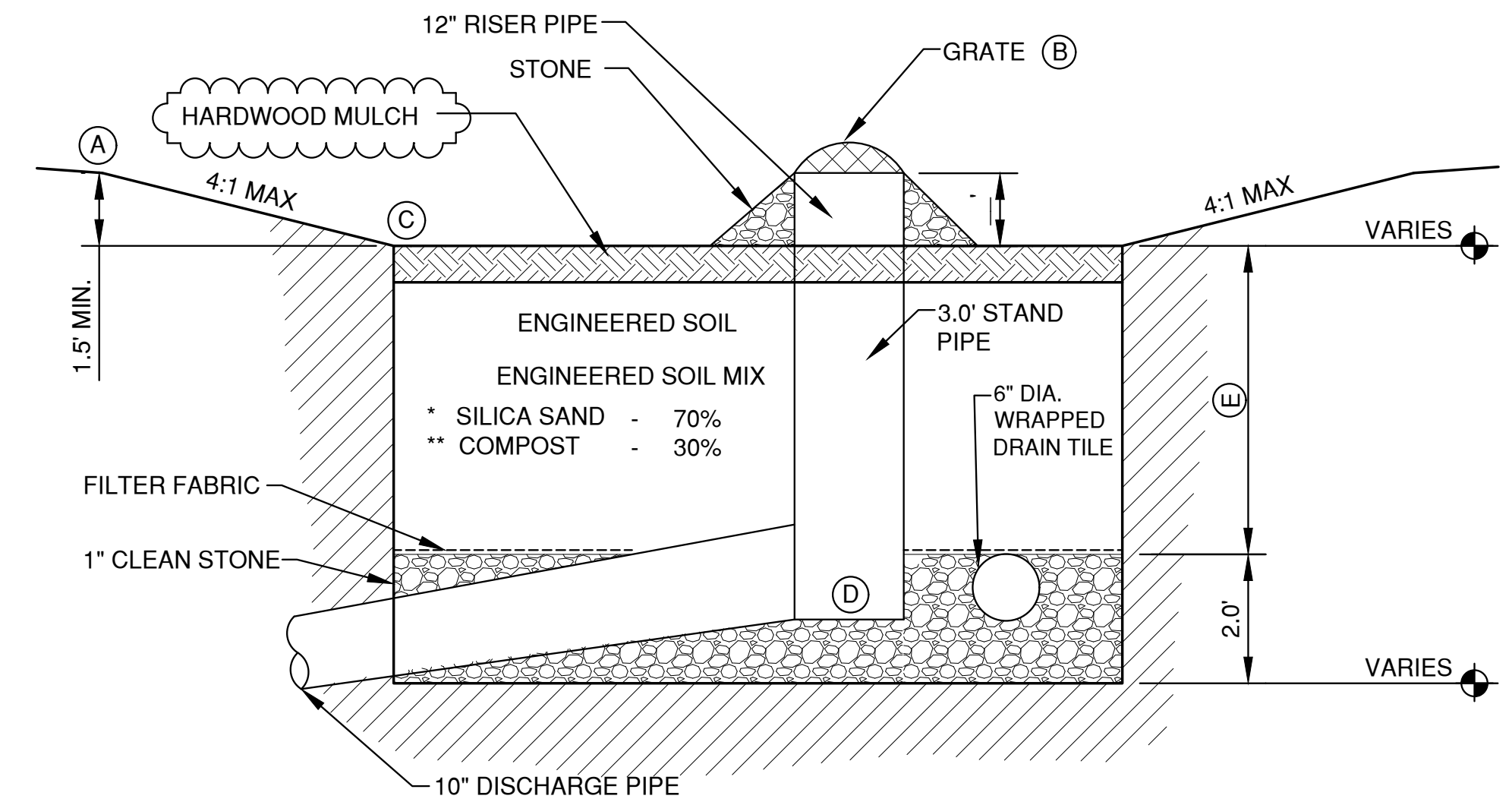
**LEGEND**



**NOTE:**

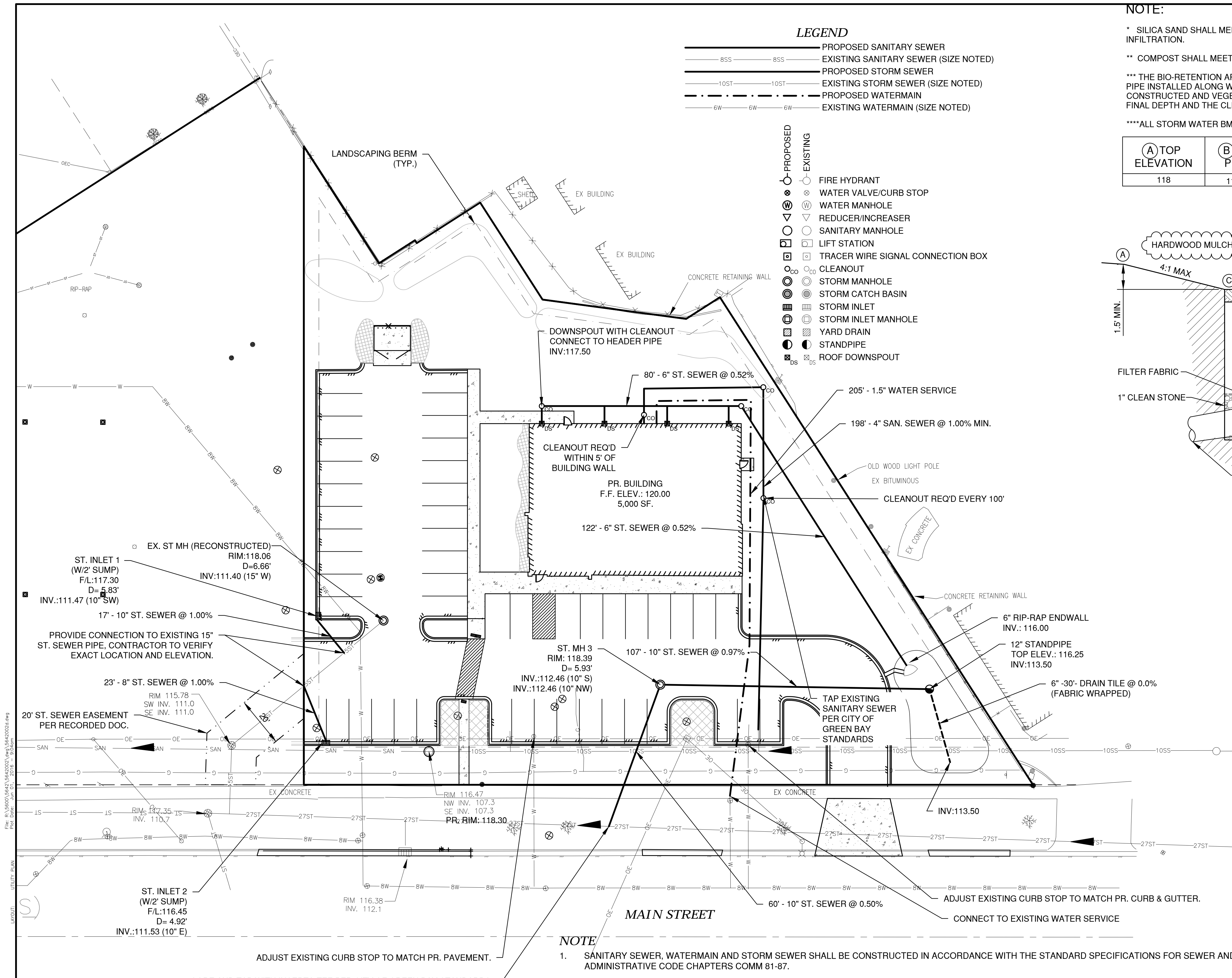
- \* SILICA SAND SHALL MEET THE REQUIREMENTS OF WDNR TECHNICAL STANDARD 1004, BIORETENTION FOR INFILTRATION.
- \*\* COMPOST SHALL MEET THE REQUIREMENTS OF WDNR SPECIFICATION S100.
- \*\*\* THE BIO-RETENTION AREA SHALL BE EXCAVATED TO THE ENGINEERED SOIL DEPTH AND THE 4" DISCHARGE PIPE INSTALLED ALONG 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 |
|---------------------------------|-------------------------|---------------|
| <b>Forbs</b>                    |                         |               |
| <i>Anemone canadensis</i>       | Canada Anemone          | 19            |
| <i>Asclepias incarnata</i>      | Marsh Milkweed          | 11            |
| <i>Aster novae-angliae</i>      | New England Aster       | 19            |
| <i>Aster umbellatus</i>         | Flat-topped Aster       | 11            |
| <i>Chelone glabra</i>           | Turtlehead              | 22            |
| <i>Eupatorium maculatum</i>     | Spotted Joe-Pye Weed    | 22            |
| <i>Eupatorium perfoliatum</i>   | Boneset                 | 33            |
| <i>Geranium maculatum</i>       | Wild Geranium           | 26            |
| <i>Helentium autumnale</i>      | Sneezeweed              | 26            |
| <i>Iris versicolor</i>          | Northern Blue Flag Iris | 37            |
| <i>Liatris pycnostachya</i>     | Prairie Blazing Star    | 30            |
| <i>Lobelia cardinalis</i>       | Cardinal Flower         | 11            |
| <i>Lobelia siphilitica</i>      | Great Blue Lobelia      | 22            |
| <i>Physostegia virginiana</i>   | Obedient Plant          | 7             |
| <i>Pycnanthemum virginianum</i> | Common Mountain Mint    | 37            |
| <i>Solidago riddellii</i>       | Riddell's Goldenrod     | 7             |
| <i>Verbena hastata</i>          | Blue Vervain            | 30            |
| <i>Zizia aurea</i>              | Golden Alexanders       | 7             |
| <b>Grasses</b>                  |                         |               |
| <i>Anthoxanthum hirtum</i>      | Sweet Grass             | 26            |
| <i>Calamagrostis canadensis</i> | Bluejoint               | 59            |
| <i>Carex bebbii</i>             | Bebb's Sedge            | 19            |
| <i>Carex cristatella</i>        | Crested Oval Sedge      | 33            |
| <i>Carex vulpinoidea</i>        | Brown Fox Sedge         | 74            |
| <i>Elymus virginicus</i>        | Virginia Wild Rye       | 30            |
| <i>Spartina pectinata</i>       | Prairie Cord Grass      | 11            |
| <b>TOTAL</b>                    |                         | <b>629</b>    |



**NOTE**

- 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.
- FIELD VERIFY LOCATION OF EXISTING UTILITIES. IF EXISTING LOCATIONS DIFFER FROM WHAT IS INDICATED ON THE PLANS, CONTACT ENGINEER, PRIOR TO CONTINUED WORK.
- ALL SANITARY SEWER, STORM SEWER AND WATER SERVICES / MAINS SHALL BE PROVIDED WITH TRACER WIRE OR OTHER METHOD TO BE LOCATED.
- 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.
- 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.
- CONTRACTOR TO ACQUIRE REQUIRED PERMITS PRIOR TO START OF CONSTRUCTION, TO INCLUDE STREET EXCAVATION, STREET CONSTRUCTION, CURB CUT, SIDEWALK BUILDING GRADE, ETC.

**PLUMBING DATA**

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

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

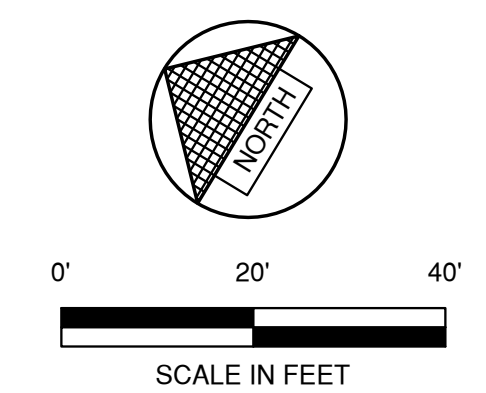
PROPOSED FAMILIA DENTAL FOR  
GB REAL ESTATE INVESTMENTS, LLC.  
CITY OF GREEN BAY  
BROWN COUNTY, WISCONSIN

UTILITY PLAN

|         |          |
|---------|----------|
| DATE    | 05/20/16 |
| FILE    | 5642002D |
| JOB NO. | 5642002  |

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SHEET NO.  
**C-3**



| BENCHMARK |                         | BENCHMARK ESTABLISHED BY:<br>ROBERT E. LEE & ASSOCIATES, INC. |
|-----------|-------------------------|---|
| 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.

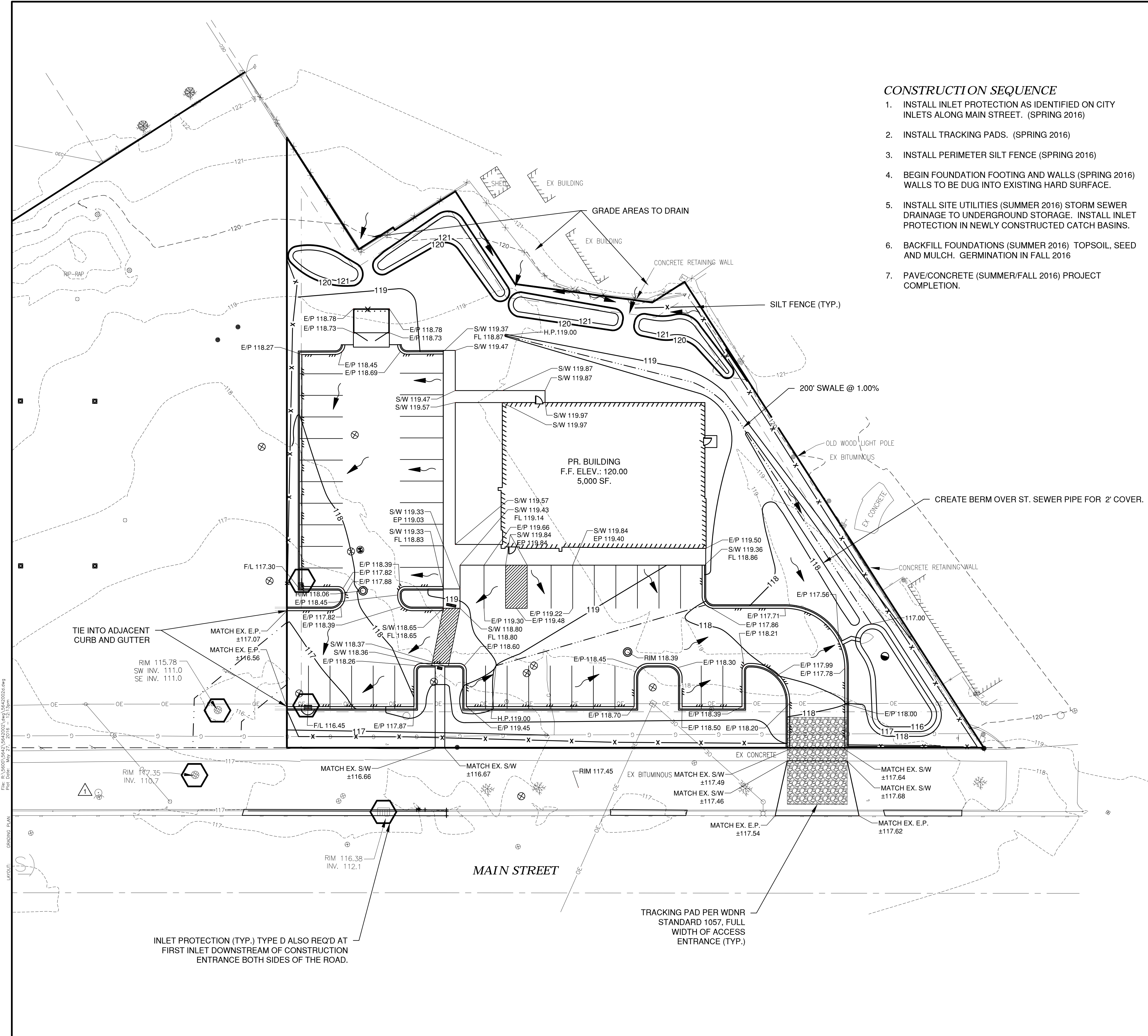
### EROSION CONTROL

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.

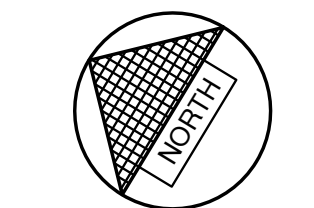
### LEGEND

|  |            |                                 |
|--|------------|---------------------------------|
|  | 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                 |
|  | X          | SILT FENCE                      |
|  |            | BAFFLE DITCH CHECK              |
|  |            | FLOW ARROW                      |
|  |            | TRACKING PAD                    |
|  |            | INLET PROTECTION                |



INLET PROTECTION (TYP.) TYPE D ALSO REQ'D AT FIRST INLET DOWNSTREAM OF CONSTRUCTION ENTRANCE BOTH SIDES OF THE ROAD.

TRACKING PAD PER WDNR STANDARD 1057, FULL WIDTH OF ACCESS ENTRANCE (TYP.)



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

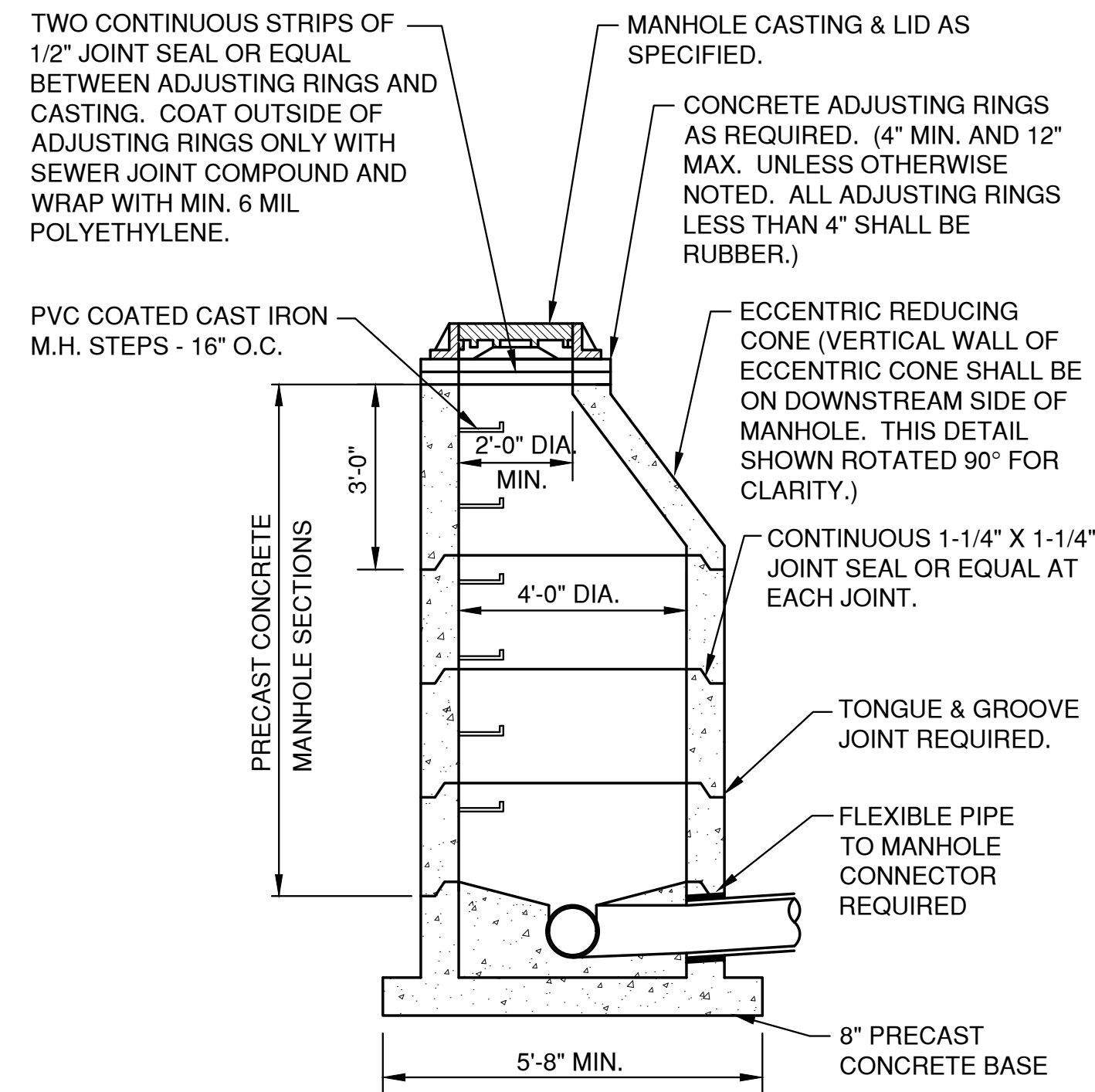
PROPOSED FAMILIA DENTAL FOR  
GB REAL ESTATE INVESTMENTS, LLC.  
CITY OF GREEN BAY  
BROWN COUNTY, WISCONSIN

GRADING AND EROSION CONTROL PLAN

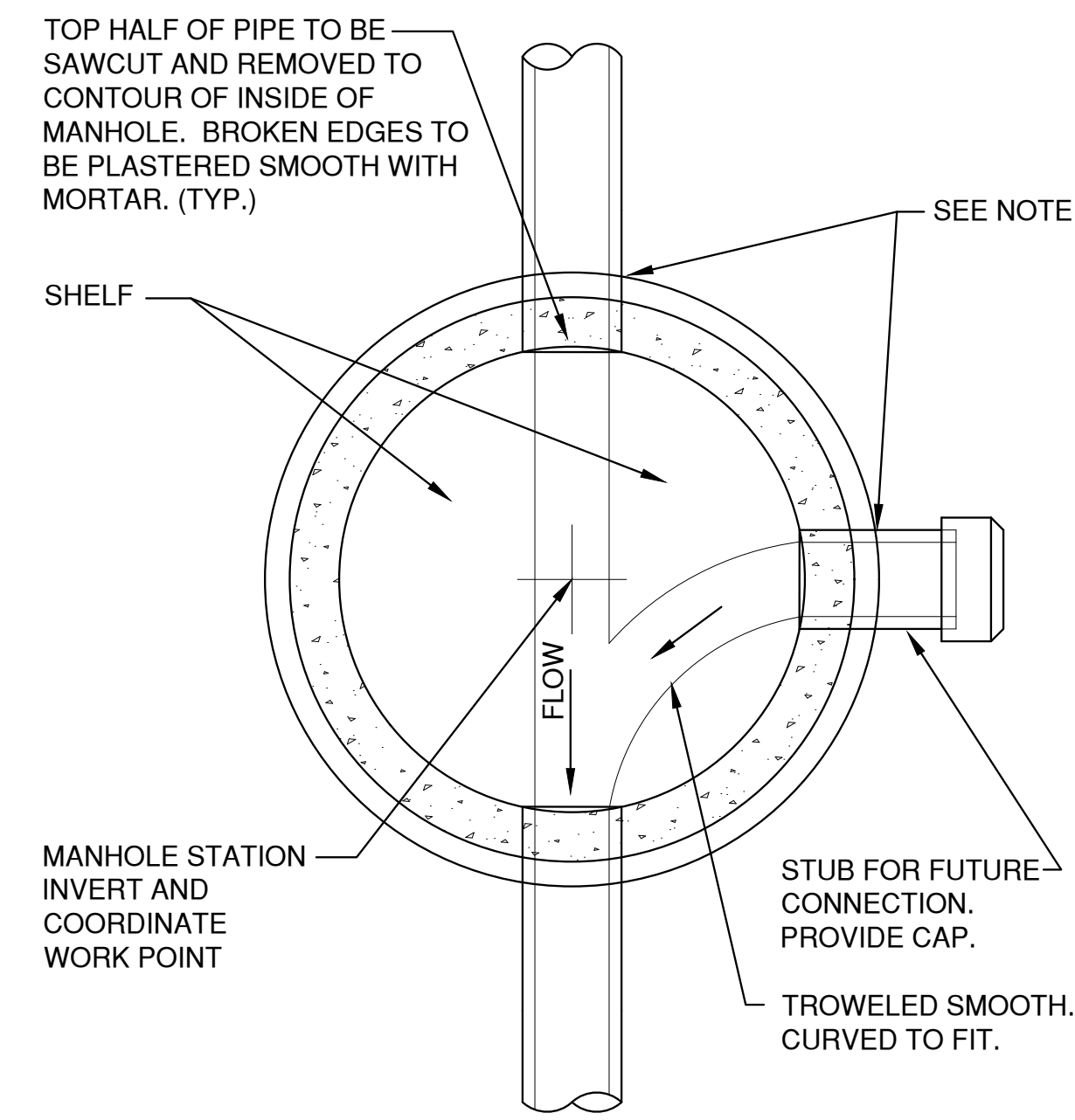
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|---------|----------|
| DATE    | 05/20/16 |
| FILE    | 5642002D |
| JOB NO. | 5642002  |

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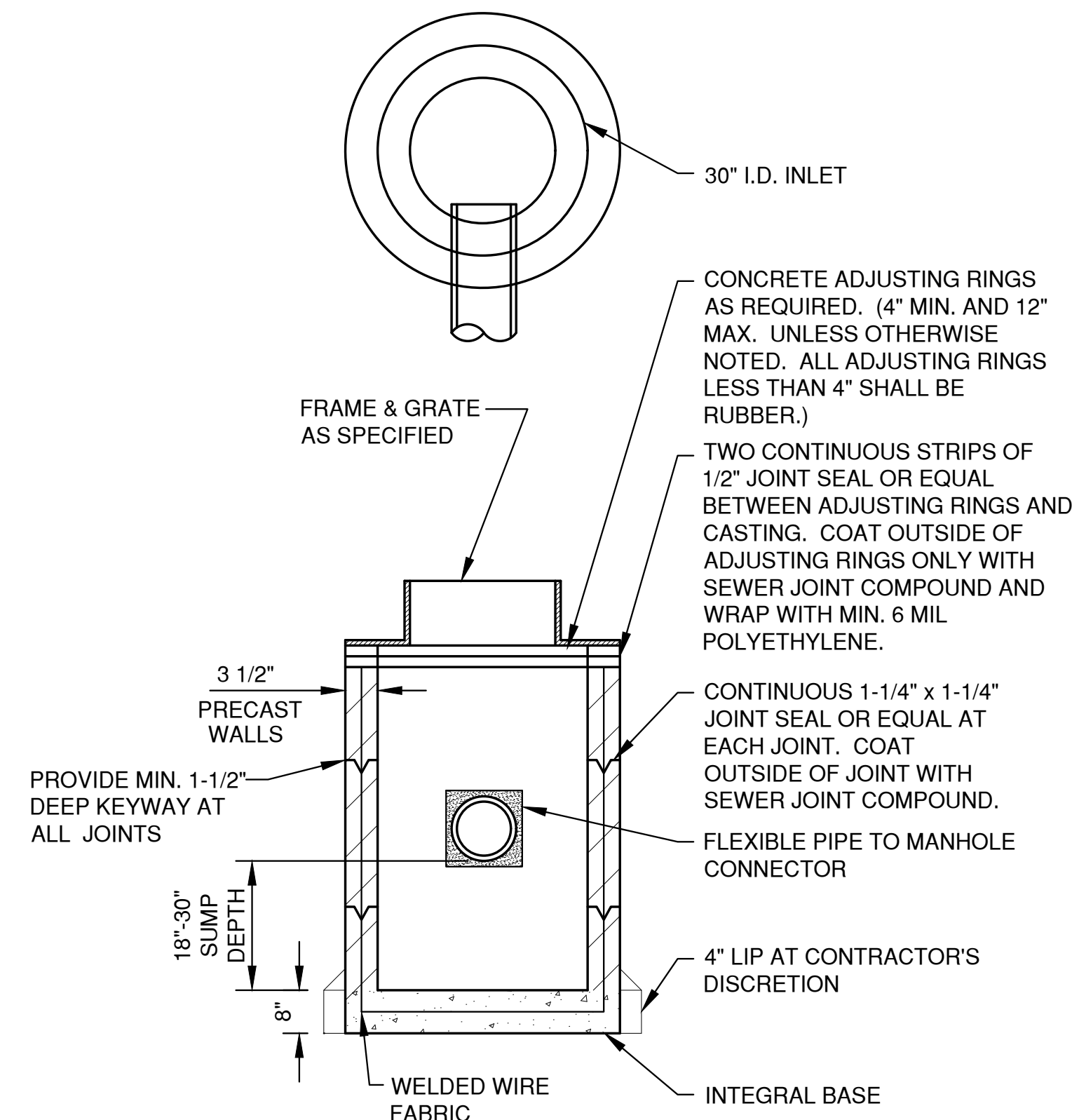
SHEET NO.  
**C-4**



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

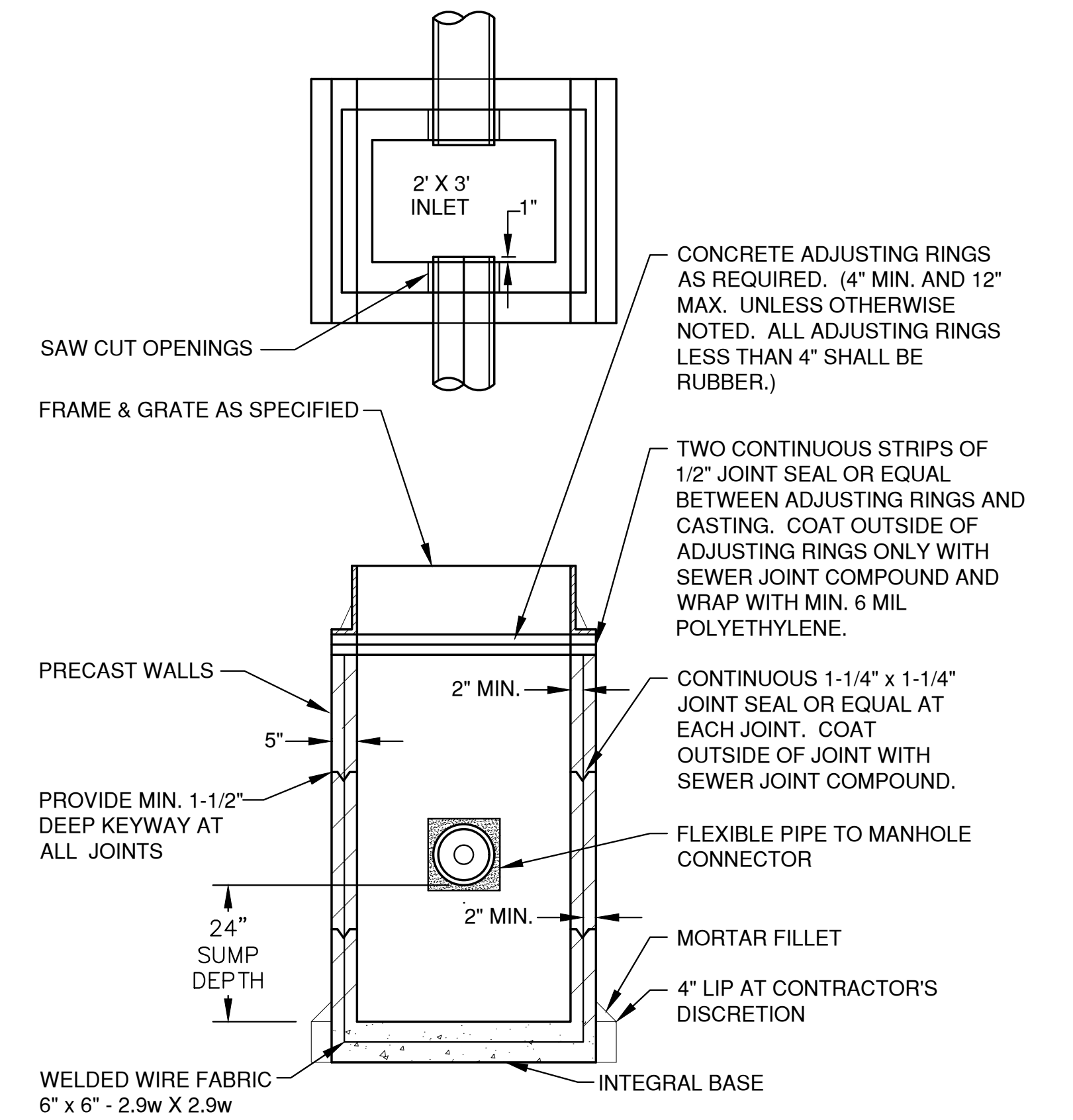


**MANHOLE BASE PLAN  
8" - 60" (INCLUSIVE)**



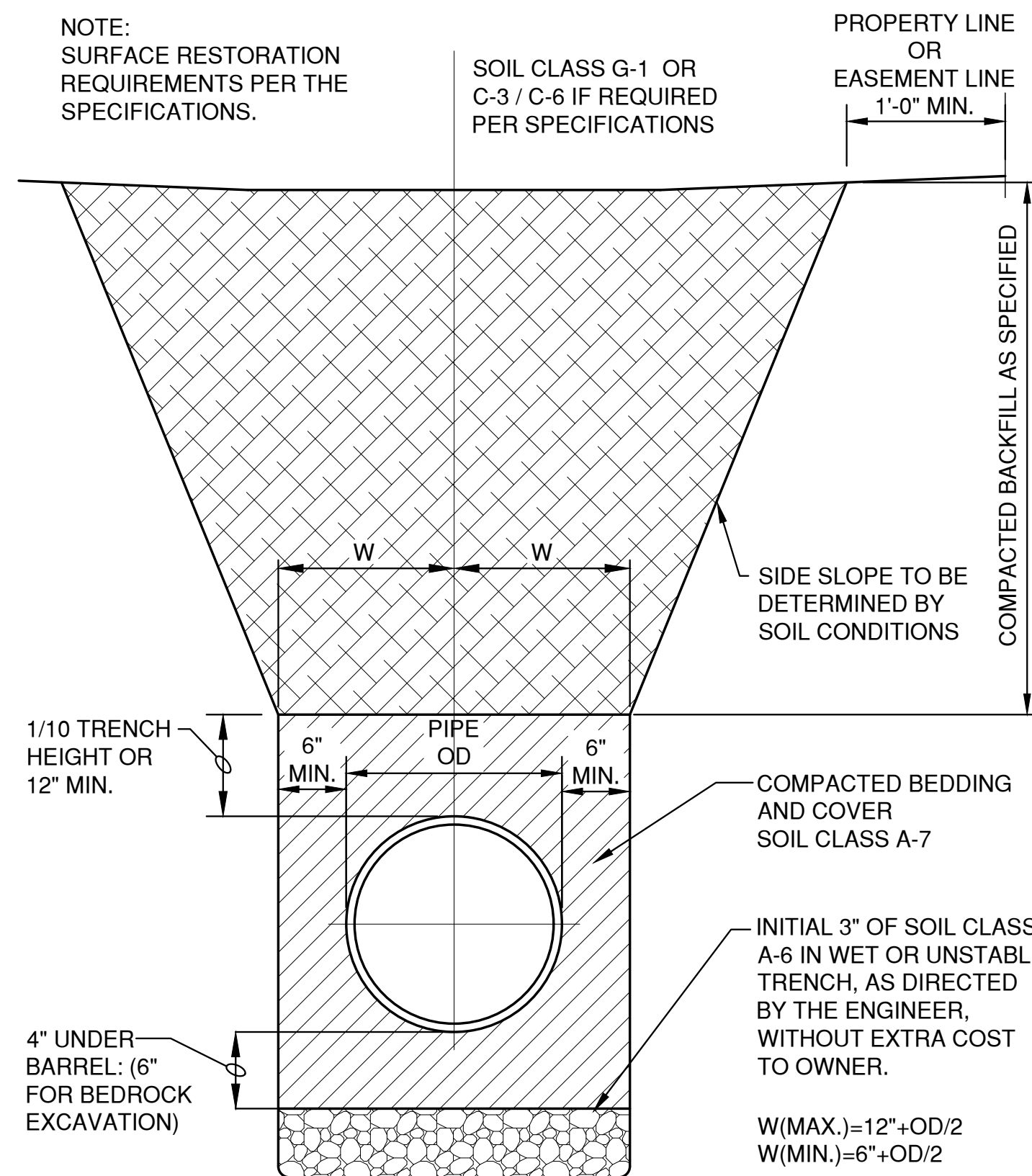
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199

**TYPE 'A' STORM INLET**

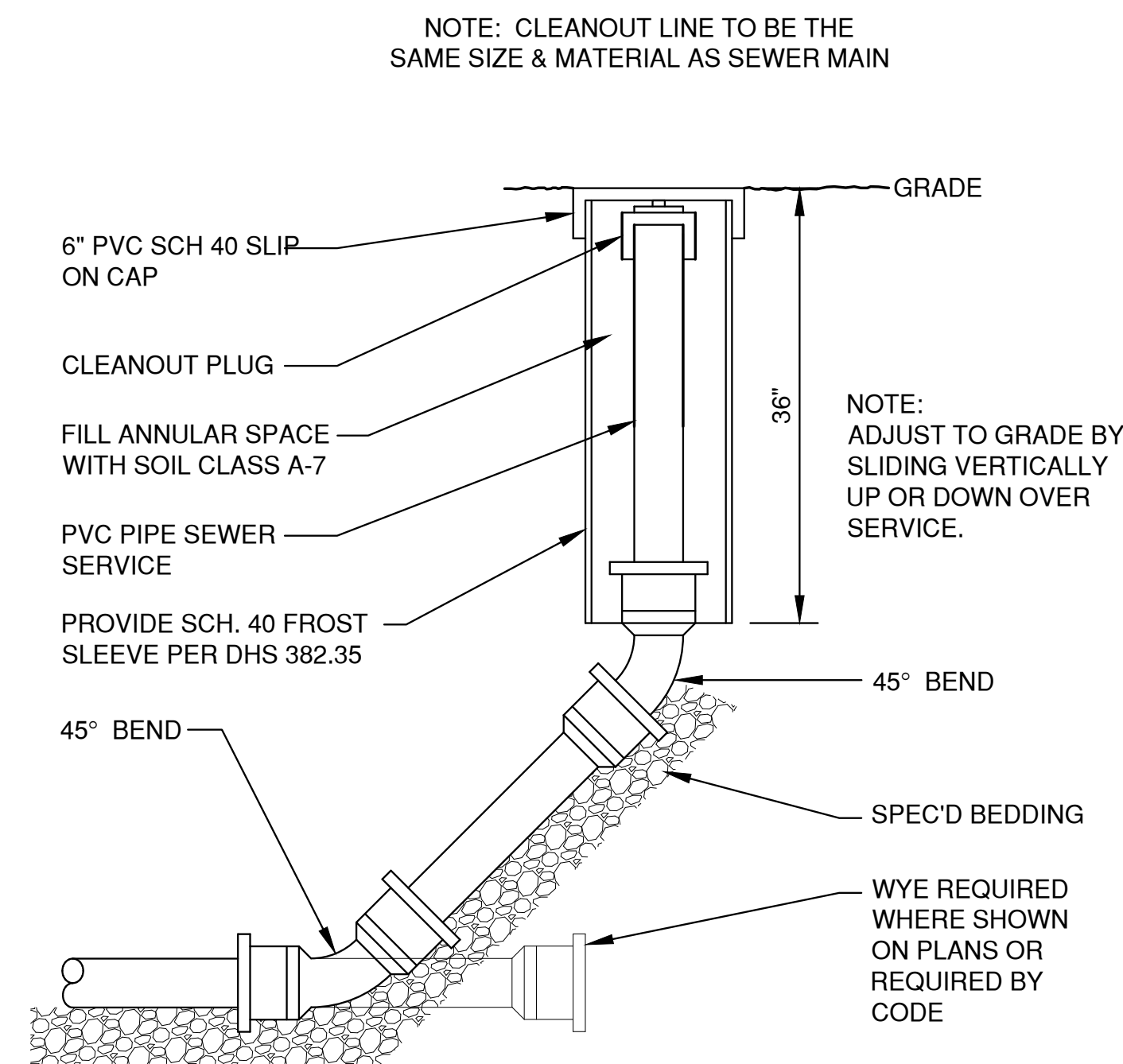


ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199

**TYPE 'B' STORM INLET**



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



**CLEAN-OUT DETAIL  
(NON-TRAVELED AREAS)**

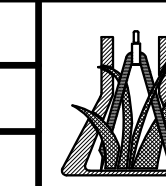
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| NO. | DATE    | APPROV. | REVISION             | NO. | DATE | APPROV. | REVISION | DRAWN |
|-----|---------|---------|----------------------|-----|------|---------|----------|-------|
| 1   | 5-10-16 | JGS     | CITY SUBMITTAL       |     |     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

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CITY OF GREEN BAY  
BROWN COUNTY, WISCONSIN

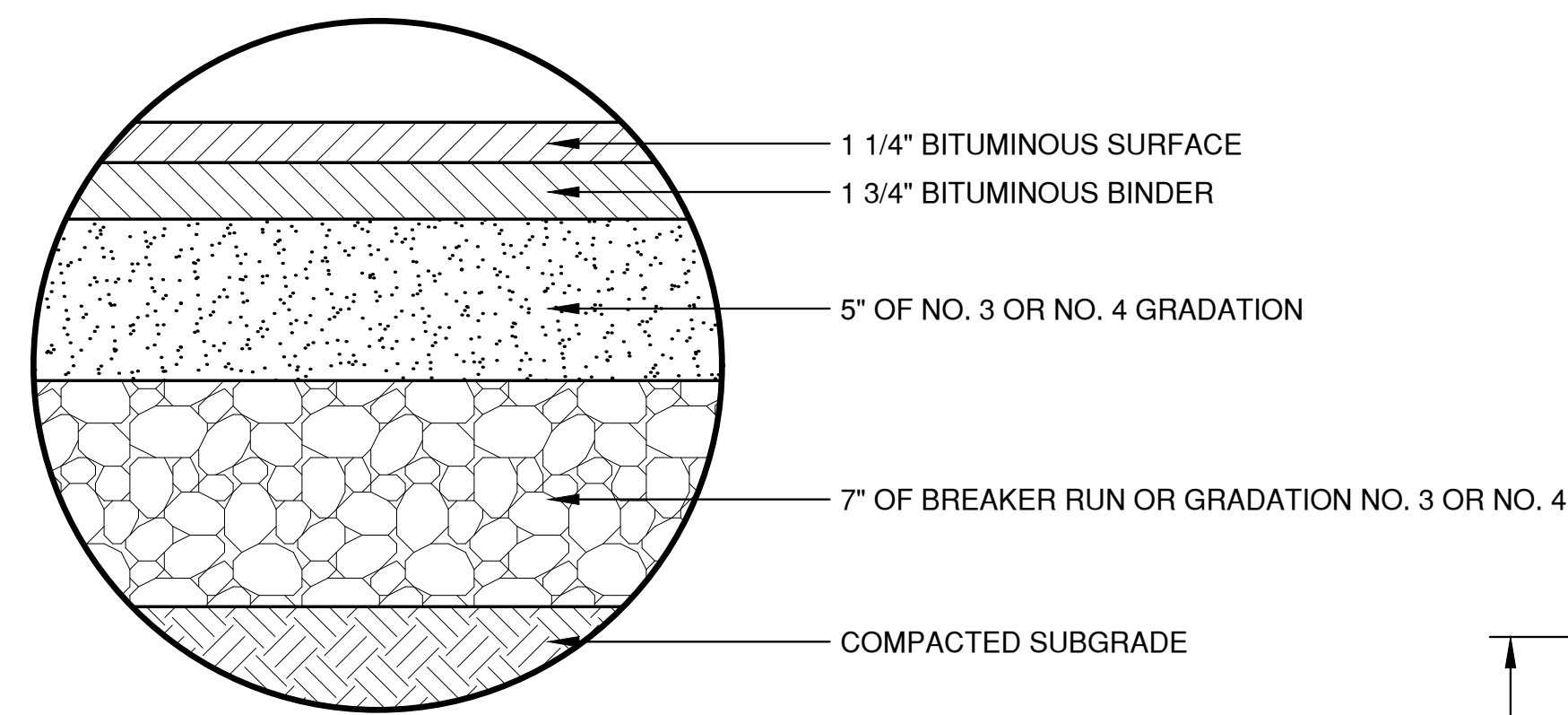
MISCELLANEOUS DETAILS

|         |          |
|---------|----------|
| DATE    | 05/20/16 |
| FILE    | DETAILS  |
| JOB NO. | 6642002  |

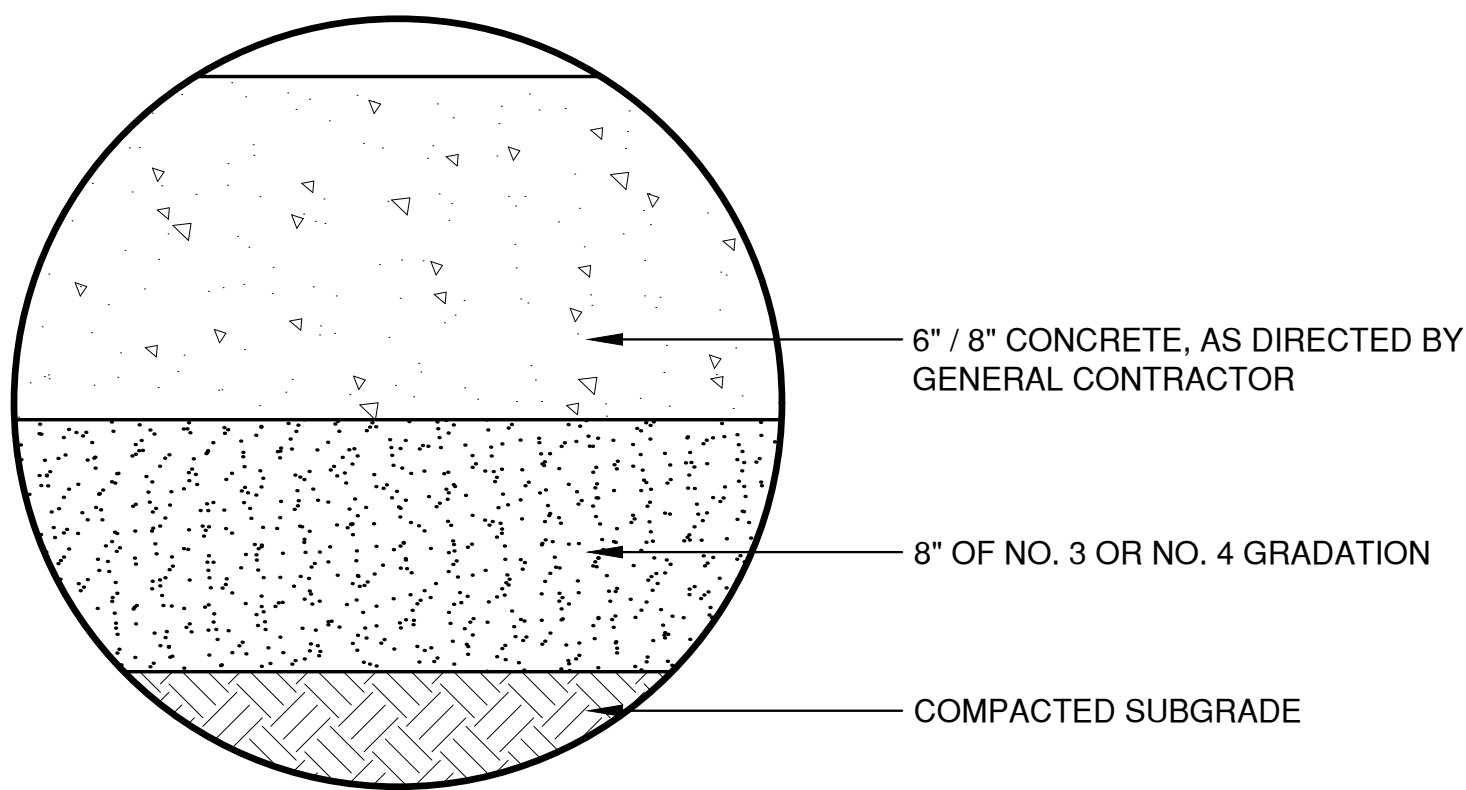


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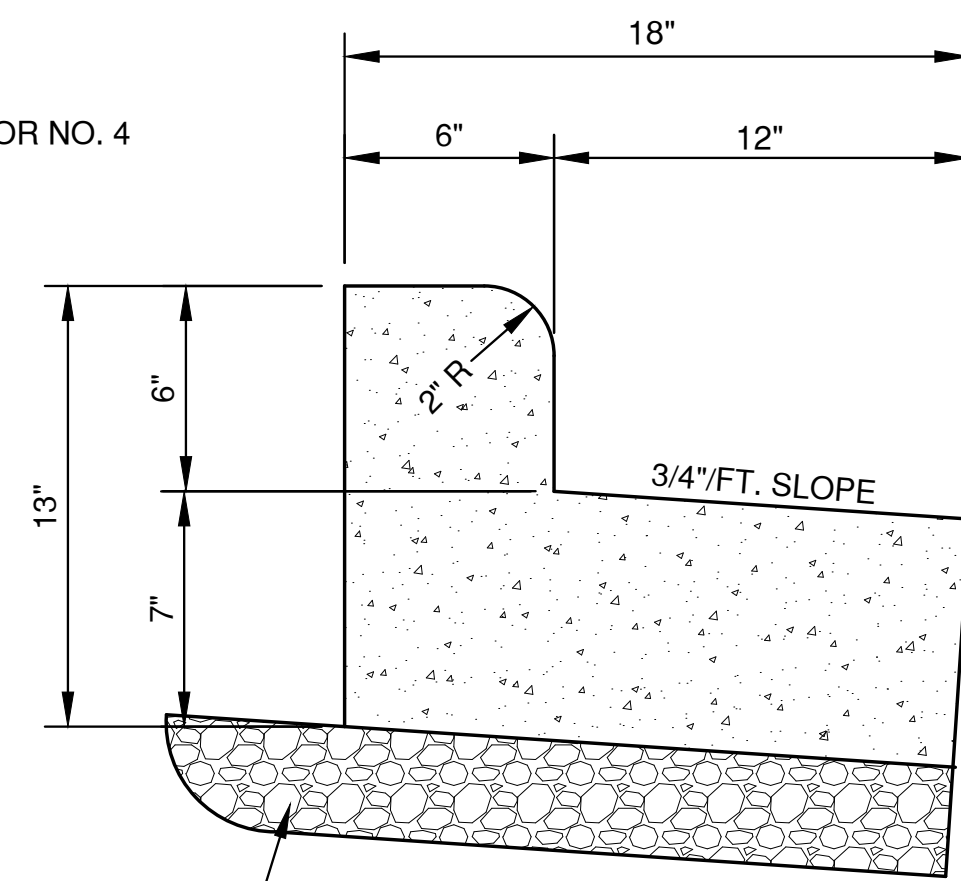
SHEET NO.  
**C-5**



ASPHALT PAVEMENT DETAIL

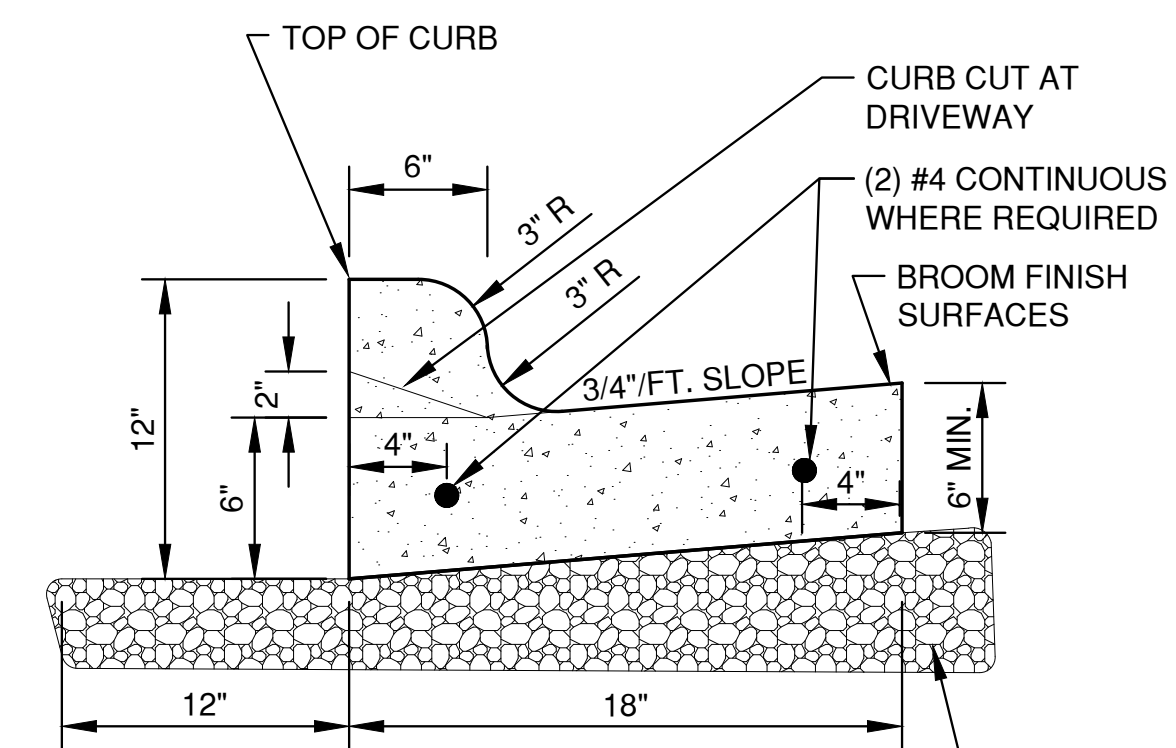


6" / 8" CONCRETE PAVEMENT DETAIL



- 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.

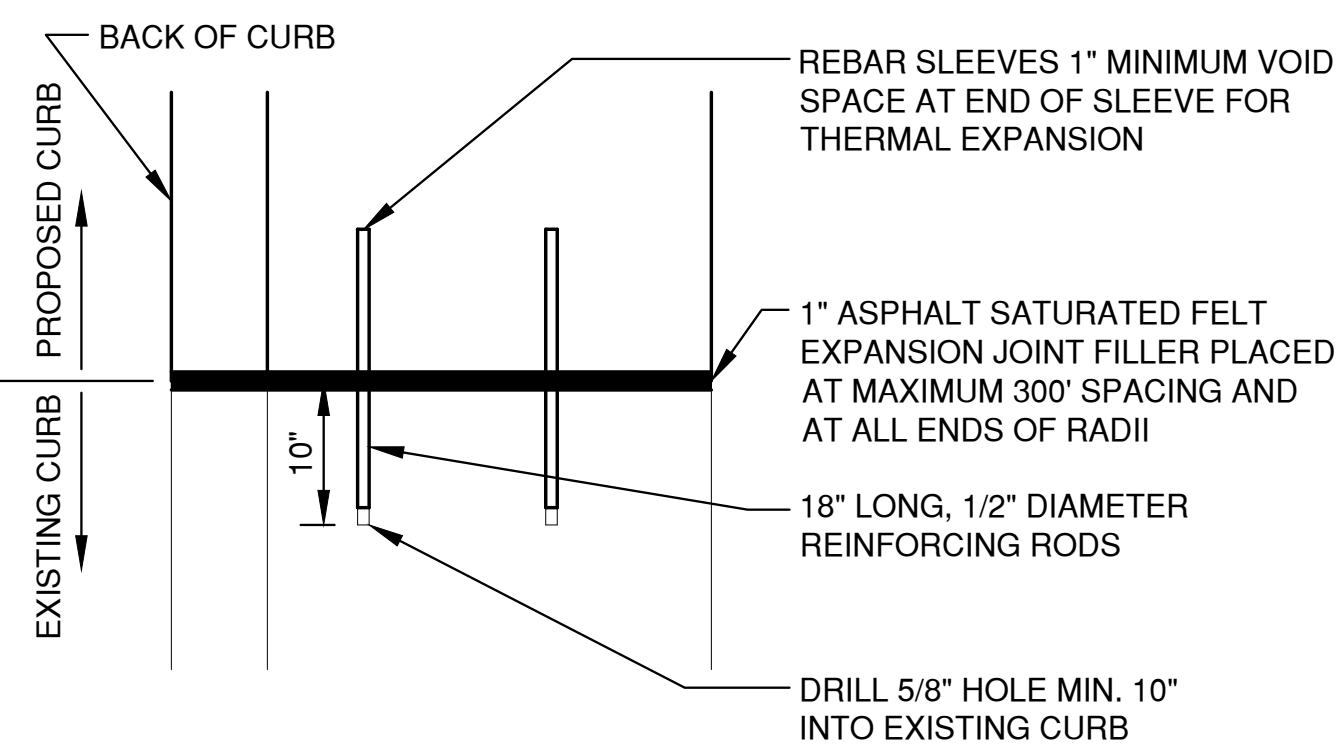
SHEDDING CURB DETAIL



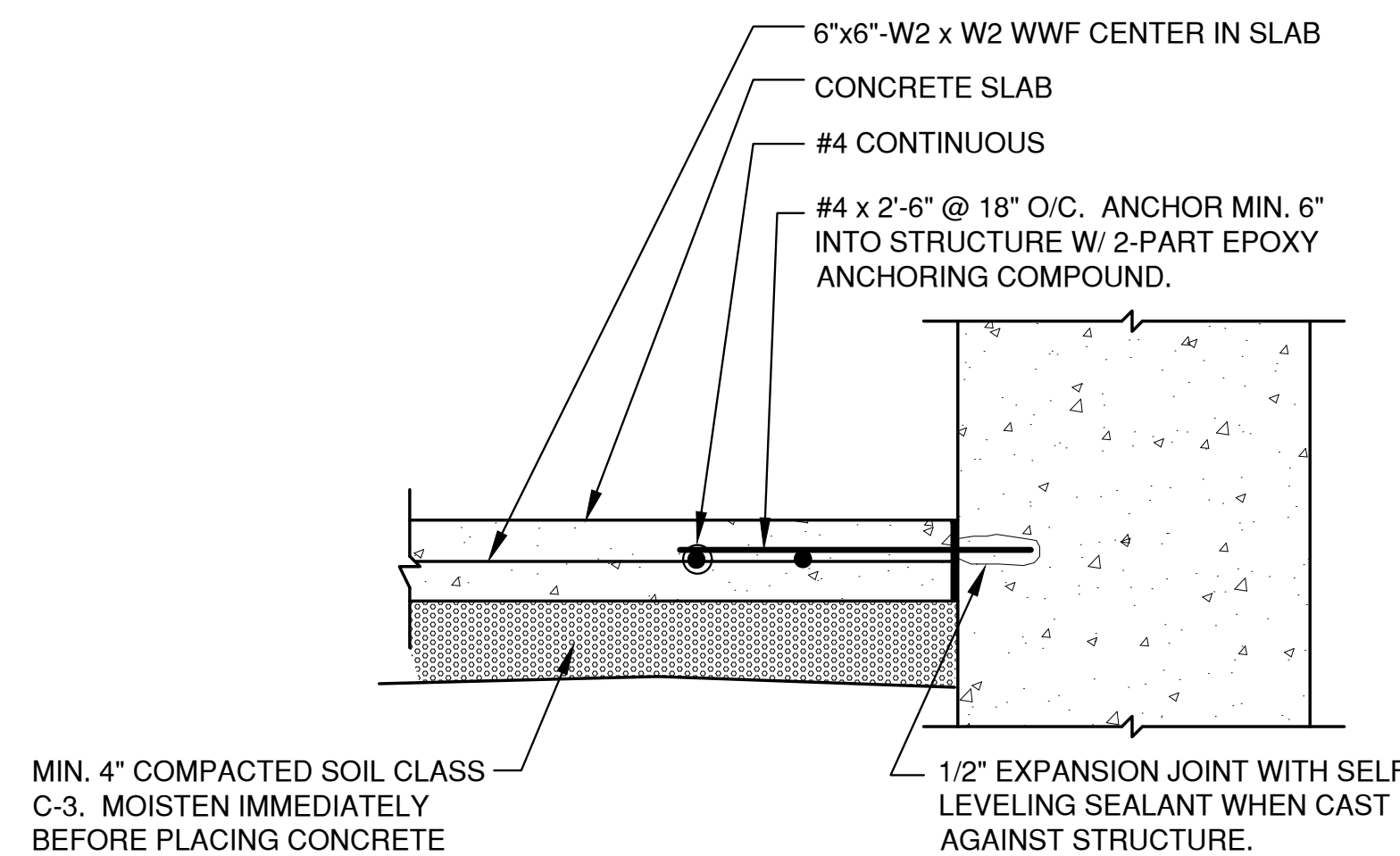
- NOTE:**  
PROVIDE 1" EXPANSION JOINTS AT 300' INTERVALS AND 3 FEET EACH SIDE OF INLET CASTINGS OR AS SPECIFIED. PROVIDE CONTRACTION JOINTS EVERY 10' OR AS DIRECTED.

STANDARD CURB & GUTTER

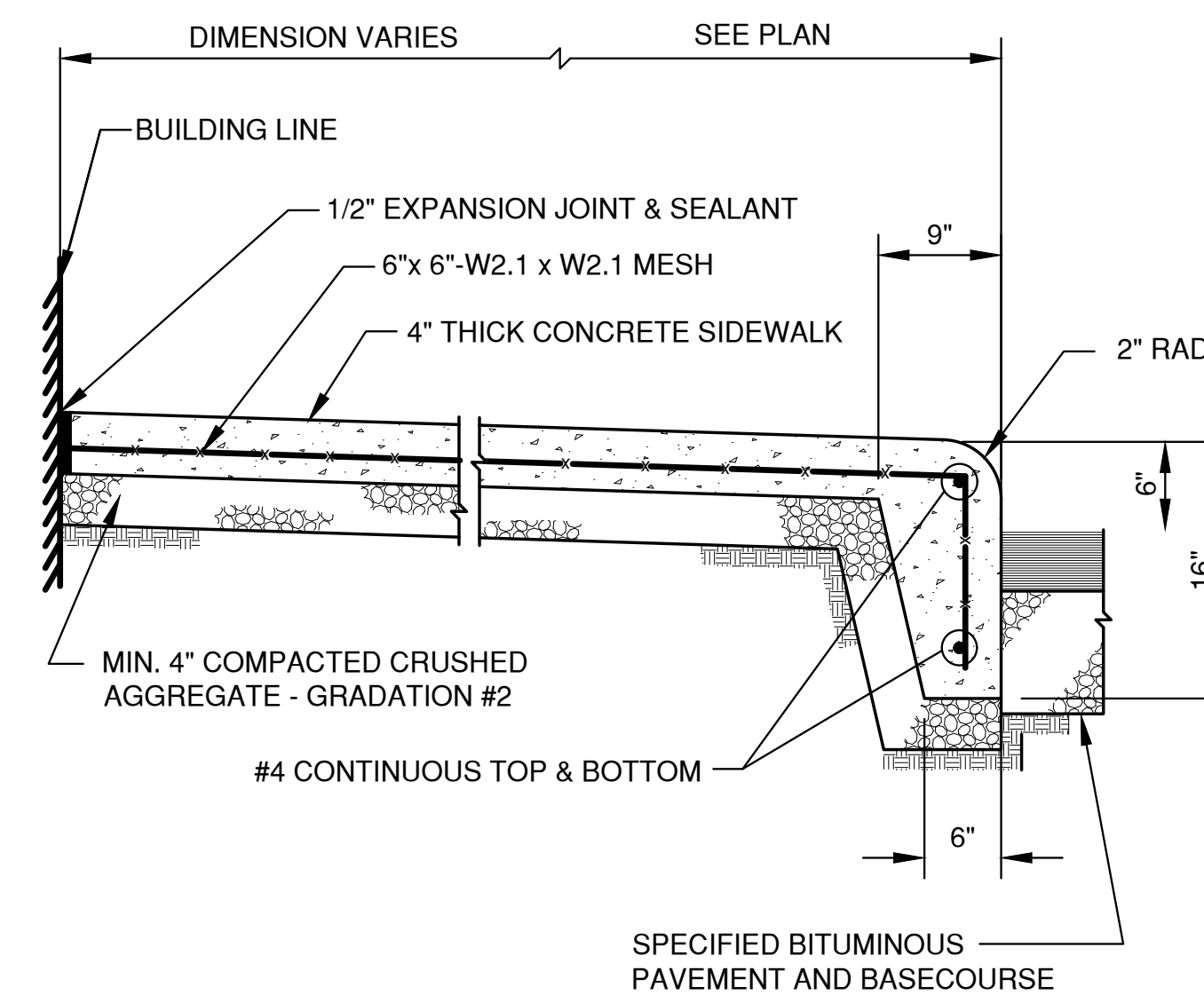
**NOTE:**  
PROVIDE CONTRACTION JOINTS AT MAXIMUM 20' SPACING BY SAW CUTTING OR INSERTION OF DIVIDER PLATES



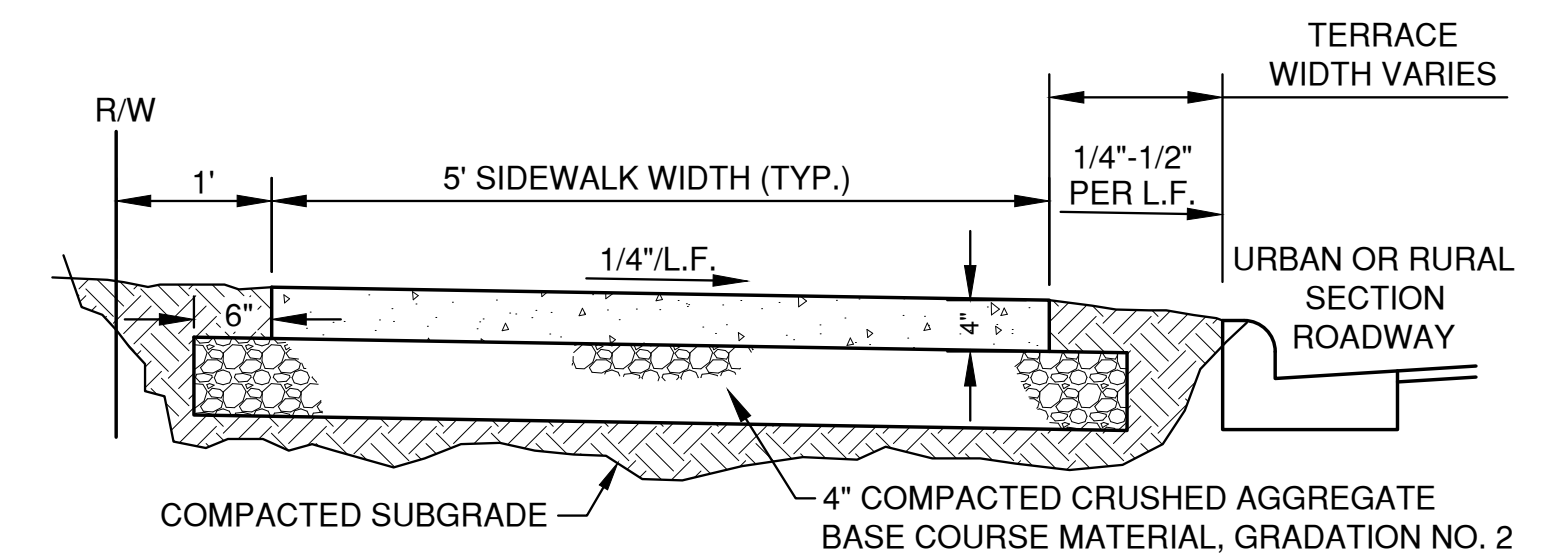
CURB TIE-IN DETAIL  
(PROPOSED TO EXISTING)



TYPICAL SIDEWALK ADJACENT TO STRUCTURE

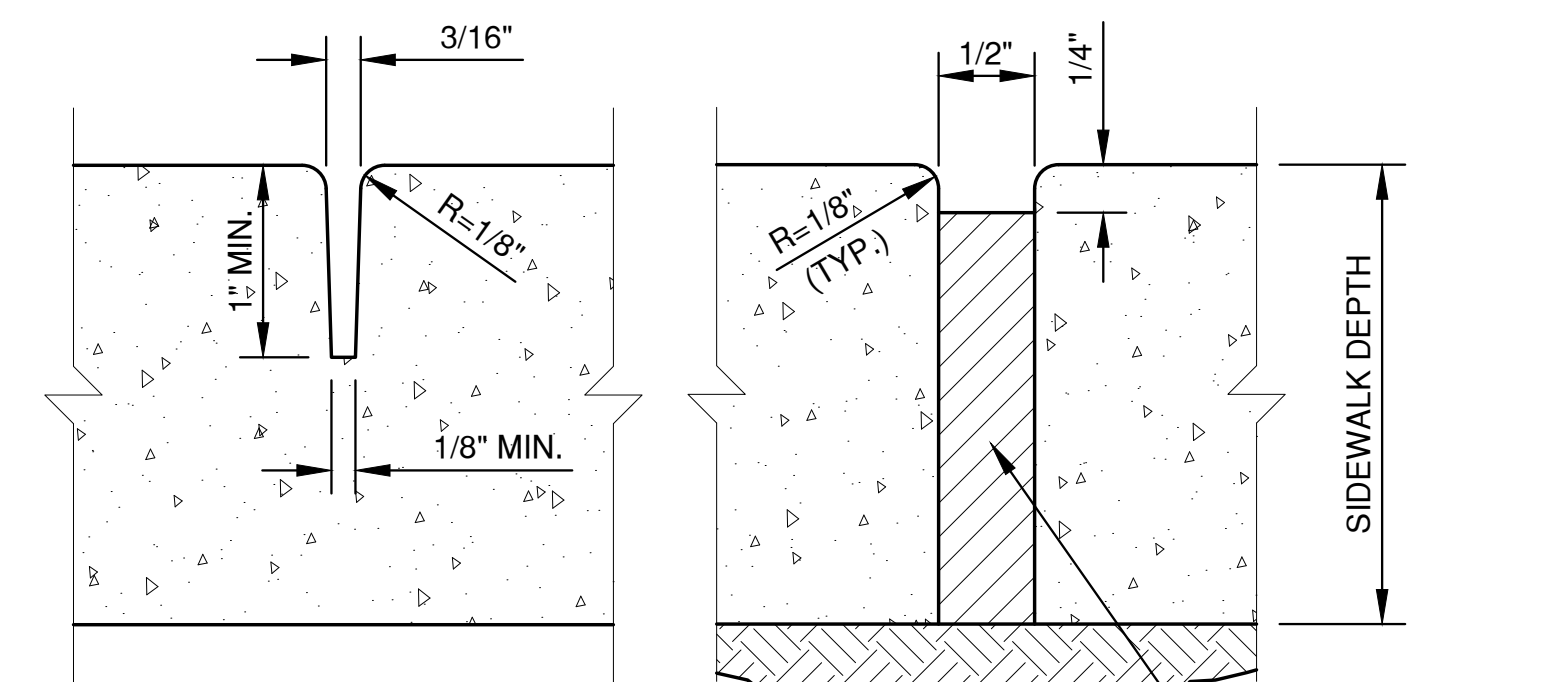


SIDEWALK WITH INTEGRAL CURB



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

File: P:\3000\661\4642001\464\DETAILS.dwg  
 Plot Date: May 25, 2016 9:30:20am  
 LAYOUT: DETAILS-2

| NO. | DATE    | APPROV. | REVISION             | NO. | DATE | APPROV. | REVISION | DRAWN |
|-----|---------|---------|----------------------|-----|------|---------|----------|-------|
| 1   | 5-10-16 | JGS     | CITY SUBMITTAL       |     |      |         |          | BLT   |
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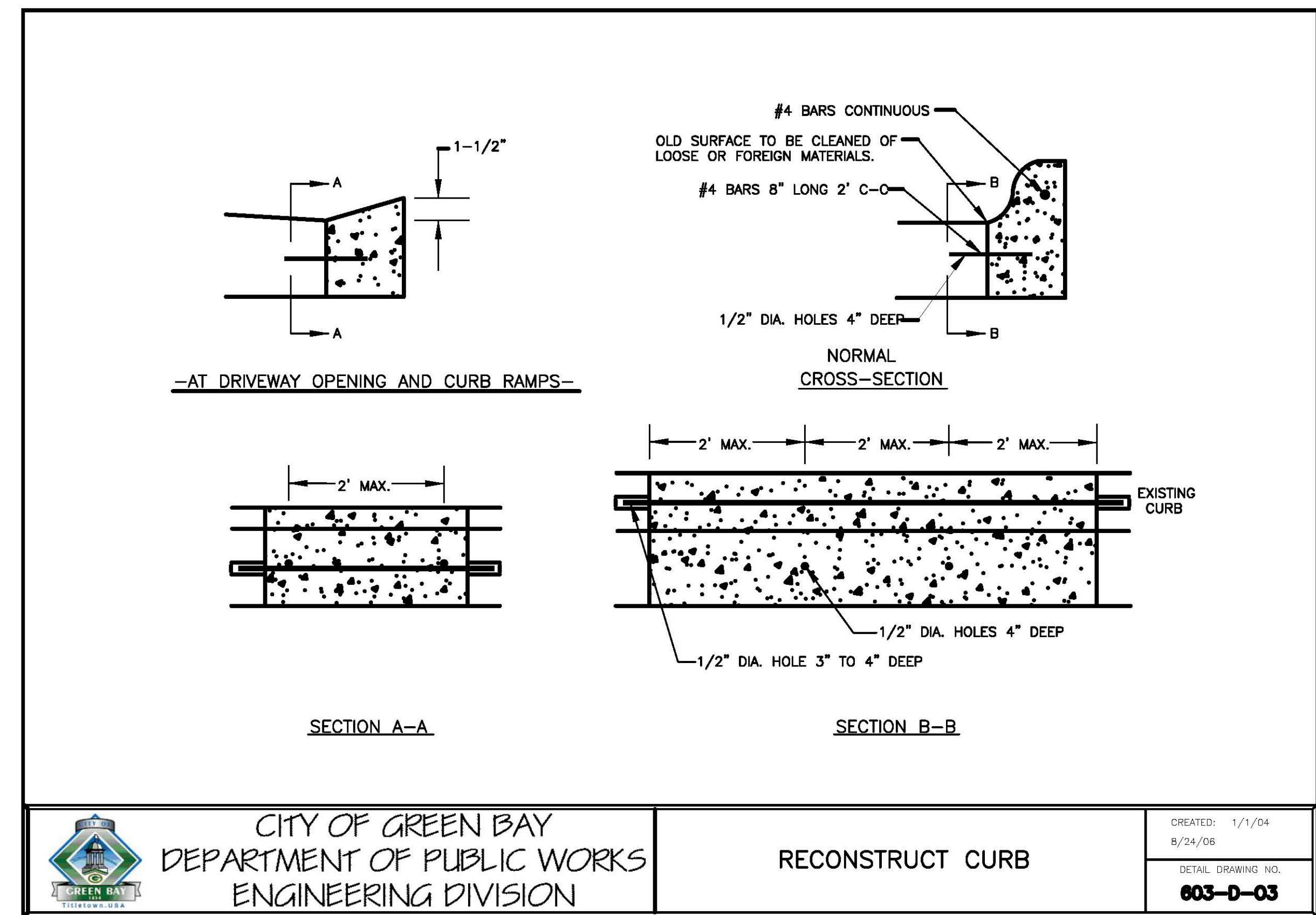
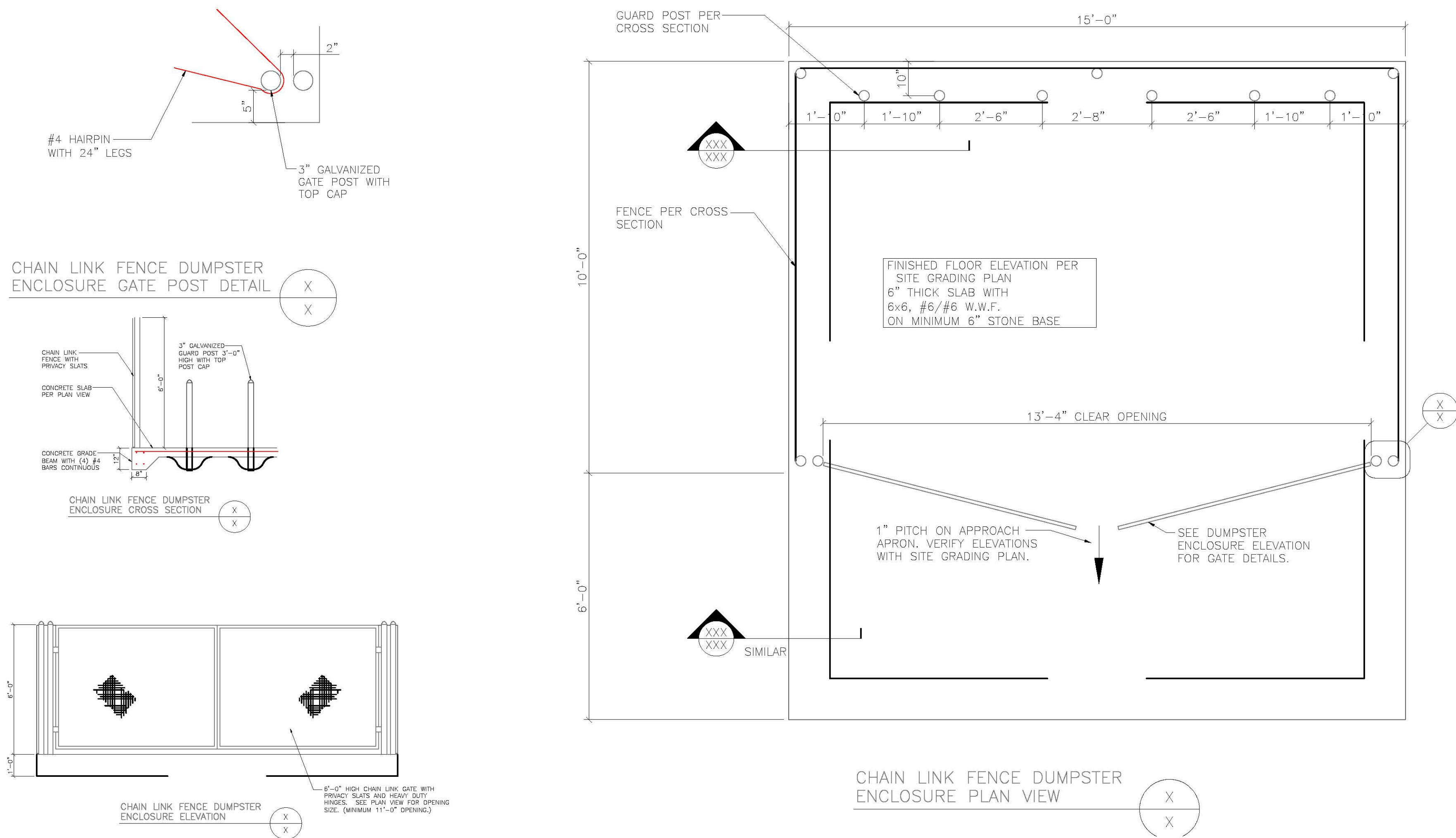
PROPOSED FAMILIA DENTAL FOR  
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MISCELLANEOUS DETAILS

DATE  
05/20/16  
FILE  
DETAILS  
JOB NO.  
5642002

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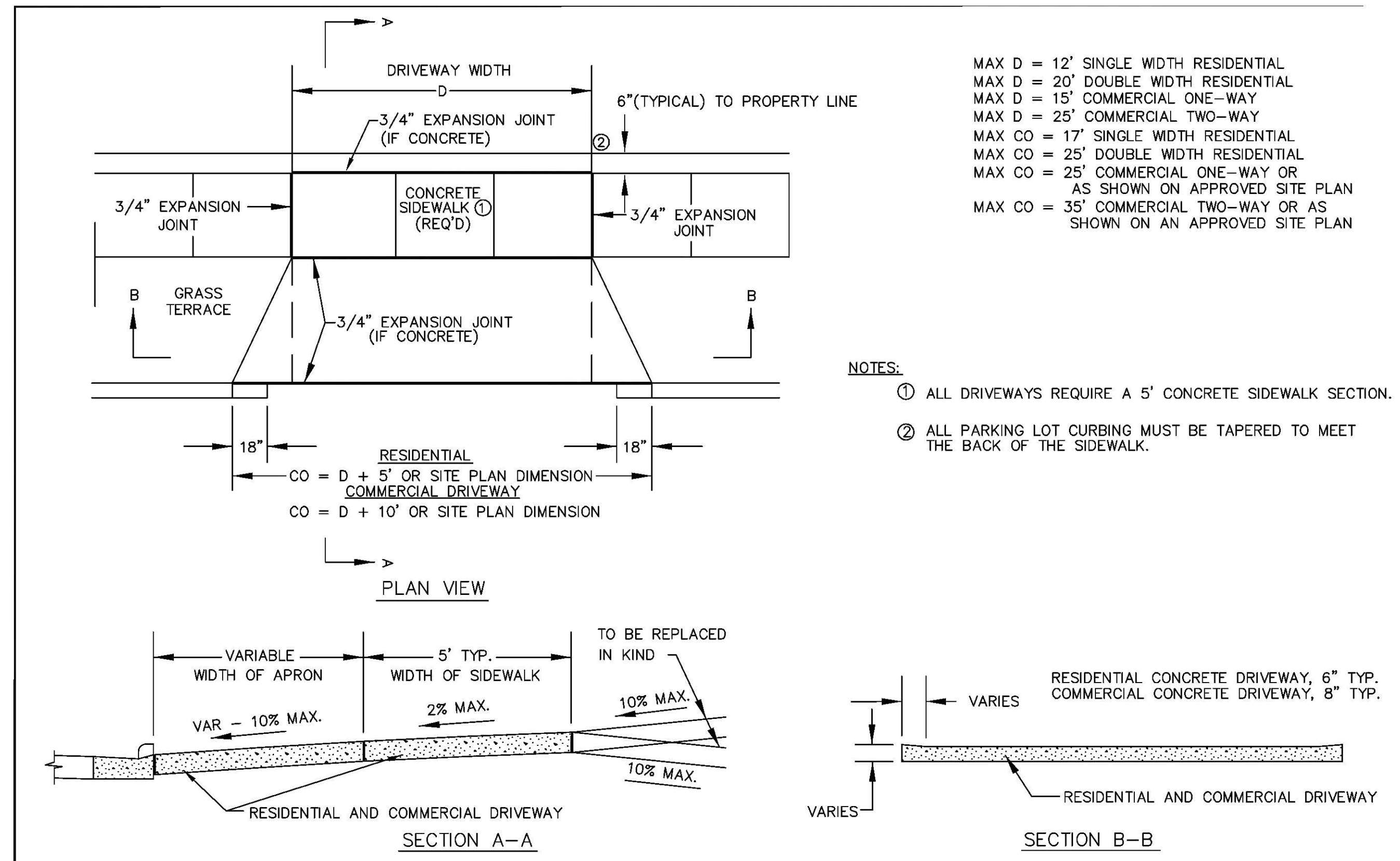
SHEET NO.  
**C-6**



CITY OF GREEN BAY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

**RECONSTRUCT CURB**

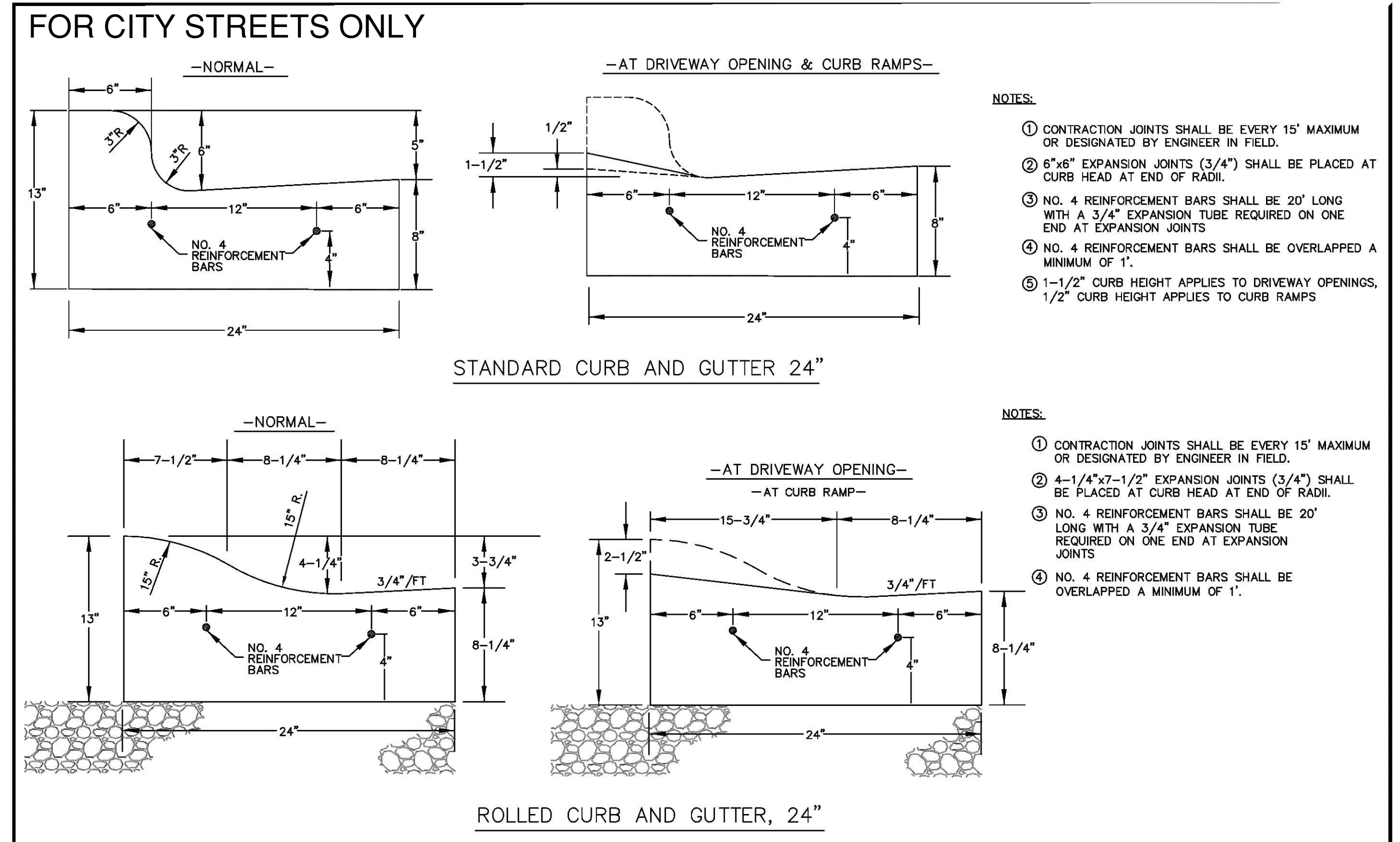
CREATED: 1/1/04  
8/24/08  
DETAIL DRAWING NO.  
**603-D-03**



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**



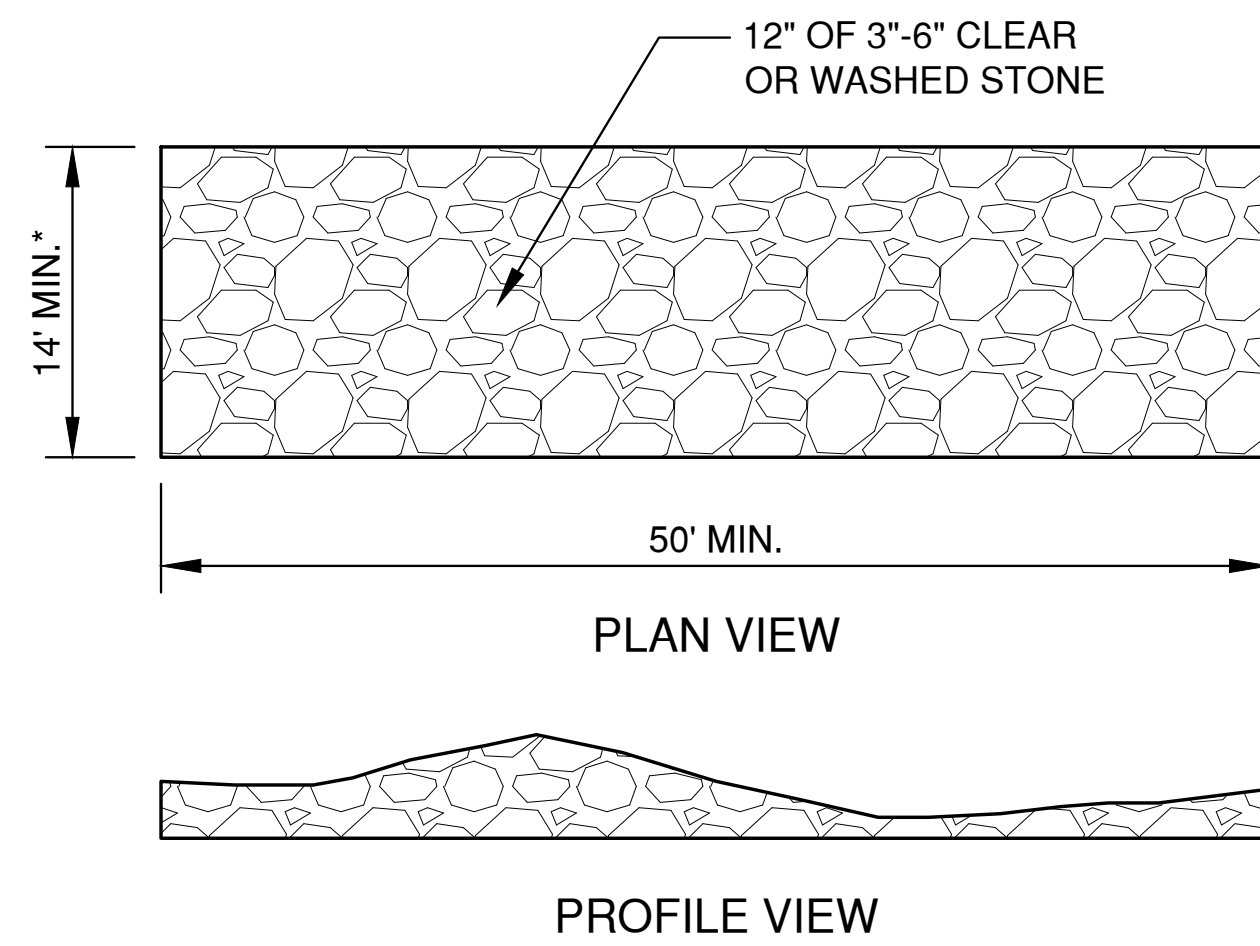
CITY OF GREEN BAY  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

**CURB AND GUTTER SECTIONS**

CREATED: 11/08/04  
REVISED: 3/15/07  
DETAIL DRAWING NO.  
**603-D-01**

FILE: P:\3003\663\6630207\663\DETAILS.dwg  
PLOT DATE: MAY 25, 2016 9:30:00 AM  
LAYOUT: DETAILS 3

|     |         |         |                      |     |      |         |          |                 |  |                       |                    |  |                         |
|-----|---------|---------|----------------------|-----|------|---------|----------|-----------------|--|-----------------------|--------------------|--|-------------------------|
| NO. | DATE    | APPROV. | REVISION             | NO. | DATE | APPROV. | REVISION | DRAWN<br>BLT    | PROPOSED FAMILIA DENTAL FOR<br>GB REAL ESTATE INVESTMENTS, LLC<br>CITY OF GREEN BAY<br>BROWN COUNTY, WISCONSIN | MISCELLANEOUS DETAILS | DATE<br>05/20/16   | <b>Robert E. Lee &amp; Associates, Inc.</b><br>ENGINEERING, SURVEYING, ENVIRONMENTAL SERVICES<br>1250 CENTENNIAL CENTRE BOULEVARD<br>HOBART, WI 54155<br>PHONE: (920) 662-9641<br>INTERNET: www.releeinc.com FAX: (920) 662-9141 | SHEET NO.<br><b>C-7</b> |
| 1   | 5-10-16 | JGS     | CITY SUBMITTAL       |     |      |         |          | CHECKED<br>JGS  |  |                       | FILE<br>DETAILS    |  |                         |
| 2   | 5-25-16 | JGS     | FINAL CITY SUBMITTAL |     |      |         |          | DESIGNED<br>BLT |  |                       | JOB NO.<br>5642002 |  |                         |



\*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.

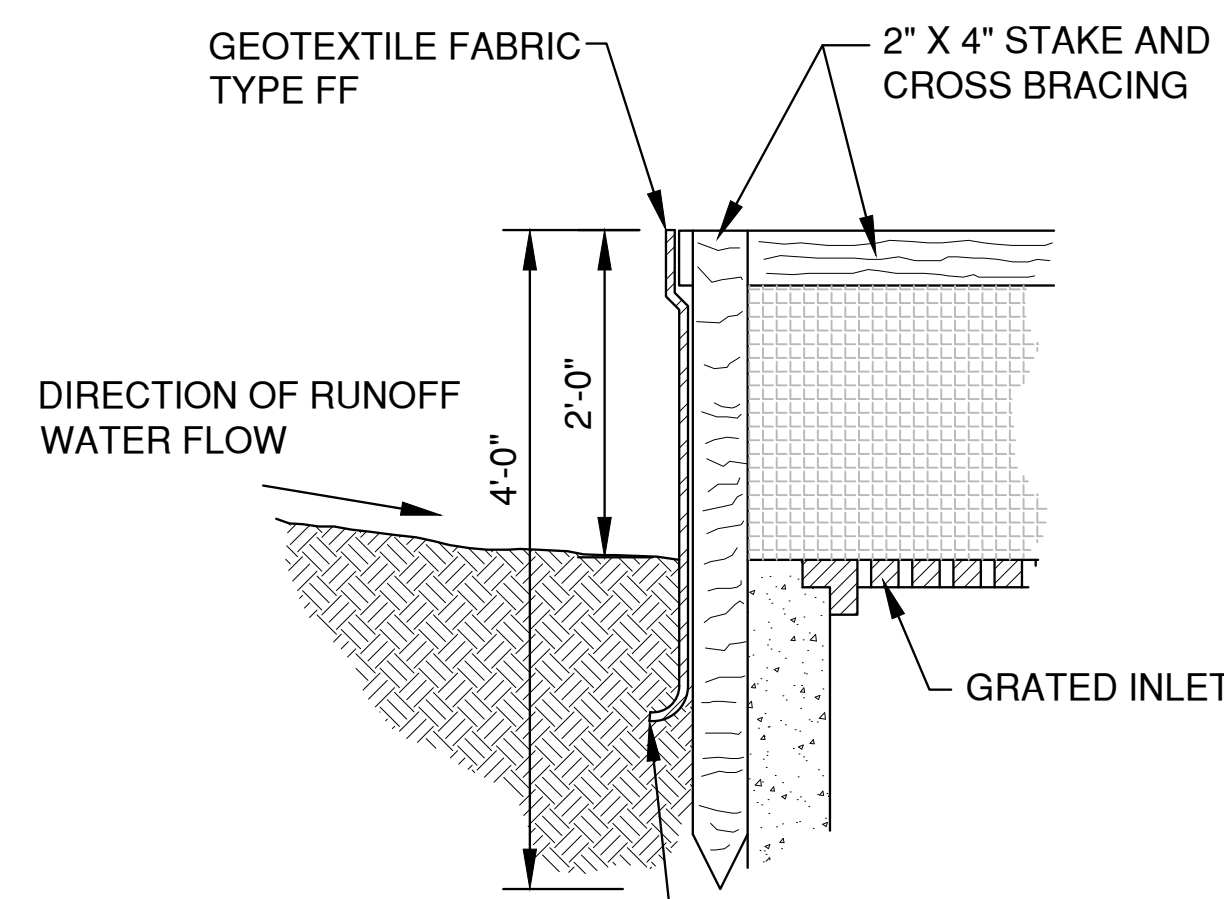
DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

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.

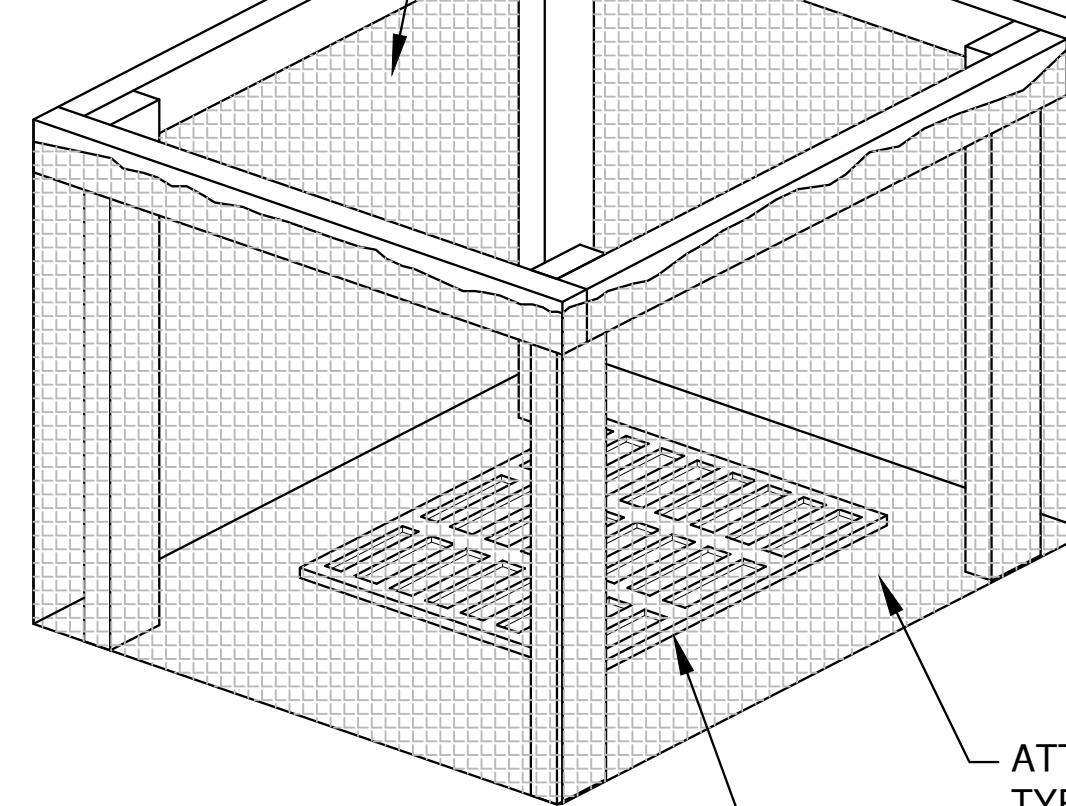
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

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.



BURIED FABRIC MIN. 6" DEPTH  
2" X 4" STAKE AND CROSS BRACING

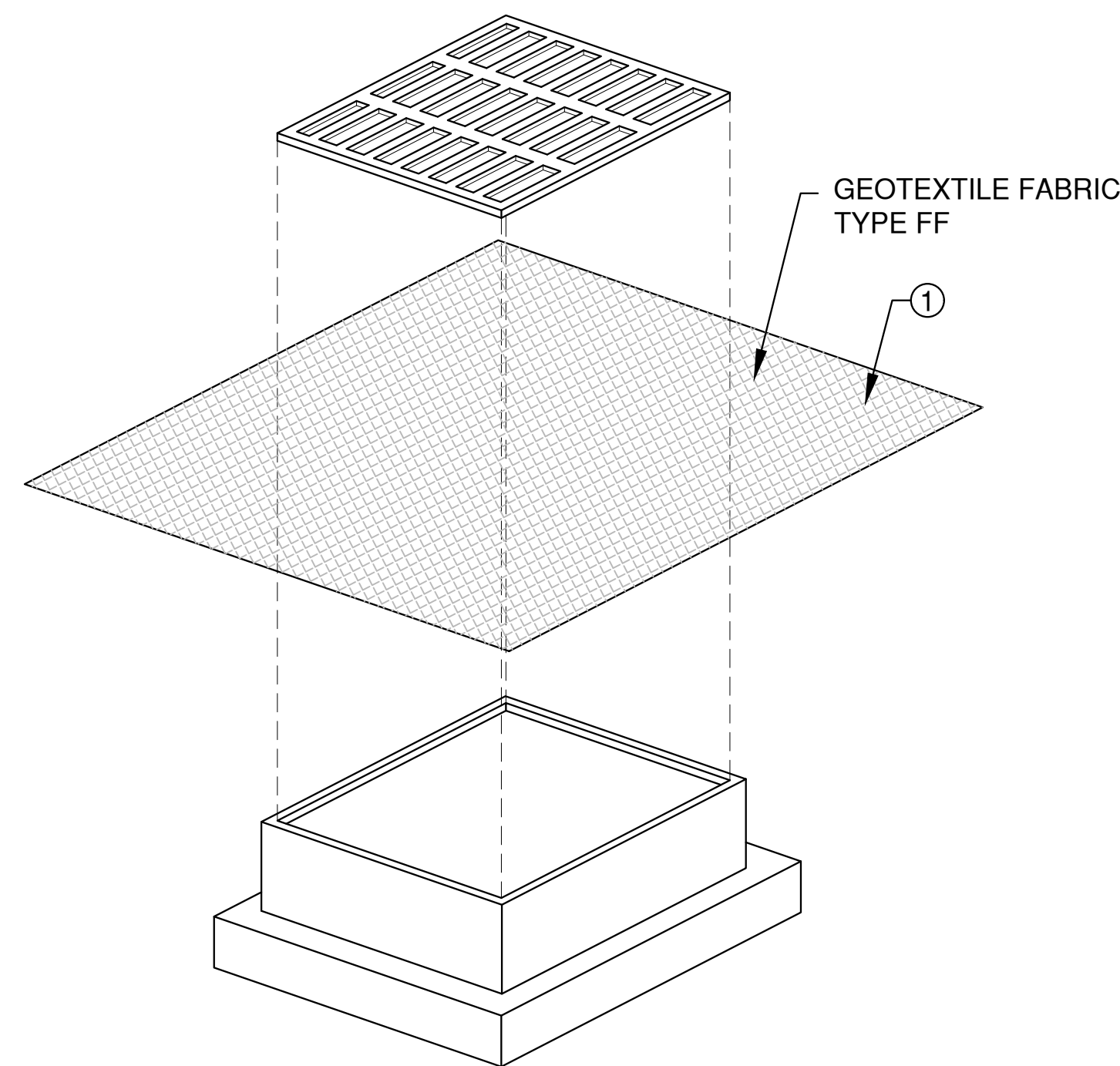
GEOTEXTILE FABRIC TYPE FF



ATTACH GEOTEXTILE FABRIC, TYPE FF TO THE STAKES AND CROSS BRACING.

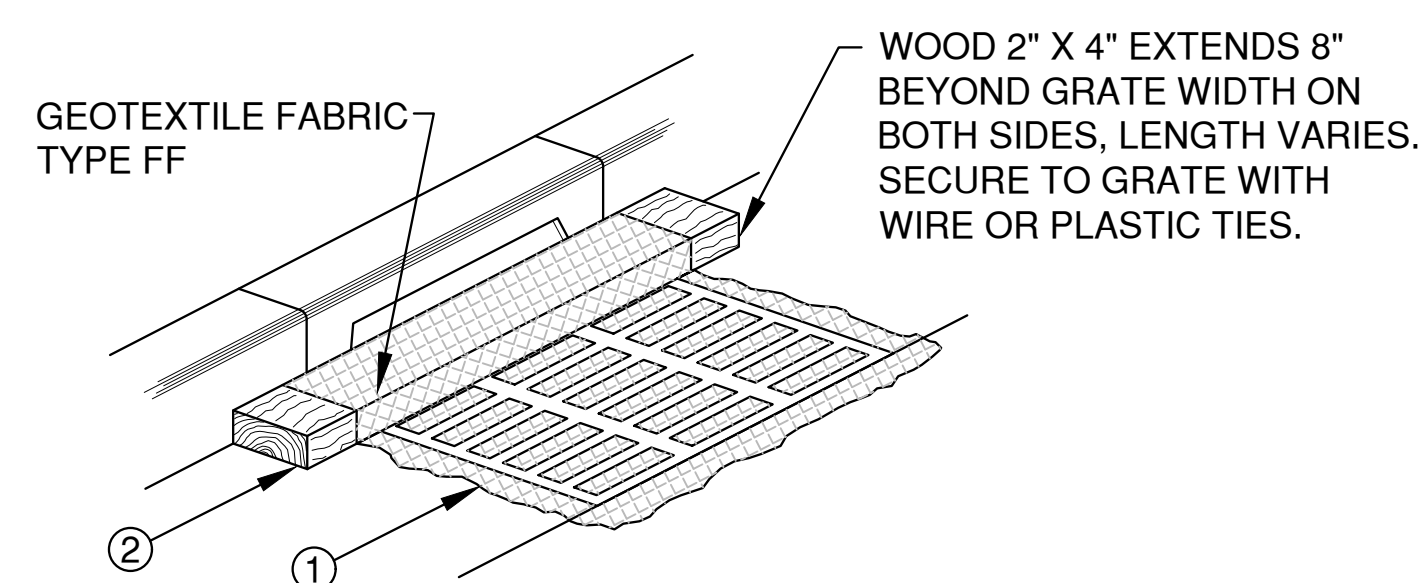
INLET WITH OR WITHOUT GRATE

**INLET PROTECTION, TYPE A**



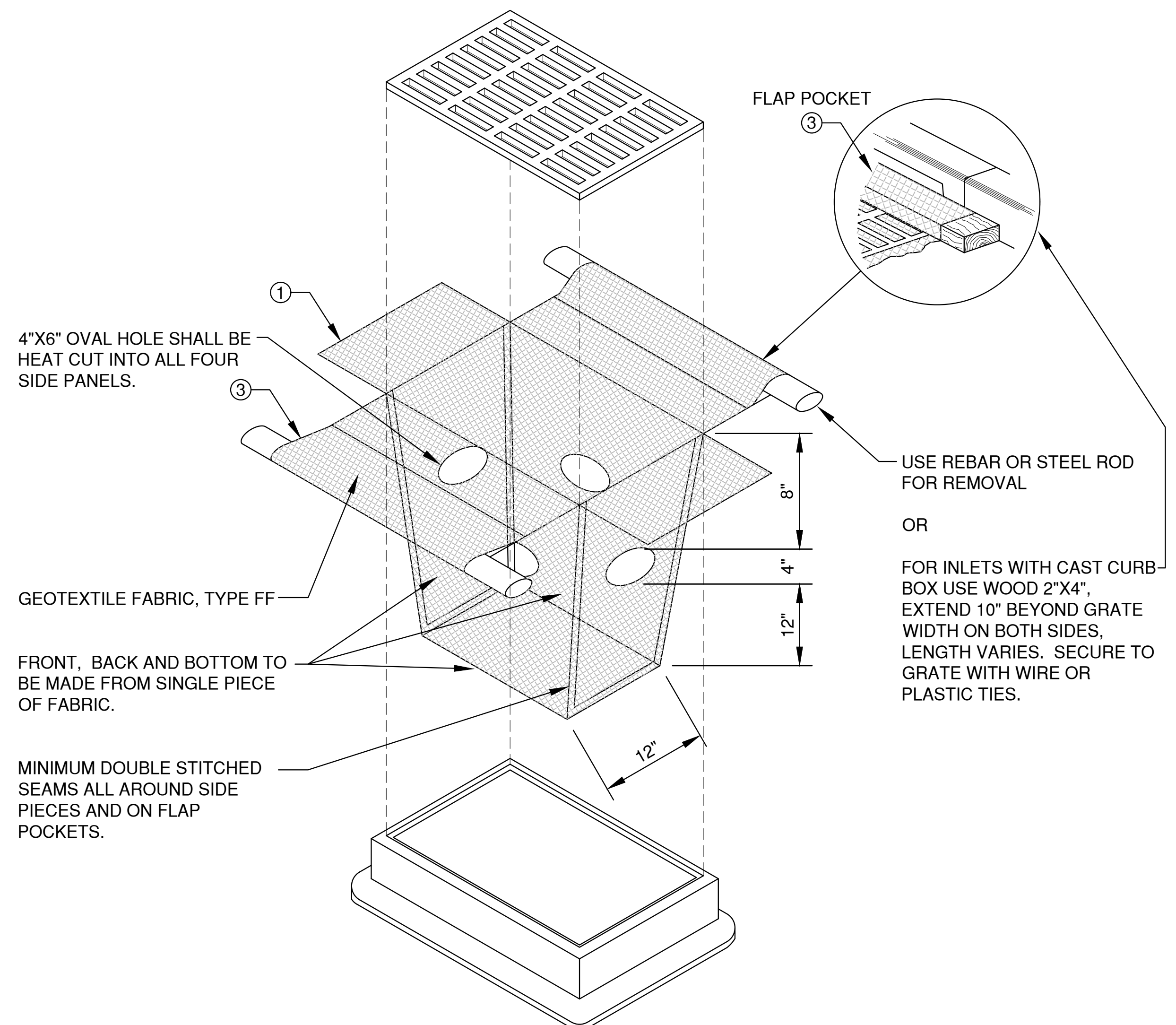
**INLET PROTECTION, TYPE B  
(WITHOUT CURB BOX)**

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



WOOD 2" X 4" EXTENDS 8" BEYOND GRATE WIDTH ON BOTH SIDES, LENGTH VARIES. SECURE TO GRATE WITH WIRE OR PLASTIC TIES.

**INLET PROTECTION, TYPE C  
(WITH CURB BOX)**



4"x6" OVAL HOLE SHALL BE HEAT CUT INTO ALL FOUR SIDE PANELS.

FRONT, BACK AND BOTTOM TO BE MADE FROM SINGLE PIECE OF FABRIC.

MINIMUM DOUBLE STITCHED SEAMS ALL AROUND SIDE PIECES AND ON FLAP POCKETS.

FLAP POCKET

USE REBAR OR STEEL ROD FOR REMOVAL

OR

FOR INLETS WITH CAST CURB BOX USE WOOD 2"x4", EXTEND 10" BEYOND GRATE WIDTH ON BOTH SIDES, LENGTH VARIES. SECURE TO GRATE WITH WIRE OR PLASTIC TIES.

**INLET PROTECTION, TYPE D**

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

LAYOUT: INLET PROTECTION: FILE: P:\3000\3641\4642020\464 EROSION CONTROL.dwg: PLOT DATE: May 25, 2016 9:30am

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

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

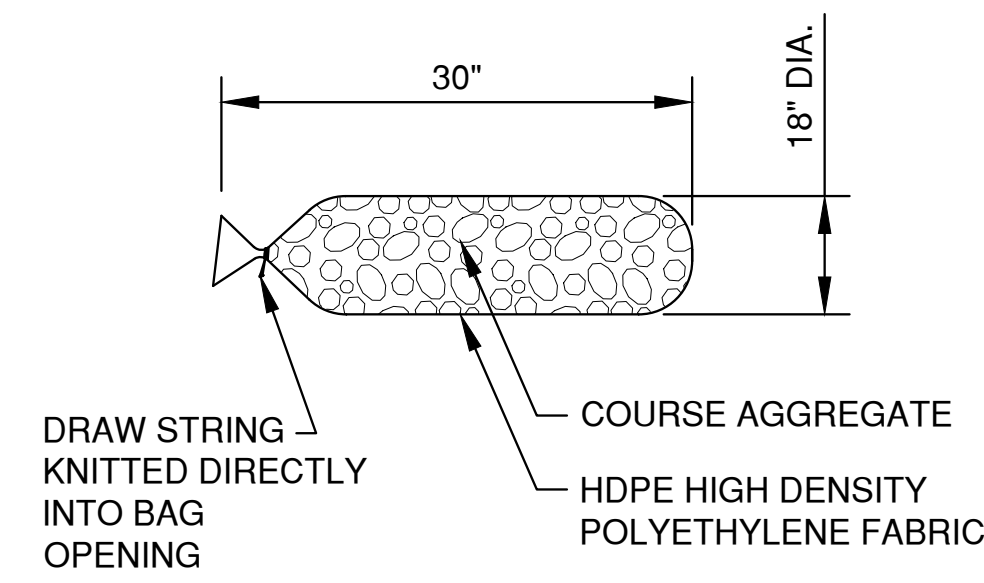
EROSION CONTROL  
INLET PROTECTION AND  
MISCELLANEOUS DETAILS

|         |                 |
|---------|-----------------|
| DATE    | 05/20/16        |
| FILE    | EROSION CONTROL |
| JOB NO. | 5642020         |

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

SHEET NO.  
**C-8**





FILTER BAG DETAIL

COURSE AGGREGATE INFORMATION

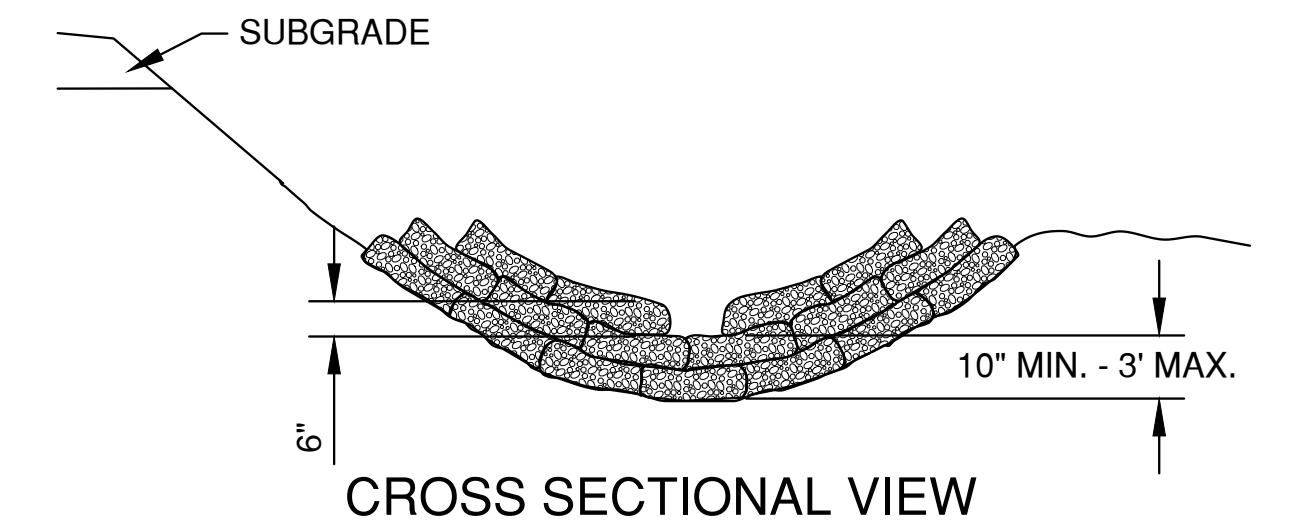
| SIEVE SIZE          | SIZE NO. AASHTO No. 67 (1) |
|---------------------|----------------------------|
| 2 INCH (50 mm)      | -                          |
| 1 1/2 INCH (37.5mm) | -                          |
| 1 INCH (25.0 mm)    | 100                        |
| 3/4 INCH (19.0mm)   | 90-100                     |
| 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

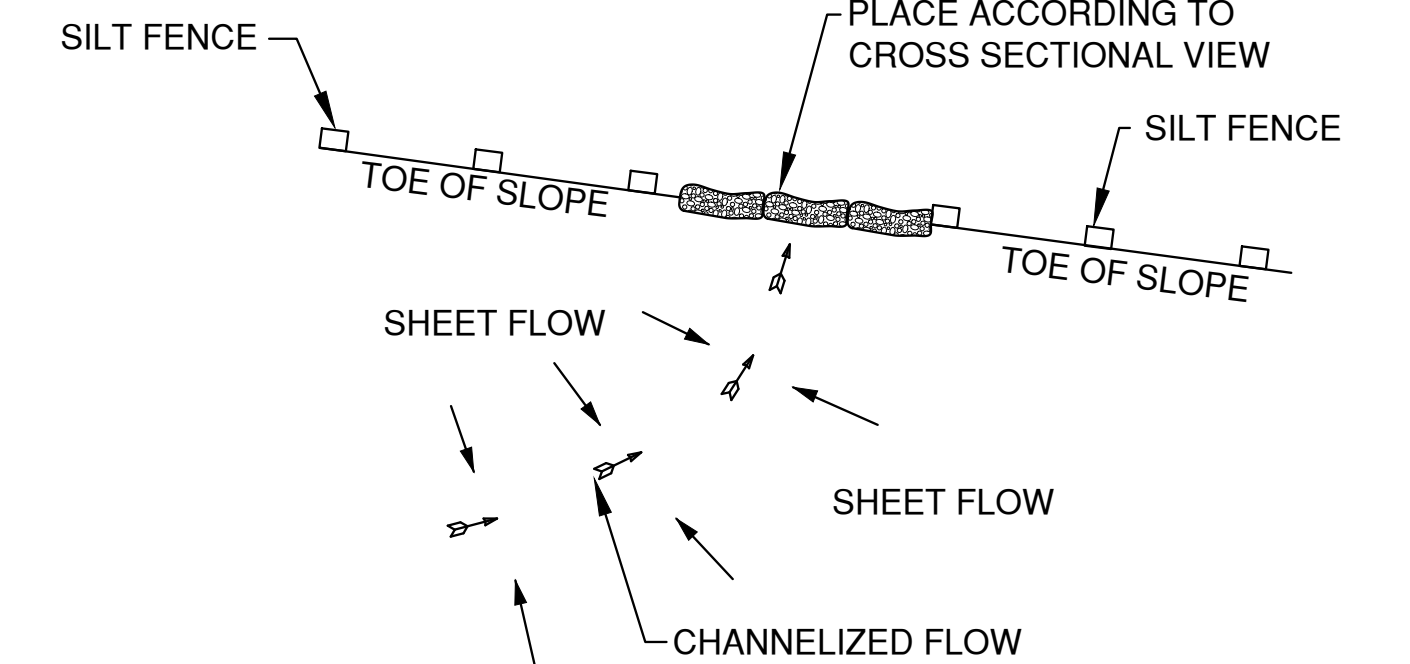
NOTES:

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.

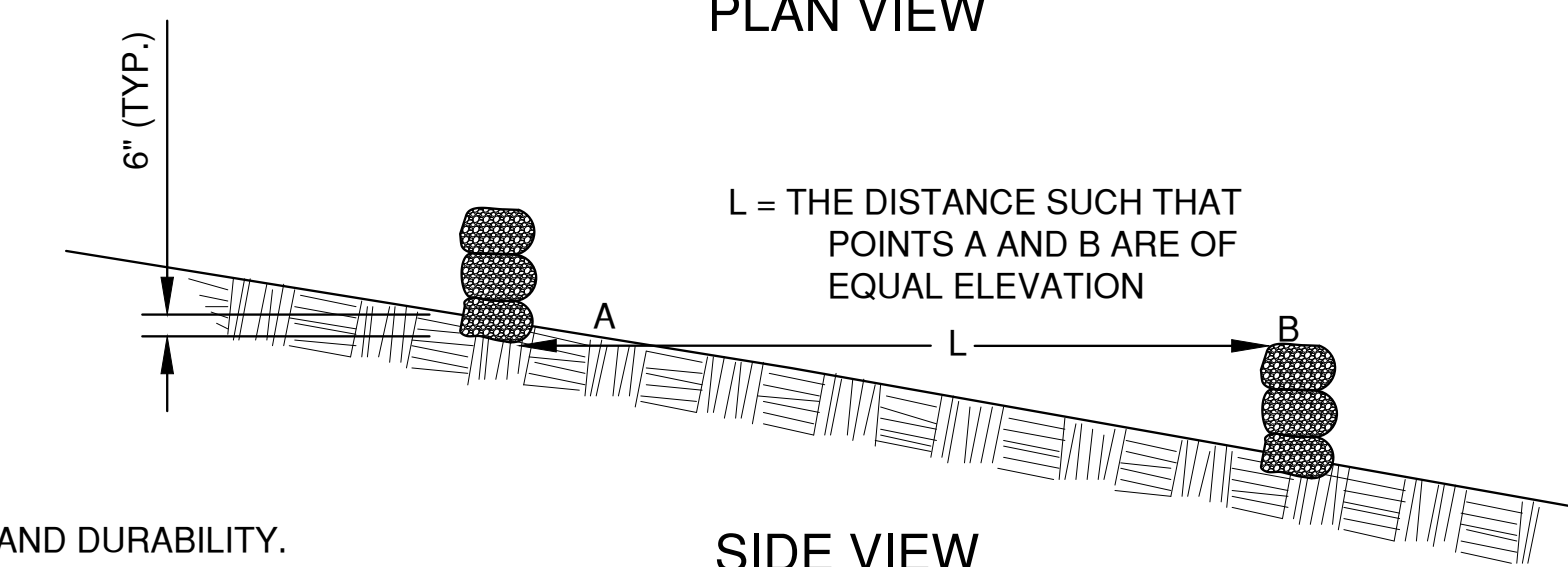
USE WELL GRADED COURSE AGGREGATE CONFORMING TO THE FOLLOWING GRADATION REQUIREMENTS



CROSS SECTIONAL VIEW



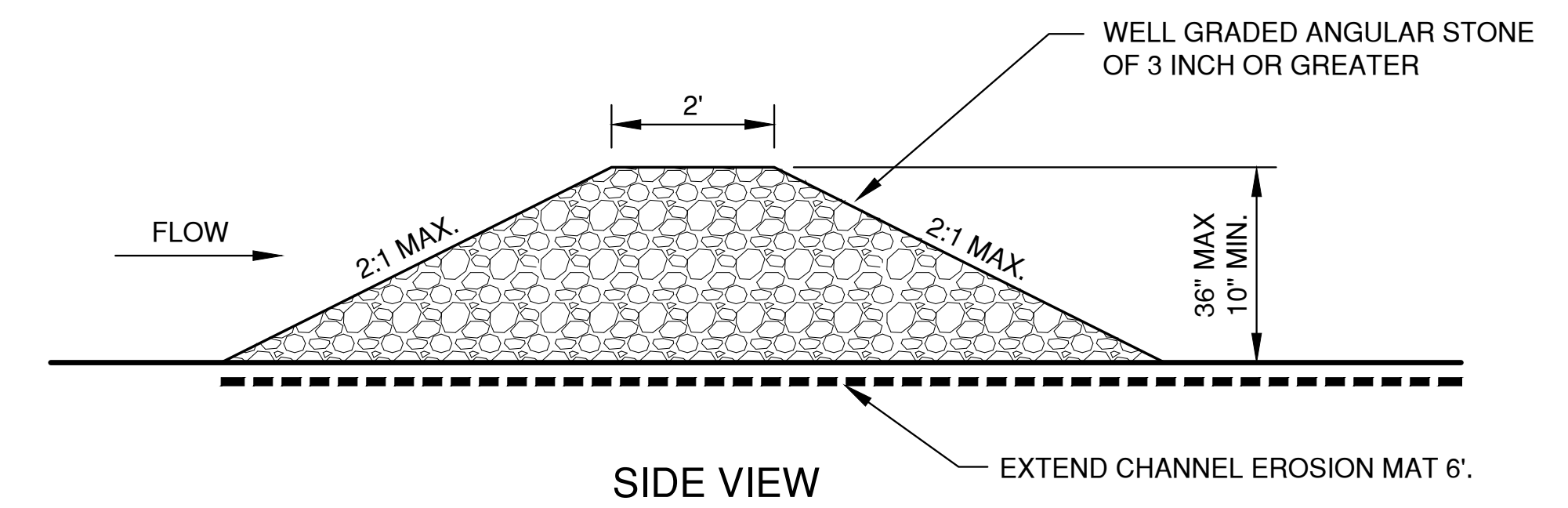
PLAN VIEW



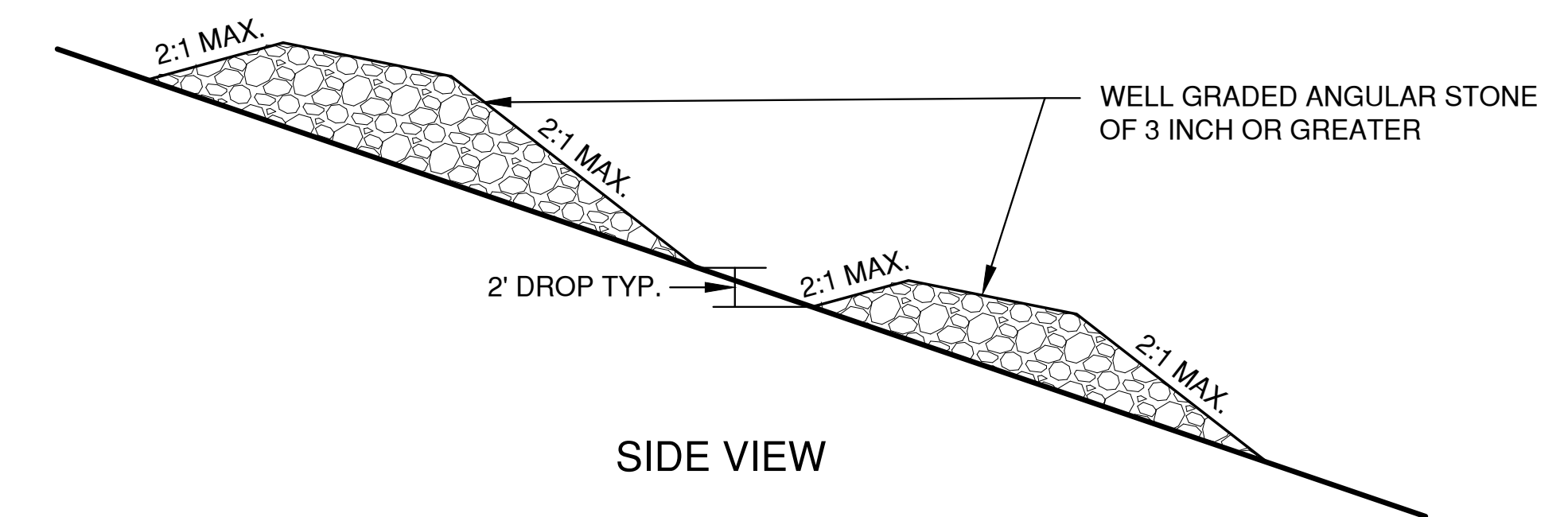
SIDE VIEW

DITCH CHECK DETAIL

ROCK FILLED EROSION CONTROL BAGS  
TYPE B



SIDE VIEW



SIDE VIEW

TEMPORARY DITCH CHECK USING STONE  
TYPE C

LAYOUT: DITCH CHECKS

| NO. | DATE    | APPROV. | REVISION             | NO. | DATE | APPROV. | REVISION | DRAWN |
|-----|---------|---------|----------------------|-----|------|---------|----------|-------|
| 1   | 5-10-16 | JGS     | CITY SUBMITTAL       |     |      |         |          | BLT   |
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PROPOSED FAMILIA DENTAL FOR  
 GB REAL ESTATE INVESTMENTS, LLC  
 CITY OF GREEN BAY  
 BROWN COUNTY, WISCONSIN

EROSION CONTROL  
 DITCH CHECK DETAILS

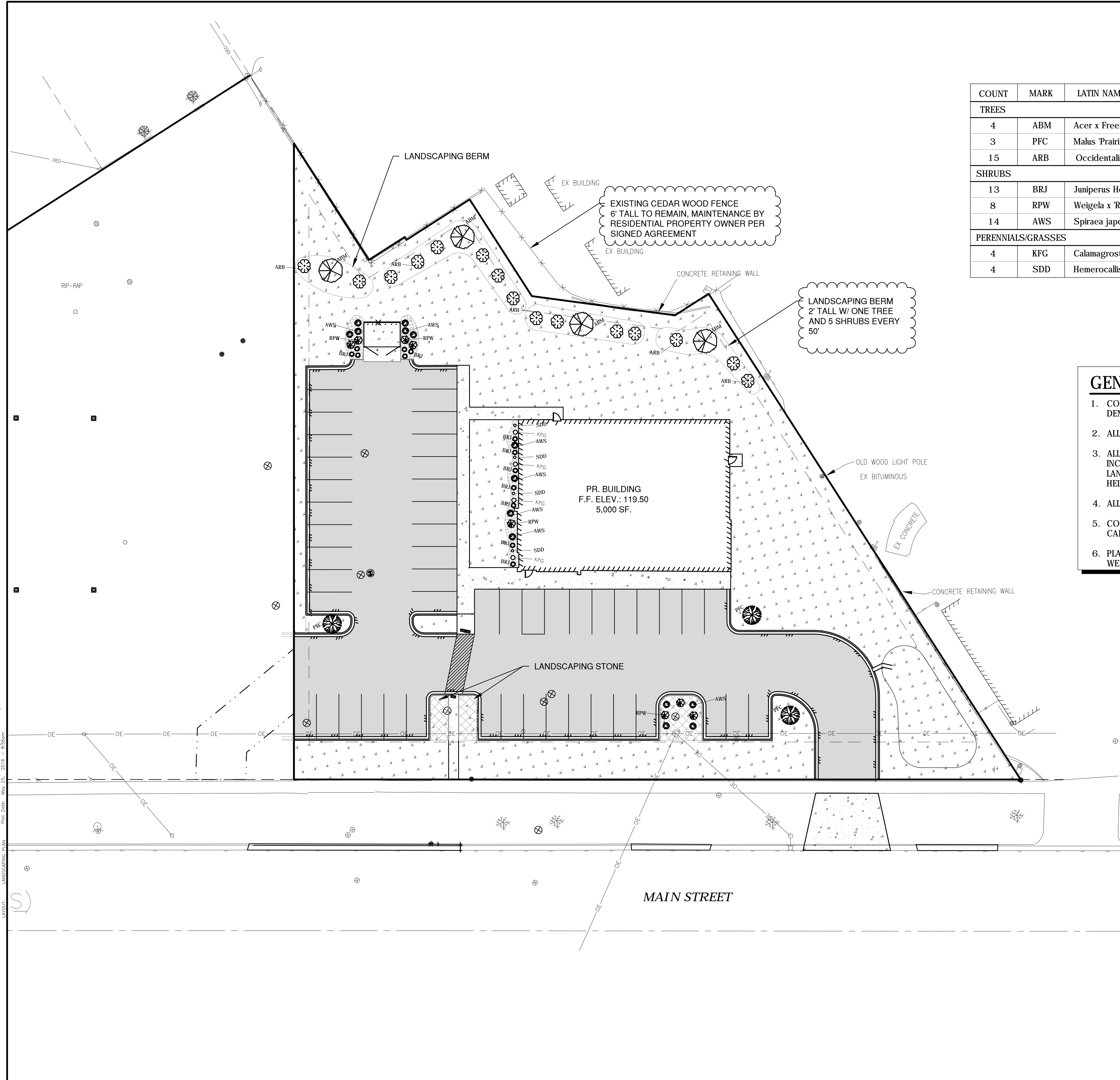
|         |                 |
|---------|-----------------|
| DATE    | 05/20/16        |
| FILE    | EROSION CONTROL |
| JOB NO. | 5642002         |

**Robert E. Lee & Associates, Inc.**  
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 HOBART, WI 54155  
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PHONE: (920) 662-9641  
 FAX: (920) 662-9141

SHEET NO.  
**C-9**



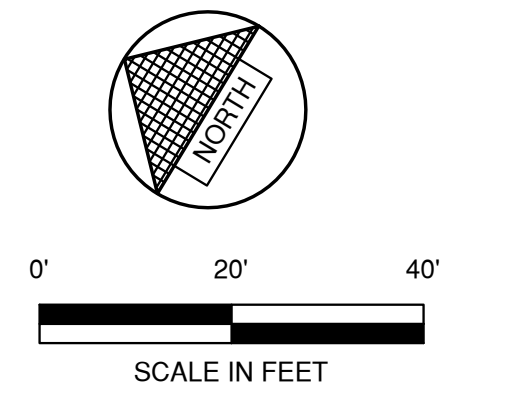


| COUNT                     | MARK | LATIN NAME                               | COMMON NAME              | SIZE       | ROOT | MATURE SIZE |
|---------------------------|------|--|--------------------------|------------|------|-------------|
| <b>TREES</b>              |      |  |                          |            |      |             |
| 4                         | ABM  | Acer x Freemail                          | Autumn Blaze Maple       | 2" CAL     | BB   | 2" CAL      |
| 3                         | PFC  | Malus 'Prairifire'                       | Prairifire Crab Tree     | 2" CAL. 7' | BB   | 2" CAL. 7'  |
| 15                        | ARB  | Occidentalis                             | Technito Arborvitae      | 4-5' Wide  |      | 8-10'       |
| <b>SHRUBS</b>             |      |  |                          |            |      |             |
| 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'       |
| <b>PERENNIALS/GRASSES</b> |      |  |                          |            |      |             |
| 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**

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION / CONSTRUCTION.
- ALL PLANTINGS SHALL MEET THE NURSERYMEN'S ASSOCIATION STANDARDS
- 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.
- ALL TREES TO BE STAKED WITH A MINIMUM OF 3 STAKES.
- COORDINATE LANDSCAPE WORK WITH ALL TRADES (EXAMPLE: GAS, ELECTRIC, CABLE AND TELEPHONE).
- PLANTING BEDS SHALL BE MULCHED WITH SHREDDED HARDWOOD MULCH WITH WEED FABRIC BELOW AND EDGING WHERE NEEDED.

File: R:\3000\5642\2016\44\56420020-44.dwg  
 Plot Date: May 25, 2016 8:30am  
 LAYOUT: LANDSCAPING PLAN



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

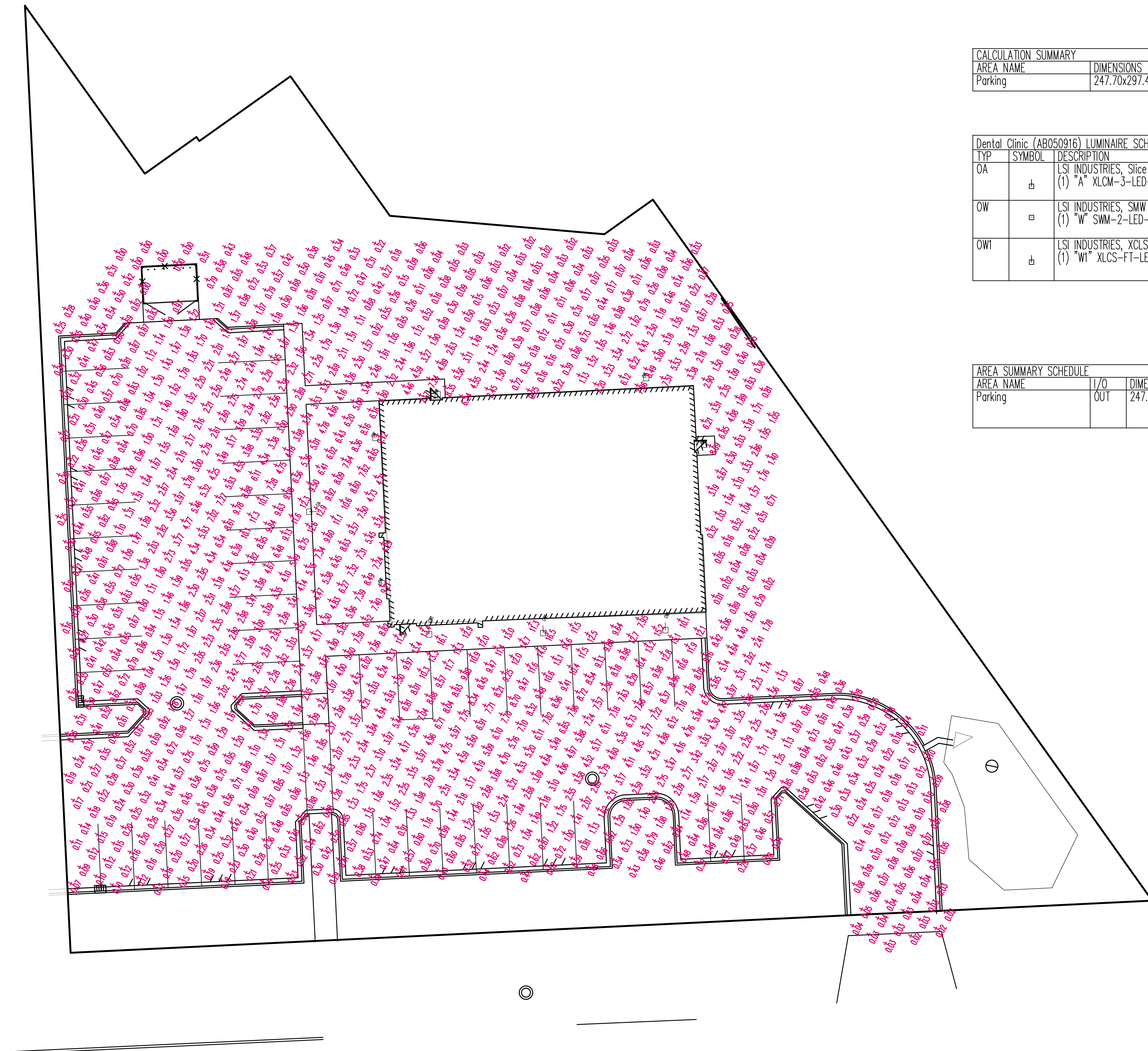
PROPOSED FAMILIA DENTAL FOR  
 GB REAL ESTATE INVESTMENTS, LLC.  
 CITY OF GREEN BAY  
 BROWN COUNTY, WISCONSIN

LANDSCAPING PLAN

|         |          |
|---------|----------|
| DATE    | 05/20/16 |
| FILE    | 5642002D |
| JOB NO. | 5642002  |

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 1250 CENTENNIAL CENTRE BOULEVARD HOBBART, WI 54155  
 920-662-9641 www.releinc.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<br>(1) "A" XLCM-3-LED-HO-NW | (1)  | 27916  | 25" SSS<br>3' Conc. Pour | 1.00 1  |
| OW  | □      | LSI INDUSTRIES, SMW Wall<br>(1) "W" SWM-2-LED-CW-UE        | (1)  | 4145   | LSI                      | 1.00 5  |
| OW1   | ⬇      | LSI INDUSTRIES, XCLS Wall<br>(1) "W1" XCLS-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)<br><OW > (5)<br><OW1 > (3) | 0.02          | 1   |

LIGHTING PLAN BY:

D □ □ □ □ □ □ □ □  
 Pr □ □ □ □ □ □ □ □  
 Visu □ □ □ □ □ □ □ □ Lig □ □ □ □ □ □ □ □  
 □ □ 20-4 □ □ 20 □ □ □ □  
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FILE: P:\3000\5642\56420201.dwg DATE: 05/20/16  
 PLOT DATE: May 25, 2016 8:37:09am  
 LAYOUT: LIGHTING PLAN  
 LAYOUT:

## **Appendix B**

Boring Logs

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

|   |                 |   |   |   |  |
|---|-----------------|---|---|---|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                 | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-10</b>                          |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                 | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b>          |  |
| Drilling Method<br><b>geoprobe</b>  |                 |   |   |   |  |
| WI Unique Well No.  | DNR Well ID No. | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b> | Surface Elevation<br><b>Feet MSL</b>                  | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                 |   | Local Grid Location                         |   |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                 |   | Lat _____"                                  | <input type="checkbox"/> N <input type="checkbox"/> E |  |
|   |                 |   | Long _____"                                 | <input type="checkbox"/> S <input type="checkbox"/> W |  |

|             |                        |                         |   |
|-------------|------------------------|-------------------------|---|
| Facility ID | County<br><b>Brown</b> | County Code<br><b>5</b> | Civil Town/City/ or Village<br><b>Green Bay</b> |
|-------------|------------------------|-------------------------|---|

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                              | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |  |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|--|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |  |
| 1 CS                   | 48<br>40                     |             | 0.0-0.25'     | CONCRETE   |         |             |              |         |                      |                  |              |                  |       |               |  |
|                        |                              |             | 0.25-1.25'    | CLAYEY SAND, red, fined grained sand, cohesive, low plasticity, dry, med. dense (FILL, SC) | SC      |             |              |         |                      |                  |              |                  |       |               |  |
|                        |                              |             | 1.25-2.0'     | As above. Color grades to dark brown / black.  | SC      |             |              |         |                      |                  |              |                  |       |               |  |
|                        |                              |             | 2.0-2.5'      | SILTY CLAY, red, cohesive, high plasticity, stiff, dry (FILL, CH)                          | CH      |             |              | 0.0     |                      |                  |              |                  |       |               |  |
|                        |                              |             | 2.5-3.0'      | SILTY SAND, med. grained, red, dry, loose (FILL, SM)                                       | SM      |             |              |         |                      |                  |              |                  |       |               |  |
|                        |                              |             | 3.0-3.5'      | SILTY CLAY, red, cohesive, high plasticity, stiff, dry (FILL, CH)                          | CH      |             |              | 0.0     |                      |                  |              |                  |       |               |  |
|                        |                              |             | 3.5-4.0'      | SILTY SAND, med. grained, red, dry, loose (FILL, SM)                                       | SM      |             |              |         |                      |                  |              |                  |       |               |  |
| 2 CS                   | 48<br>37                     |             | 4.0-7.0'      | CLAYEY SILT w/ SAND, fine grained, brown, non-cohesive, low plasticity, wet (TILL, ML)     | ML      |             |              |         |                      |                  |              |                  |       |               |  |
|                        |                              |             | 7.0-8.0'      | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-11</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>   | Surface Elevation<br><b>Feet MSL</b>         | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____"<br>Long _____"   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | 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      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |      |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>34                     |             | 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     |                      |                  |              |                  |       |               |
|                        |                              |             | 2.75-4.0'     | As above. Color grades to dark brown.   | ML   |             |              | 0.0     |                      |                  |              |                  |       |               |
| 2 CS                   | 48<br>32                     |             | 4.0-6.0'      | SILT, reddish brown, non-cohesive, non-plastic, loose, moist (TILL, ML)                   | ML   |             | ▼            | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 6.0-8.0'      | As above. Color grades to brown. Wet at 6'  | 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** Tel: 920-892-2444  
1237 Pilgrim Rd. Plymouth, WI 53073 Fax: 920-892-2620

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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-12</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>   | Surface Elevation<br><b>Feet MSL</b>         | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____ ' _____ " _____"<br>Long _____ ' _____ " _____"   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit  | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1<br>CS                | 48<br>34                     |             | 0.0-0.25'     | CONCRETE   |         |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.25-0.75'    | POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)   | SP      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.75-1.25'    | SILT, dark brown, non-cohesive, non-plastic, dry (FILL, ML)  | ML      |             |              |         |                      |                  |              |                  |       |               |
| 2<br>CS                | 48<br>39                     |             | 1.25-3.5'     | POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)   | SP      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 3.5-4.25'     | SANDY SILT, fined grained sand, dark brown / brown, non-cohesive, non-plastic, dense, moist (TILL, ML) | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 4.25-6.0'     | As above. Color grades to reddish brown. Wet at 5'   | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 6.0-8.0'      | As above. Color grades to 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|



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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-13</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>   | Surface Elevation<br><b>Feet MSL</b>         | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____ ' _____ " _____"<br>Long _____ ' _____ " _____"   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit  | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1<br>CS                | 48<br>40                     |             | 0.0-0.25'     | CONCRETE   |         |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.25-0.6'     | POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)   | SP      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.6-1.0'      | SILT, dark brown / black, non-cohesive, non-plastic, dry (FILL, ML)                                    | ML      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 1.0-2.25'     | POORLY GRADED SAND, medium grained, reddish brown (FILL, SP)   | SP      |             |              |         |                      | 0.0              |              |                  |       |               |
|                        |                              |             | 2.25-3.5'     | SANDY SILT, fined grained sand, dark brown / brown, non-cohesive, non-plastic, dense, moist (TILL, ML) | ML      |             |              |         |                      |                  |              |                  |       |               |
| 2<br>CS                | 48<br>39                     |             | 3.5-5.0'      | POORLY GRADED SAND, fine to medium grained, reddish brown (FILL, SP)                                   | SP      |             |              |         | 0.0                  |                  |              |                  |       |               |
|                        |                              |             | 5.0-6.0'      | SILT, brownish yellow, non-cohesive, non-plastic, loose, wet (TILL, ML)                                | ML      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 6.0-8.0'      | As above. Color grades to brown. Med. stiff.   | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                        |   |   |   |  |
|---|------------------------|---|---|---|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-14</b>                          |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b>          |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |   |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>     | Surface Elevation<br><b>Feet MSL</b>                  | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location                             |   |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____"                                      | <input type="checkbox"/> N <input type="checkbox"/> E |  |
|   |                        |   | Long _____"                                     | <input type="checkbox"/> S <input type="checkbox"/> W |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b> |   |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit   | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1<br>CS                | 48<br>40                     |             | 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     |                      |                  |              |                  |       |               |
|                        |                              |             | 2.25-4.0'     | SILTY CLAY, red, cohesive, high plasticity, stiff, dry, fine grained sand seam at 3.0' (FILL, CH)     | CH      |             |              | 0.0     |                      |                  |              |                  |       |               |
| 2<br>CS                | 48<br>37                     |             | 4.0-6.0'      | SILT, light brown, non-cohesive, non-platic, loose, wet at 5.0' (TILL, ML)                            | ML      |             | ▼            |         |                      |                  |              |                  |       |               |
|                        |                              |             | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-15</b>                               |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b>               |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>     | Surface Elevation<br><b>Feet MSL</b>                       | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location                             |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____"                                      | <input type="checkbox"/> N <input type="checkbox"/> E      |  |
|   |                        |   | Long _____"                                     | Feet <input type="checkbox"/> S <input type="checkbox"/> W |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b> |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                                  | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1<br>CS                | 48<br>38                     |             | 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     |                      |                  |              |                  |       |               |
| 2<br>CS                | 48<br>39                     |             | 3.0-4.25'     | As above. Color grades to dark brown.  | ML      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 4.25-6.5'     | As above. Color grades to reddish light brown, water at 6.5'                                   | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 6.5-8.0'      | As above. Color grades to 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-16</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br>Feet MSL  | Surface Elevation<br>Feet MSL                | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____ ' _____ " _____ "<br>Long _____ ' _____ " _____ "   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit   | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>42                     |             | 0.5           | 0.0-2.0' CLAYEY SILT w/ GRAVEL (topsoil), 10% 1/4" subrounded gravel, black, non-cohesive, non-plastic, roots, dense (FILL, OL) | OL      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 2.0           | 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<br>48                     |             | 4.0           |   | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 6.5           | 6.5-8.0' 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-17</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br>Feet MSL  | Surface Elevation<br>Feet MSL                | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____ ' _____ " _____ "<br>Long _____ ' _____ " _____ "   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                                       | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1<br>CS                | 48<br>38                     |             | 0.0-0.25'     | CLAYEY SILT (topsoil), black, roots (FILL, OL)  | OL      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.25-0.5'     | SILTY GRAVEL, grey, 3/4" angular gravel, dry (FILL, GM)   | GM      |             |              |         |                      |                  |              |                  |       |               |
| 2<br>CS                | 48<br>44                     |             | 0.5-2.0'      | SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, dry (FILL, ML)         | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 2.0-2.25'     | ASPHALT   |         |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 2.25-8.0'     | SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, wet at 4.0' (FILL, ML) | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                 |   |   |  |  |
|---|-----------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                 | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-18</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                 | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                 |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No. | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>   | Surface Elevation<br><b>Feet MSL</b>         | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                 |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                 |   | Lat _____ ' _____ " _____ "<br>Long _____ ' _____ " _____ "   |  |  |

|             |                        |                         |   |
|-------------|------------------------|-------------------------|---|
| Facility ID | County<br><b>Brown</b> | County Code<br><b>5</b> | Civil Town/City/ or Village<br><b>Green Bay</b> |
|-------------|------------------------|-------------------------|---|

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                           | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>28                     |             | 0.5           | 0.0-4.25' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)                      | GM      |             |              | 0.0     |                      |                  |              |                  |       |               |
| 2 CS                   | 48<br>40                     |             | 4.5           | 4.25-6.5' SILT, brown, non-cohesive, non-plastic, dense, moist, wet at 4.75' (TILL, ML) | ML      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 6.5           | 6.5-8.0' SILTY CLAY, brown, cohesive, high plasticity, tight, moist (TILL, CH)          | CH      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |  | License/Permit/Monitoring Number<br><b>02-05-217276</b>   |  | Boring Number<br><b>B-19</b>  |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b> |  | Date Drilling Started<br><b>12/11/2012</b>  |  | Date Drilling Completed<br><b>12/11/2012</b>  |  |
| Drilling Method<br><b>geoprobe</b>  |  | WI Unique Well No.  |  | DNR Well ID No.   |  |
| Common Well Name  |  | Final Static Water Level<br><b>Feet MSL</b>   |  | Surface Elevation<br><b>Feet MSL</b>  |  |
| Borehole Diameter<br><b>2.0 inches</b>  |  | Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |  | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |  | Lat _____ "   |  | Long _____ "  |  |
| Facility ID   |  | County<br><b>Brown</b>  |  | County Code<br><b>5</b>   |  |
|   |  |   |  | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                           | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|---|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |   |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>34                     |             | 0.5           | 0.0-4.25' SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)                      | GM      |             |              | 0.0     |                      |                  |              |                  |       |               |
| 2 CS                   | 48<br>48                     |             | 4.5           | 4.25-6.5' SILT, brown, non-cohesive, non-plastic, dense, moist, wet at 4.75' (TILL, ML) | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 6.5           | 6.5-8.0' SILTY CLAY, brown, moist, cohesive, high plasticity, very stiff, (TILL, CH)    | CH      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

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

|   |                 |   |   |   |  |
|---|-----------------|---|---|---|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                 | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-20</b>                          |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                 | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b>          |  |
| Drilling Method<br><b>geoprobe</b>  |                 |   |   |   |  |
| WI Unique Well No.  | DNR Well ID No. | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b> | Surface Elevation<br><b>Feet MSL</b>                  | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                 |   | Local Grid Location                         |   |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                 |   | Lat _____"                                  | <input type="checkbox"/> N <input type="checkbox"/> E |  |
|   |                 |   | Long _____"                                 | <input type="checkbox"/> S <input type="checkbox"/> W |  |
| Facility ID   |                 | County<br><b>Brown</b>                                  | County Code<br><b>5</b>                     | Civil Town/City/ or Village<br><b>Green Bay</b>       |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit                      | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>40                     |             | 0.0-0.75'     | ASPHALT  |         |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 0.75-2.5'     | SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)                           | GM      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 2.5-3.0'      | ASPHALT  |         |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 3.0-3.25'     | SILTY GRAVEL, brown, 3/4" angular gravel, dry (FILL, GM)                           | GM      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 3.25-3.75'    | ASPHALT  |         |             |              |         |                      |                  |              |                  |       |               |
| 2 CS                   | 48<br>18                     |             | 3.75-5.5'     | SILT, dark brown / green, non-cohesive, non-plastic, dense, water at 4' (TILL, ML) | ML      |             | ▼            | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 5.5-8.0'      | No recovery, soil slid out of tube.  |         |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|



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

|   |                        |   |   |  |  |
|---|------------------------|---|---|--|--|
| Facility/Project Name<br><b>One Hour Martinizing</b>  |                        | License/Permit/Monitoring Number<br><b>02-05-217276</b> |   | Boring Number<br><b>B-21</b>                 |  |
| Boring Drilled By: Name of crew chief (first, last) and Firm<br><b>Dan Bendorf<br/>Probe Technologies, Inc.</b>   |                        | Date Drilling Started<br><b>12/11/2012</b>              |   | Date Drilling Completed<br><b>12/11/2012</b> |  |
| Drilling Method<br><b>geoprobe</b>  |                        |   |   |  |  |
| WI Unique Well No.  | DNR Well ID No.        | Common Well Name  | Final Static Water Level<br><b>Feet MSL</b>   | Surface Elevation<br><b>Feet MSL</b>         | Borehole Diameter<br><b>2.0 inches</b> |
| Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input checked="" type="checkbox"/><br>State Plane <b>N, E S/C/N</b> |                        |   | Local Grid Location<br><input type="checkbox"/> N <input type="checkbox"/> E<br><input type="checkbox"/> S <input type="checkbox"/> W |  |  |
| NW 1/4 of SE 1/4 of Section 5, T 23 N, R 21 E   |                        |   | Lat _____ ' _____ " _____"<br>Long _____ ' _____ " _____"   |  |  |
| Facility ID   | County<br><b>Brown</b> | County Code<br><b>5</b>                                 | Civil Town/City/ or Village<br><b>Green Bay</b>   |  |  |

| Sample Number and Type | Length Att. & Recovered (in) | Blow Counts | Depth In Feet | Soil/Rock Description And Geologic Origin For Each Major Unit  | U S C S | Graphic Log | Well Diagram | PID/FID | Soil Properties      |                  |              |                  |       | RQD/ Comments |
|------------------------|------------------------------|-------------|---------------|--|---------|-------------|--------------|---------|----------------------|------------------|--------------|------------------|-------|---------------|
|                        |                              |             |               |  |         |             |              |         | Compressive Strength | Moisture Content | Liquid Limit | Plasticity Index | P 200 |               |
| 1 CS                   | 48<br>33                     |             | 0.5           | 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<br>35                     |             | 4.0           | 3.75-4.25' SANDY SILT, very fine grained sand, brown, non-cohesive, non-plastic, dense, dry (FILL, ML) | ML      |             |              | 0.0     |                      |                  |              |                  |       |               |
|                        |                              |             | 4.5           | 4.25-6.0' SILT, dark brown / green, non-cohesive, non-plastic, dense, water at 4.5' (TILL, ML)         | ML      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 6.0           | 6.0-8.0' SILTY CLAY, brown, cohesive, high plasticity, very stiff, moist to wet (TILL, CH)             | CH      |             |              |         |                      |                  |              |                  |       |               |
|                        |                              |             | 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 <b>Alpha Terra Science</b><br>1237 Pilgrim Rd. Plymouth, WI 53073 | Tel: 920-892-2444<br>Fax: 920-892-2620 |
|-----------|--|--|

## Appendix C

Laboratory Analytical Reports

March 24, 2017

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

RE: Project: 14-1138 RICE ENTERPRISES  
Pace Project No.: 40147028

Dear Matt Dahlem:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2017. 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@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Megan Hansen, Fehr Graham Engineering and  
Environmental



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## CERTIFICATIONS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

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### 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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

| Lab ID      | Sample ID | Matrix | Date Collected | Date Received  |
|-------------|-----------|--------|----------------|----------------|
| 40147028001 | MW-1      | Water  | 03/21/17 11:20 | 03/21/17 13:45 |
| 40147028002 | PZ-1      | Water  | 03/21/17 11:25 | 03/21/17 13:45 |
| 40147028003 | MW-2      | Water  | 03/21/17 11:15 | 03/21/17 13:45 |
| 40147028004 | SMW-3     | Water  | 03/21/17 13:05 | 03/21/17 13:45 |
| 40147028005 | MW-4      | Water  | 03/21/17 11:50 | 03/21/17 13:45 |
| 40147028006 | MW-5      | Water  | 03/21/17 11:45 | 03/21/17 13:45 |
| 40147028007 | MW-6      | Water  | 03/21/17 11:40 | 03/21/17 13:45 |
| 40147028008 | MW-7      | Water  | 03/21/17 11:30 | 03/21/17 13:45 |
| 40147028009 | MW-8      | Water  | 03/21/17 11:10 | 03/21/17 13:45 |
| 40147028010 | MW-9      | Water  | 03/21/17 11:35 | 03/21/17 13:45 |
| 40147028011 | GEC TW-4  | Water  | 03/21/17 11:05 | 03/21/17 13:45 |
| 40147028012 | GEC TW-5  | Water  | 03/21/17 11:00 | 03/21/17 13:45 |
| 40147028013 | TB        | Water  | 03/21/17 00:00 | 03/21/17 13:45 |

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

| Lab ID      | Sample ID | Method   | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|----------|----------|-------------------|------------|
| 40147028001 | MW-1      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028002 | PZ-1      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028003 | MW-2      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028004 | SMW-3     | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028005 | MW-4      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028006 | MW-5      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028007 | MW-6      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028008 | MW-7      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028009 | MW-8      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028010 | MW-9      | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028011 | GEC TW-4  | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028012 | GEC TW-5  | EPA 8260 | HNW      | 64                | PASI-G     |
| 40147028013 | TB        | EPA 8260 | HNW      | 64                | PASI-G     |

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

| Lab Sample ID<br>Method | Client Sample ID<br>Parameters | Result | Units | Report Limit | Analyzed       | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| <b>40147028001</b>      | <b>MW-1</b>                    |        |       |              |                |            |
| EPA 8260                | Tetrachloroethene              | 4.8    | ug/L  | 1.0          | 03/23/17 11:14 |            |
| <b>40147028004</b>      | <b>SMW-3</b>                   |        |       |              |                |            |
| EPA 8260                | cis-1,2-Dichloroethene         | 148    | ug/L  | 25.0         | 03/23/17 10:51 |            |
| EPA 8260                | trans-1,2-Dichloroethene       | 12.0J  | ug/L  | 25.0         | 03/23/17 10:51 |            |
| EPA 8260                | Tetrachloroethene              | 4150   | ug/L  | 25.0         | 03/23/17 10:51 |            |
| EPA 8260                | Trichloroethene                | 1050   | ug/L  | 25.0         | 03/23/17 10:51 |            |
| <b>40147028007</b>      | <b>MW-6</b>                    |        |       |              |                |            |
| EPA 8260                | Toluene                        | 4.1    | ug/L  | 1.0          | 03/23/17 12:42 |            |
| <b>40147028008</b>      | <b>MW-7</b>                    |        |       |              |                |            |
| EPA 8260                | Tetrachloroethene              | 1.7    | ug/L  | 1.0          | 03/23/17 13:05 |            |
| <b>40147028010</b>      | <b>MW-9</b>                    |        |       |              |                |            |
| EPA 8260                | Trichloroethene                | 0.58J  | ug/L  | 1.0          | 03/23/17 13:49 |            |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-1**      **Lab ID: 40147028001**      Collected: 03/21/17 11:20      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:14 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 11:14 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 11:14 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:14 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:14 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 11:14 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:14 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 11:14 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:14 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:14 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 11:14 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 11:14 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 11:14 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:14 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 11:14 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:14 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:14 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:14 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 11:14 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 11:14 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:14 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 11:14 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 11:14 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:14 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:14 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:14 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:14 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:14 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-1**      **Lab ID: 40147028001**      Collected: 03/21/17 11:20      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 11:14 | 79-34-5     |      |
| Tetrachloroethene           | 4.8     | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 11:14 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 11:14 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 11:14 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 11:14 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:14 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:14 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 11:14 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:14 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 11:14 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 117     | %     | 70-130 |      | 1  |          | 03/23/17 11:14 | 1868-53-7   |      |
| Toluene-d8 (S)              | 90      | %     | 70-130 |      | 1  |          | 03/23/17 11:14 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: PZ-1**      **Lab ID: 40147028002**      Collected: 03/21/17 11:25      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:36 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 11:36 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 11:36 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:36 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:36 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 11:36 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:36 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 11:36 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:36 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:36 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 11:36 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 11:36 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 11:36 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:36 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 11:36 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:36 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:36 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:36 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 11:36 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 11:36 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:36 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 11:36 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 11:36 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:36 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:36 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:36 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:36 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:36 | 630-20-6   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: PZ-1**      **Lab ID: 40147028002**      Collected: 03/21/17 11:25      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 11:36 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 11:36 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 11:36 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 11:36 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 11:36 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:36 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:36 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 11:36 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:36 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 11:36 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 114     | %     | 70-130 |      | 1  |          | 03/23/17 11:36 | 1868-53-7   |      |
| Toluene-d8 (S)              | 90      | %     | 70-130 |      | 1  |          | 03/23/17 11:36 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-2**      **Lab ID: 40147028003**      Collected: 03/21/17 11:15      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 71-43-2    |      |
| Bromobenzene                | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 09:45 | 108-86-1   |      |
| Bromochloromethane          | <0.34   | ug/L                        | 1.0 | 0.34 | 1  |          | 03/23/17 09:45 | 74-97-5    |      |
| Bromodichloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 75-27-4    |      |
| Bromoform                   | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 75-25-2    |      |
| Bromomethane                | <2.4    | ug/L                        | 5.0 | 2.4  | 1  |          | 03/23/17 09:45 | 74-83-9    |      |
| n-Butylbenzene              | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 104-51-8   |      |
| sec-Butylbenzene            | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 09:45 | 135-98-8   |      |
| tert-Butylbenzene           | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 09:45 | 98-06-6    |      |
| Carbon tetrachloride        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 56-23-5    |      |
| Chlorobenzene               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 108-90-7   |      |
| Chloroethane                | <0.37   | ug/L                        | 1.0 | 0.37 | 1  |          | 03/23/17 09:45 | 75-00-3    |      |
| Chloroform                  | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 09:45 | 67-66-3    |      |
| Chloromethane               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 74-87-3    |      |
| 2-Chlorotoluene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 95-49-8    |      |
| 4-Chlorotoluene             | <0.21   | ug/L                        | 1.0 | 0.21 | 1  |          | 03/23/17 09:45 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 09:45 | 96-12-8    |      |
| Dibromochloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 09:45 | 106-93-4   |      |
| Dibromomethane              | <0.43   | ug/L                        | 1.0 | 0.43 | 1  |          | 03/23/17 09:45 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 106-46-7   |      |
| Dichlorodifluoromethane     | <0.22   | ug/L                        | 1.0 | 0.22 | 1  |          | 03/23/17 09:45 | 75-71-8    |      |
| 1,1-Dichloroethane          | <0.24   | ug/L                        | 1.0 | 0.24 | 1  |          | 03/23/17 09:45 | 75-34-3    |      |
| 1,2-Dichloroethane          | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 09:45 | 107-06-2   |      |
| 1,1-Dichloroethene          | <0.41   | ug/L                        | 1.0 | 0.41 | 1  |          | 03/23/17 09:45 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 09:45 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 09:45 | 156-60-5   |      |
| 1,2-Dichloropropane         | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 09:45 | 78-87-5    |      |
| 1,3-Dichloropropane         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 142-28-9   |      |
| 2,2-Dichloropropane         | <0.48   | ug/L                        | 1.0 | 0.48 | 1  |          | 03/23/17 09:45 | 594-20-7   |      |
| 1,1-Dichloropropene         | <0.44   | ug/L                        | 1.0 | 0.44 | 1  |          | 03/23/17 09:45 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 09:45 | 10061-02-6 |      |
| Diisopropyl ether           | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 108-20-3   |      |
| Ethylbenzene                | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 03/23/17 09:45 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <0.14   | ug/L                        | 1.0 | 0.14 | 1  |          | 03/23/17 09:45 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 99-87-6    |      |
| Methylene Chloride          | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 09:45 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 09:45 | 1634-04-4  |      |
| Naphthalene                 | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 09:45 | 91-20-3    |      |
| n-Propylbenzene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 103-65-1   |      |
| Styrene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 09:45 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 09:45 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-2**      **Lab ID: 40147028003**      Collected: 03/21/17 11:15      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 09:45 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 09:45 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 09:45 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 09:45 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 09:45 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 09:45 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 09:45 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 09:45 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 09:45 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 09:45 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 111     | %     | 70-130 |      | 1  |          | 03/23/17 09:45 | 1868-53-7   |      |
| Toluene-d8 (S)              | 90      | %     | 70-130 |      | 1  |          | 03/23/17 09:45 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: SMW-3**      **Lab ID: 40147028004**      Collected: 03/21/17 13:05      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units                       | LOQ  | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|------|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |      |      |    |          |                |            |      |
| Benzene                     | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 71-43-2    |      |
| Bromobenzene                | <5.8    | ug/L                        | 25.0 | 5.8  | 25 |          | 03/23/17 10:51 | 108-86-1   |      |
| Bromochloromethane          | <8.5    | ug/L                        | 25.0 | 8.5  | 25 |          | 03/23/17 10:51 | 74-97-5    |      |
| Bromodichloromethane        | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 75-27-4    |      |
| Bromoform                   | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 75-25-2    |      |
| Bromomethane                | <60.9   | ug/L                        | 125  | 60.9 | 25 |          | 03/23/17 10:51 | 74-83-9    |      |
| n-Butylbenzene              | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 104-51-8   |      |
| sec-Butylbenzene            | <54.7   | ug/L                        | 125  | 54.7 | 25 |          | 03/23/17 10:51 | 135-98-8   |      |
| tert-Butylbenzene           | <4.5    | ug/L                        | 25.0 | 4.5  | 25 |          | 03/23/17 10:51 | 98-06-6    |      |
| Carbon tetrachloride        | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 56-23-5    |      |
| Chlorobenzene               | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 108-90-7   |      |
| Chloroethane                | <9.4    | ug/L                        | 25.0 | 9.4  | 25 |          | 03/23/17 10:51 | 75-00-3    |      |
| Chloroform                  | <62.5   | ug/L                        | 125  | 62.5 | 25 |          | 03/23/17 10:51 | 67-66-3    |      |
| Chloromethane               | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 74-87-3    |      |
| 2-Chlorotoluene             | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 95-49-8    |      |
| 4-Chlorotoluene             | <5.3    | ug/L                        | 25.0 | 5.3  | 25 |          | 03/23/17 10:51 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <54.1   | ug/L                        | 125  | 54.1 | 25 |          | 03/23/17 10:51 | 96-12-8    |      |
| Dibromochloromethane        | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <4.4    | ug/L                        | 25.0 | 4.4  | 25 |          | 03/23/17 10:51 | 106-93-4   |      |
| Dibromomethane              | <10.7   | ug/L                        | 25.0 | 10.7 | 25 |          | 03/23/17 10:51 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 106-46-7   |      |
| Dichlorodifluoromethane     | <5.6    | ug/L                        | 25.0 | 5.6  | 25 |          | 03/23/17 10:51 | 75-71-8    |      |
| 1,1-Dichloroethane          | <6.0    | ug/L                        | 25.0 | 6.0  | 25 |          | 03/23/17 10:51 | 75-34-3    |      |
| 1,2-Dichloroethane          | <4.2    | ug/L                        | 25.0 | 4.2  | 25 |          | 03/23/17 10:51 | 107-06-2   |      |
| 1,1-Dichloroethene          | <10.3   | ug/L                        | 25.0 | 10.3 | 25 |          | 03/23/17 10:51 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | 148     | ug/L                        | 25.0 | 6.4  | 25 |          | 03/23/17 10:51 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | 12.0J   | ug/L                        | 25.0 | 6.4  | 25 |          | 03/23/17 10:51 | 156-60-5   |      |
| 1,2-Dichloropropane         | <5.8    | ug/L                        | 25.0 | 5.8  | 25 |          | 03/23/17 10:51 | 78-87-5    |      |
| 1,3-Dichloropropane         | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 142-28-9   |      |
| 2,2-Dichloropropane         | <12.1   | ug/L                        | 25.0 | 12.1 | 25 |          | 03/23/17 10:51 | 594-20-7   |      |
| 1,1-Dichloropropene         | <11.0   | ug/L                        | 25.0 | 11.0 | 25 |          | 03/23/17 10:51 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <5.7    | ug/L                        | 25.0 | 5.7  | 25 |          | 03/23/17 10:51 | 10061-02-6 |      |
| Diisopropyl ether           | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 108-20-3   |      |
| Ethylbenzene                | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <52.6   | ug/L                        | 125  | 52.6 | 25 |          | 03/23/17 10:51 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <3.6    | ug/L                        | 25.0 | 3.6  | 25 |          | 03/23/17 10:51 | 98-82-8    |      |
| p-Isopropyltoluene          | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 99-87-6    |      |
| Methylene Chloride          | <5.8    | ug/L                        | 25.0 | 5.8  | 25 |          | 03/23/17 10:51 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <4.4    | ug/L                        | 25.0 | 4.4  | 25 |          | 03/23/17 10:51 | 1634-04-4  |      |
| Naphthalene                 | <62.5   | ug/L                        | 125  | 62.5 | 25 |          | 03/23/17 10:51 | 91-20-3    |      |
| n-Propylbenzene             | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 103-65-1   |      |
| Styrene                     | <12.5   | ug/L                        | 25.0 | 12.5 | 25 |          | 03/23/17 10:51 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <4.5    | ug/L                        | 25.0 | 4.5  | 25 |          | 03/23/17 10:51 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: SMW-3**      **Lab ID: 40147028004**      Collected: 03/21/17 13:05      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <6.2    | ug/L  | 25.0   | 6.2  | 25 |          | 03/23/17 10:51 | 79-34-5     |      |
| Tetrachloroethene           | 4150    | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 127-18-4    |      |
| Toluene                     | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <53.3   | ug/L  | 125    | 53.3 | 25 |          | 03/23/17 10:51 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <55.2   | ug/L  | 125    | 55.2 | 25 |          | 03/23/17 10:51 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <4.9    | ug/L  | 25.0   | 4.9  | 25 |          | 03/23/17 10:51 | 79-00-5     |      |
| Trichloroethene             | 1050    | ug/L  | 25.0   | 8.3  | 25 |          | 03/23/17 10:51 | 79-01-6     |      |
| Trichlorofluoromethane      | <4.6    | ug/L  | 25.0   | 4.6  | 25 |          | 03/23/17 10:51 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 108-67-8    |      |
| Vinyl chloride              | <4.4    | ug/L  | 25.0   | 4.4  | 25 |          | 03/23/17 10:51 | 75-01-4     |      |
| m&p-Xylene                  | <25.0   | ug/L  | 50.0   | 25.0 | 25 |          | 03/23/17 10:51 | 179601-23-1 |      |
| o-Xylene                    | <12.5   | ug/L  | 25.0   | 12.5 | 25 |          | 03/23/17 10:51 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 90      | %     | 70-130 |      | 25 |          | 03/23/17 10:51 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 113     | %     | 70-130 |      | 25 |          | 03/23/17 10:51 | 1868-53-7   |      |
| Toluene-d8 (S)              | 89      | %     | 70-130 |      | 25 |          | 03/23/17 10:51 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-4**      **Lab ID: 40147028005**      Collected: 03/21/17 11:50      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:58 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 11:58 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 11:58 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:58 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:58 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 11:58 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:58 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 11:58 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 11:58 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:58 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 11:58 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 11:58 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 11:58 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:58 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 11:58 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:58 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 11:58 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:58 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 11:58 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 11:58 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:58 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 11:58 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 11:58 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 11:58 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 11:58 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 11:58 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 11:58 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 11:58 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-4**      **Lab ID: 40147028005**      Collected: 03/21/17 11:50      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane                   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 11:58 | 79-34-5     |      |
| Tetrachloroethene                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 127-18-4    |      |
| Toluene                                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 11:58 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 11:58 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 71-55-6     |      |
| 1,1,2-Trichloroethane                       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 11:58 | 79-00-5     |      |
| Trichloroethene                             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 11:58 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:58 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 108-67-8    |      |
| Vinyl chloride                              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 11:58 | 75-01-4     |      |
| m&p-Xylene                                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 11:58 | 179601-23-1 |      |
| o-Xylene                                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 11:58 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 11:58 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 116     | %     | 70-130 |      | 1  |          | 03/23/17 11:58 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 91      | %     | 70-130 |      | 1  |          | 03/23/17 11:58 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-5**      **Lab ID: 40147028006**      Collected: 03/21/17 11:45      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:20 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 12:20 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 12:20 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 12:20 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:20 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 12:20 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 12:20 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 12:20 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 12:20 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:20 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 12:20 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 12:20 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 12:20 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 12:20 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 12:20 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 12:20 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 12:20 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:20 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 12:20 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 12:20 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:20 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 12:20 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 12:20 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:20 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 12:20 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 12:20 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:20 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:20 | 630-20-6   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-5**      **Lab ID: 40147028006**      Collected: 03/21/17 11:45      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 12:20 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 12:20 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 12:20 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 12:20 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 12:20 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 12:20 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 12:20 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 12:20 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:20 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 12:20 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 117     | %     | 70-130 |      | 1  |          | 03/23/17 12:20 | 1868-53-7   |      |
| Toluene-d8 (S)              | 89      | %     | 70-130 |      | 1  |          | 03/23/17 12:20 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-6**      **Lab ID: 40147028007**      Collected: 03/21/17 11:40      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:42 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 12:42 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 12:42 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 12:42 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:42 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 12:42 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 12:42 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 12:42 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 12:42 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:42 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 12:42 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 12:42 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 12:42 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 12:42 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 12:42 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 12:42 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 12:42 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:42 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 12:42 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 12:42 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:42 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 12:42 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 12:42 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 12:42 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 12:42 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 12:42 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 12:42 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 12:42 | 630-20-6   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES  
Pace Project No.: 40147028

**Sample: MW-6**      **Lab ID: 40147028007**      Collected: 03/21/17 11:40      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane                   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 12:42 | 79-34-5     |      |
| Tetrachloroethene                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 127-18-4    |      |
| Toluene                                     | 4.1     | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 12:42 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 12:42 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 71-55-6     |      |
| 1,1,2-Trichloroethane                       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 12:42 | 79-00-5     |      |
| Trichloroethene                             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 12:42 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 12:42 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 108-67-8    |      |
| Vinyl chloride                              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 12:42 | 75-01-4     |      |
| m&p-Xylene                                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 12:42 | 179601-23-1 |      |
| o-Xylene                                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 12:42 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 91      | %     | 70-130 |      | 1  |          | 03/23/17 12:42 | 460-00-4    | HS   |
| Dibromofluoromethane (S)                    | 117     | %     | 70-130 |      | 1  |          | 03/23/17 12:42 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 89      | %     | 70-130 |      | 1  |          | 03/23/17 12:42 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-7**      **Lab ID: 40147028008**      Collected: 03/21/17 11:30      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 13:05 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/23/17 13:05 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/23/17 13:05 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 13:05 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 13:05 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/23/17 13:05 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 13:05 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/23/17 13:05 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/23/17 13:05 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 13:05 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/23/17 13:05 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/23/17 13:05 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/23/17 13:05 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 13:05 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/23/17 13:05 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 13:05 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/23/17 13:05 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 13:05 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/23/17 13:05 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/23/17 13:05 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 13:05 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/23/17 13:05 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/23/17 13:05 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/23/17 13:05 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/23/17 13:05 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/23/17 13:05 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/23/17 13:05 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/23/17 13:05 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-7**      **Lab ID: 40147028008**      Collected: 03/21/17 11:30      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 13:05 | 79-34-5     |      |
| Tetrachloroethene           | 1.7     | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 13:05 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 13:05 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 13:05 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 13:05 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:05 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:05 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 13:05 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:05 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 13:05 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 113     | %     | 70-130 |      | 1  |          | 03/23/17 13:05 | 1868-53-7   |      |
| Toluene-d8 (S)              | 89      | %     | 70-130 |      | 1  |          | 03/23/17 13:05 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-8**      **Lab ID: 40147028009**      Collected: 03/21/17 11:10      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 71-43-2    |      |
| Bromobenzene                | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:27 | 108-86-1   |      |
| Bromochloromethane          | <0.34   | ug/L                        | 1.0 | 0.34 | 1  |          | 03/23/17 13:27 | 74-97-5    |      |
| Bromodichloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 75-27-4    |      |
| Bromoform                   | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 75-25-2    |      |
| Bromomethane                | <2.4    | ug/L                        | 5.0 | 2.4  | 1  |          | 03/23/17 13:27 | 74-83-9    |      |
| n-Butylbenzene              | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 104-51-8   |      |
| sec-Butylbenzene            | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 13:27 | 135-98-8   |      |
| tert-Butylbenzene           | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:27 | 98-06-6    |      |
| Carbon tetrachloride        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 56-23-5    |      |
| Chlorobenzene               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 108-90-7   |      |
| Chloroethane                | <0.37   | ug/L                        | 1.0 | 0.37 | 1  |          | 03/23/17 13:27 | 75-00-3    |      |
| Chloroform                  | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 13:27 | 67-66-3    |      |
| Chloromethane               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 74-87-3    |      |
| 2-Chlorotoluene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 95-49-8    |      |
| 4-Chlorotoluene             | <0.21   | ug/L                        | 1.0 | 0.21 | 1  |          | 03/23/17 13:27 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 13:27 | 96-12-8    |      |
| Dibromochloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:27 | 106-93-4   |      |
| Dibromomethane              | <0.43   | ug/L                        | 1.0 | 0.43 | 1  |          | 03/23/17 13:27 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 106-46-7   |      |
| Dichlorodifluoromethane     | <0.22   | ug/L                        | 1.0 | 0.22 | 1  |          | 03/23/17 13:27 | 75-71-8    |      |
| 1,1-Dichloroethane          | <0.24   | ug/L                        | 1.0 | 0.24 | 1  |          | 03/23/17 13:27 | 75-34-3    |      |
| 1,2-Dichloroethane          | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 13:27 | 107-06-2   |      |
| 1,1-Dichloroethene          | <0.41   | ug/L                        | 1.0 | 0.41 | 1  |          | 03/23/17 13:27 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 13:27 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 13:27 | 156-60-5   |      |
| 1,2-Dichloropropane         | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:27 | 78-87-5    |      |
| 1,3-Dichloropropane         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 142-28-9   |      |
| 2,2-Dichloropropane         | <0.48   | ug/L                        | 1.0 | 0.48 | 1  |          | 03/23/17 13:27 | 594-20-7   |      |
| 1,1-Dichloropropene         | <0.44   | ug/L                        | 1.0 | 0.44 | 1  |          | 03/23/17 13:27 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:27 | 10061-02-6 |      |
| Diisopropyl ether           | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 108-20-3   |      |
| Ethylbenzene                | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 03/23/17 13:27 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <0.14   | ug/L                        | 1.0 | 0.14 | 1  |          | 03/23/17 13:27 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 99-87-6    |      |
| Methylene Chloride          | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:27 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 13:27 | 1634-04-4  |      |
| Naphthalene                 | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 13:27 | 91-20-3    |      |
| n-Propylbenzene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 103-65-1   |      |
| Styrene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:27 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:27 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-8**      **Lab ID: 40147028009**      Collected: 03/21/17 11:10      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 13:27 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 13:27 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 13:27 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 13:27 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 13:27 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:27 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:27 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 13:27 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:27 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 13:27 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 117     | %     | 70-130 |      | 1  |          | 03/23/17 13:27 | 1868-53-7   |      |
| Toluene-d8 (S)              | 89      | %     | 70-130 |      | 1  |          | 03/23/17 13:27 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-9**      **Lab ID: 40147028010**      Collected: 03/21/17 11:35      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 71-43-2    |      |
| Bromobenzene                | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:49 | 108-86-1   |      |
| Bromochloromethane          | <0.34   | ug/L                        | 1.0 | 0.34 | 1  |          | 03/23/17 13:49 | 74-97-5    |      |
| Bromodichloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 75-27-4    |      |
| Bromoform                   | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 75-25-2    |      |
| Bromomethane                | <2.4    | ug/L                        | 5.0 | 2.4  | 1  |          | 03/23/17 13:49 | 74-83-9    |      |
| n-Butylbenzene              | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 104-51-8   |      |
| sec-Butylbenzene            | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 13:49 | 135-98-8   |      |
| tert-Butylbenzene           | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:49 | 98-06-6    |      |
| Carbon tetrachloride        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 56-23-5    |      |
| Chlorobenzene               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 108-90-7   |      |
| Chloroethane                | <0.37   | ug/L                        | 1.0 | 0.37 | 1  |          | 03/23/17 13:49 | 75-00-3    |      |
| Chloroform                  | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 13:49 | 67-66-3    |      |
| Chloromethane               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 74-87-3    |      |
| 2-Chlorotoluene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 95-49-8    |      |
| 4-Chlorotoluene             | <0.21   | ug/L                        | 1.0 | 0.21 | 1  |          | 03/23/17 13:49 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 13:49 | 96-12-8    |      |
| Dibromochloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:49 | 106-93-4   |      |
| Dibromomethane              | <0.43   | ug/L                        | 1.0 | 0.43 | 1  |          | 03/23/17 13:49 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 106-46-7   |      |
| Dichlorodifluoromethane     | <0.22   | ug/L                        | 1.0 | 0.22 | 1  |          | 03/23/17 13:49 | 75-71-8    |      |
| 1,1-Dichloroethane          | <0.24   | ug/L                        | 1.0 | 0.24 | 1  |          | 03/23/17 13:49 | 75-34-3    |      |
| 1,2-Dichloroethane          | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 13:49 | 107-06-2   |      |
| 1,1-Dichloroethene          | <0.41   | ug/L                        | 1.0 | 0.41 | 1  |          | 03/23/17 13:49 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 13:49 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 13:49 | 156-60-5   |      |
| 1,2-Dichloropropane         | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:49 | 78-87-5    |      |
| 1,3-Dichloropropane         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 142-28-9   |      |
| 2,2-Dichloropropane         | <0.48   | ug/L                        | 1.0 | 0.48 | 1  |          | 03/23/17 13:49 | 594-20-7   |      |
| 1,1-Dichloropropene         | <0.44   | ug/L                        | 1.0 | 0.44 | 1  |          | 03/23/17 13:49 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:49 | 10061-02-6 |      |
| Diisopropyl ether           | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 108-20-3   |      |
| Ethylbenzene                | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 03/23/17 13:49 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <0.14   | ug/L                        | 1.0 | 0.14 | 1  |          | 03/23/17 13:49 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 99-87-6    |      |
| Methylene Chloride          | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 13:49 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 13:49 | 1634-04-4  |      |
| Naphthalene                 | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 13:49 | 91-20-3    |      |
| n-Propylbenzene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 103-65-1   |      |
| Styrene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 13:49 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 13:49 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: MW-9**      **Lab ID: 40147028010**      Collected: 03/21/17 11:35      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/23/17 13:49 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/23/17 13:49 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/23/17 13:49 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/23/17 13:49 | 79-00-5     |      |
| Trichloroethene             | 0.58J   | ug/L  | 1.0    | 0.33 | 1  |          | 03/23/17 13:49 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:49 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/23/17 13:49 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/23/17 13:49 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/23/17 13:49 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 92      | %     | 70-130 |      | 1  |          | 03/23/17 13:49 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 117     | %     | 70-130 |      | 1  |          | 03/23/17 13:49 | 1868-53-7   |      |
| Toluene-d8 (S)              | 90      | %     | 70-130 |      | 1  |          | 03/23/17 13:49 | 2037-26-5   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: GEC TW-4**      **Lab ID: 40147028011**      Collected: 03/21/17 11:05      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units                       | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|-----------------------------|---------|-----------------------------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b>             |         | Analytical Method: EPA 8260 |     |      |    |          |                |            |      |
| Benzene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 71-43-2    |      |
| Bromobenzene                | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 14:11 | 108-86-1   |      |
| Bromochloromethane          | <0.34   | ug/L                        | 1.0 | 0.34 | 1  |          | 03/23/17 14:11 | 74-97-5    |      |
| Bromodichloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 75-27-4    |      |
| Bromoform                   | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 75-25-2    |      |
| Bromomethane                | <2.4    | ug/L                        | 5.0 | 2.4  | 1  |          | 03/23/17 14:11 | 74-83-9    |      |
| n-Butylbenzene              | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 104-51-8   |      |
| sec-Butylbenzene            | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 14:11 | 135-98-8   |      |
| tert-Butylbenzene           | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 14:11 | 98-06-6    |      |
| Carbon tetrachloride        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 56-23-5    |      |
| Chlorobenzene               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 108-90-7   |      |
| Chloroethane                | <0.37   | ug/L                        | 1.0 | 0.37 | 1  |          | 03/23/17 14:11 | 75-00-3    |      |
| Chloroform                  | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 14:11 | 67-66-3    |      |
| Chloromethane               | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 74-87-3    |      |
| 2-Chlorotoluene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 95-49-8    |      |
| 4-Chlorotoluene             | <0.21   | ug/L                        | 1.0 | 0.21 | 1  |          | 03/23/17 14:11 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane | <2.2    | ug/L                        | 5.0 | 2.2  | 1  |          | 03/23/17 14:11 | 96-12-8    |      |
| Dibromochloromethane        | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)     | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 14:11 | 106-93-4   |      |
| Dibromomethane              | <0.43   | ug/L                        | 1.0 | 0.43 | 1  |          | 03/23/17 14:11 | 74-95-3    |      |
| 1,2-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 95-50-1    |      |
| 1,3-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 541-73-1   |      |
| 1,4-Dichlorobenzene         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 106-46-7   |      |
| Dichlorodifluoromethane     | <0.22   | ug/L                        | 1.0 | 0.22 | 1  |          | 03/23/17 14:11 | 75-71-8    |      |
| 1,1-Dichloroethane          | <0.24   | ug/L                        | 1.0 | 0.24 | 1  |          | 03/23/17 14:11 | 75-34-3    |      |
| 1,2-Dichloroethane          | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 14:11 | 107-06-2   |      |
| 1,1-Dichloroethene          | <0.41   | ug/L                        | 1.0 | 0.41 | 1  |          | 03/23/17 14:11 | 75-35-4    |      |
| cis-1,2-Dichloroethene      | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 14:11 | 156-59-2   |      |
| trans-1,2-Dichloroethene    | <0.26   | ug/L                        | 1.0 | 0.26 | 1  |          | 03/23/17 14:11 | 156-60-5   |      |
| 1,2-Dichloropropane         | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 14:11 | 78-87-5    |      |
| 1,3-Dichloropropane         | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 142-28-9   |      |
| 2,2-Dichloropropane         | <0.48   | ug/L                        | 1.0 | 0.48 | 1  |          | 03/23/17 14:11 | 594-20-7   |      |
| 1,1-Dichloropropene         | <0.44   | ug/L                        | 1.0 | 0.44 | 1  |          | 03/23/17 14:11 | 563-58-6   |      |
| cis-1,3-Dichloropropene     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 10061-01-5 |      |
| trans-1,3-Dichloropropene   | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 14:11 | 10061-02-6 |      |
| Diisopropyl ether           | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 108-20-3   |      |
| Ethylbenzene                | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 100-41-4   |      |
| Hexachloro-1,3-butadiene    | <2.1    | ug/L                        | 5.0 | 2.1  | 1  |          | 03/23/17 14:11 | 87-68-3    |      |
| Isopropylbenzene (Cumene)   | <0.14   | ug/L                        | 1.0 | 0.14 | 1  |          | 03/23/17 14:11 | 98-82-8    |      |
| p-Isopropyltoluene          | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 99-87-6    |      |
| Methylene Chloride          | <0.23   | ug/L                        | 1.0 | 0.23 | 1  |          | 03/23/17 14:11 | 75-09-2    |      |
| Methyl-tert-butyl ether     | <0.17   | ug/L                        | 1.0 | 0.17 | 1  |          | 03/23/17 14:11 | 1634-04-4  |      |
| Naphthalene                 | <2.5    | ug/L                        | 5.0 | 2.5  | 1  |          | 03/23/17 14:11 | 91-20-3    |      |
| n-Propylbenzene             | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 103-65-1   |      |
| Styrene                     | <0.50   | ug/L                        | 1.0 | 0.50 | 1  |          | 03/23/17 14:11 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane   | <0.18   | ug/L                        | 1.0 | 0.18 | 1  |          | 03/23/17 14:11 | 630-20-6   |      |

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## ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: GEC TW-4**      **Lab ID: 40147028011**      Collected: 03/21/17 11:05      Received: 03/21/17 13:45      Matrix: Water

| Parameters                | Results | Units                       | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---------------------------|---------|-----------------------------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>           |         | Analytical Method: EPA 8260 |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane | <0.25   | ug/L                        | 1.0    | 0.25 | 1  |          | 03/23/17 14:11 | 79-34-5     |      |
| Tetrachloroethene         | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 127-18-4    |      |
| Toluene                   | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene    | <2.1    | ug/L                        | 5.0    | 2.1  | 1  |          | 03/23/17 14:11 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene    | <2.2    | ug/L                        | 5.0    | 2.2  | 1  |          | 03/23/17 14:11 | 120-82-1    |      |
| 1,1,1-Trichloroethane     | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 71-55-6     |      |
| 1,1,2-Trichloroethane     | <0.20   | ug/L                        | 1.0    | 0.20 | 1  |          | 03/23/17 14:11 | 79-00-5     |      |
| Trichloroethene           | <0.33   | ug/L                        | 1.0    | 0.33 | 1  |          | 03/23/17 14:11 | 79-01-6     |      |
| Trichlorofluoromethane    | <0.18   | ug/L                        | 1.0    | 0.18 | 1  |          | 03/23/17 14:11 | 75-69-4     |      |
| 1,2,3-Trichloropropane    | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene    | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 108-67-8    |      |
| Vinyl chloride            | <0.18   | ug/L                        | 1.0    | 0.18 | 1  |          | 03/23/17 14:11 | 75-01-4     |      |
| m&p-Xylene                | <1.0    | ug/L                        | 2.0    | 1.0  | 1  |          | 03/23/17 14:11 | 179601-23-1 |      |
| o-Xylene                  | <0.50   | ug/L                        | 1.0    | 0.50 | 1  |          | 03/23/17 14:11 | 95-47-6     |      |
| <b>Surrogates</b>         |         |                             |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)  | 92      | %                           | 70-130 |      | 1  |          | 03/23/17 14:11 | 460-00-4    |      |
| Dibromofluoromethane (S)  | 117     | %                           | 70-130 |      | 1  |          | 03/23/17 14:11 | 1868-53-7   |      |
| Toluene-d8 (S)            | 89      | %                           | 70-130 |      | 1  |          | 03/23/17 14:11 | 2037-26-5   |      |

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: GEC TW-5**      **Lab ID: 40147028012**      Collected: 03/21/17 11:00      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 01:05 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/24/17 01:05 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/24/17 01:05 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/24/17 01:05 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 01:05 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/24/17 01:05 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/24/17 01:05 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/24/17 01:05 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/24/17 01:05 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 01:05 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/24/17 01:05 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/24/17 01:05 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/24/17 01:05 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/24/17 01:05 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/24/17 01:05 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/24/17 01:05 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/24/17 01:05 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 01:05 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/24/17 01:05 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/24/17 01:05 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 01:05 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/24/17 01:05 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/24/17 01:05 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 01:05 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/24/17 01:05 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/24/17 01:05 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 01:05 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 01:05 | 630-20-6   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: GEC TW-5**      **Lab ID: 40147028012**      Collected: 03/21/17 11:00      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|---|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane                   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/24/17 01:05 | 79-34-5     |      |
| Tetrachloroethene                           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 127-18-4    |      |
| Toluene                                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene                      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/24/17 01:05 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene                      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/24/17 01:05 | 120-82-1    |      |
| 1,1,1-Trichloroethane                       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 71-55-6     |      |
| 1,1,2-Trichloroethane                       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/24/17 01:05 | 79-00-5     |      |
| Trichloroethene                             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/24/17 01:05 | 79-01-6     |      |
| Trichlorofluoromethane                      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/24/17 01:05 | 75-69-4     |      |
| 1,2,3-Trichloropropane                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene                      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 108-67-8    |      |
| Vinyl chloride                              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/24/17 01:05 | 75-01-4     |      |
| m&p-Xylene                                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/24/17 01:05 | 179601-23-1 |      |
| o-Xylene                                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 01:05 | 95-47-6     |      |
| <b>Surrogates</b>                           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)                    | 92      | %     | 70-130 |      | 1  |          | 03/24/17 01:05 | 460-00-4    |      |
| Dibromofluoromethane (S)                    | 115     | %     | 70-130 |      | 1  |          | 03/24/17 01:05 | 1868-53-7   |      |
| Toluene-d8 (S)                              | 88      | %     | 70-130 |      | 1  |          | 03/24/17 01:05 | 2037-26-5   |      |

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: TB**      **Lab ID: 40147028013**      Collected: 03/21/17 00:00      Received: 03/21/17 13:45      Matrix: Water

| Parameters                                  | Results | Units | LOQ | LOD  | DF | Prepared | Analyzed       | CAS No.    | Qual |
|---|---------|-------|-----|------|----|----------|----------------|------------|------|
| <b>8260 MSV</b> Analytical Method: EPA 8260 |         |       |     |      |    |          |                |            |      |
| Benzene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 71-43-2    |      |
| Bromobenzene                                | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 00:21 | 108-86-1   |      |
| Bromochloromethane                          | <0.34   | ug/L  | 1.0 | 0.34 | 1  |          | 03/24/17 00:21 | 74-97-5    |      |
| Bromodichloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 75-27-4    |      |
| Bromoform                                   | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 75-25-2    |      |
| Bromomethane                                | <2.4    | ug/L  | 5.0 | 2.4  | 1  |          | 03/24/17 00:21 | 74-83-9    |      |
| n-Butylbenzene                              | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 104-51-8   |      |
| sec-Butylbenzene                            | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/24/17 00:21 | 135-98-8   |      |
| tert-Butylbenzene                           | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 00:21 | 98-06-6    |      |
| Carbon tetrachloride                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 56-23-5    |      |
| Chlorobenzene                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 108-90-7   |      |
| Chloroethane                                | <0.37   | ug/L  | 1.0 | 0.37 | 1  |          | 03/24/17 00:21 | 75-00-3    |      |
| Chloroform                                  | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/24/17 00:21 | 67-66-3    |      |
| Chloromethane                               | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 74-87-3    |      |
| 2-Chlorotoluene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 95-49-8    |      |
| 4-Chlorotoluene                             | <0.21   | ug/L  | 1.0 | 0.21 | 1  |          | 03/24/17 00:21 | 106-43-4   |      |
| 1,2-Dibromo-3-chloropropane                 | <2.2    | ug/L  | 5.0 | 2.2  | 1  |          | 03/24/17 00:21 | 96-12-8    |      |
| Dibromochloromethane                        | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 124-48-1   |      |
| 1,2-Dibromoethane (EDB)                     | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 00:21 | 106-93-4   |      |
| Dibromomethane                              | <0.43   | ug/L  | 1.0 | 0.43 | 1  |          | 03/24/17 00:21 | 74-95-3    |      |
| 1,2-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 95-50-1    |      |
| 1,3-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 541-73-1   |      |
| 1,4-Dichlorobenzene                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 106-46-7   |      |
| Dichlorodifluoromethane                     | <0.22   | ug/L  | 1.0 | 0.22 | 1  |          | 03/24/17 00:21 | 75-71-8    |      |
| 1,1-Dichloroethane                          | <0.24   | ug/L  | 1.0 | 0.24 | 1  |          | 03/24/17 00:21 | 75-34-3    |      |
| 1,2-Dichloroethane                          | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/24/17 00:21 | 107-06-2   |      |
| 1,1-Dichloroethene                          | <0.41   | ug/L  | 1.0 | 0.41 | 1  |          | 03/24/17 00:21 | 75-35-4    |      |
| cis-1,2-Dichloroethene                      | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/24/17 00:21 | 156-59-2   |      |
| trans-1,2-Dichloroethene                    | <0.26   | ug/L  | 1.0 | 0.26 | 1  |          | 03/24/17 00:21 | 156-60-5   |      |
| 1,2-Dichloropropane                         | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 00:21 | 78-87-5    |      |
| 1,3-Dichloropropane                         | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 142-28-9   |      |
| 2,2-Dichloropropane                         | <0.48   | ug/L  | 1.0 | 0.48 | 1  |          | 03/24/17 00:21 | 594-20-7   |      |
| 1,1-Dichloropropene                         | <0.44   | ug/L  | 1.0 | 0.44 | 1  |          | 03/24/17 00:21 | 563-58-6   |      |
| cis-1,3-Dichloropropene                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 10061-01-5 |      |
| trans-1,3-Dichloropropene                   | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 00:21 | 10061-02-6 |      |
| Diisopropyl ether                           | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 108-20-3   |      |
| Ethylbenzene                                | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 100-41-4   |      |
| Hexachloro-1,3-butadiene                    | <2.1    | ug/L  | 5.0 | 2.1  | 1  |          | 03/24/17 00:21 | 87-68-3    |      |
| Isopropylbenzene (Cumene)                   | <0.14   | ug/L  | 1.0 | 0.14 | 1  |          | 03/24/17 00:21 | 98-82-8    |      |
| p-Isopropyltoluene                          | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 99-87-6    |      |
| Methylene Chloride                          | <0.23   | ug/L  | 1.0 | 0.23 | 1  |          | 03/24/17 00:21 | 75-09-2    |      |
| Methyl-tert-butyl ether                     | <0.17   | ug/L  | 1.0 | 0.17 | 1  |          | 03/24/17 00:21 | 1634-04-4  |      |
| Naphthalene                                 | <2.5    | ug/L  | 5.0 | 2.5  | 1  |          | 03/24/17 00:21 | 91-20-3    |      |
| n-Propylbenzene                             | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 103-65-1   |      |
| Styrene                                     | <0.50   | ug/L  | 1.0 | 0.50 | 1  |          | 03/24/17 00:21 | 100-42-5   |      |
| 1,1,1,2-Tetrachloroethane                   | <0.18   | ug/L  | 1.0 | 0.18 | 1  |          | 03/24/17 00:21 | 630-20-6   |      |

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

**Sample: TB**      **Lab ID: 40147028013**      Collected: 03/21/17 00:00      Received: 03/21/17 13:45      Matrix: Water

| Parameters                  | Results | Units | LOQ    | LOD  | DF | Prepared | Analyzed       | CAS No.     | Qual |
|-----------------------------|---------|-------|--------|------|----|----------|----------------|-------------|------|
| <b>8260 MSV</b>             |         |       |        |      |    |          |                |             |      |
| Analytical Method: EPA 8260 |         |       |        |      |    |          |                |             |      |
| 1,1,2,2-Tetrachloroethane   | <0.25   | ug/L  | 1.0    | 0.25 | 1  |          | 03/24/17 00:21 | 79-34-5     |      |
| Tetrachloroethene           | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 127-18-4    |      |
| Toluene                     | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 108-88-3    |      |
| 1,2,3-Trichlorobenzene      | <2.1    | ug/L  | 5.0    | 2.1  | 1  |          | 03/24/17 00:21 | 87-61-6     |      |
| 1,2,4-Trichlorobenzene      | <2.2    | ug/L  | 5.0    | 2.2  | 1  |          | 03/24/17 00:21 | 120-82-1    |      |
| 1,1,1-Trichloroethane       | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 71-55-6     |      |
| 1,1,2-Trichloroethane       | <0.20   | ug/L  | 1.0    | 0.20 | 1  |          | 03/24/17 00:21 | 79-00-5     |      |
| Trichloroethene             | <0.33   | ug/L  | 1.0    | 0.33 | 1  |          | 03/24/17 00:21 | 79-01-6     |      |
| Trichlorofluoromethane      | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/24/17 00:21 | 75-69-4     |      |
| 1,2,3-Trichloropropane      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 96-18-4     |      |
| 1,2,4-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 95-63-6     |      |
| 1,3,5-Trimethylbenzene      | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 108-67-8    |      |
| Vinyl chloride              | <0.18   | ug/L  | 1.0    | 0.18 | 1  |          | 03/24/17 00:21 | 75-01-4     |      |
| m&p-Xylene                  | <1.0    | ug/L  | 2.0    | 1.0  | 1  |          | 03/24/17 00:21 | 179601-23-1 |      |
| o-Xylene                    | <0.50   | ug/L  | 1.0    | 0.50 | 1  |          | 03/24/17 00:21 | 95-47-6     |      |
| <b>Surrogates</b>           |         |       |        |      |    |          |                |             |      |
| 4-Bromofluorobenzene (S)    | 93      | %     | 70-130 |      | 1  |          | 03/24/17 00:21 | 460-00-4    |      |
| Dibromofluoromethane (S)    | 114     | %     | 70-130 |      | 1  |          | 03/24/17 00:21 | 1868-53-7   |      |
| Toluene-d8 (S)              | 89      | %     | 70-130 |      | 1  |          | 03/24/17 00:21 | 2037-26-5   |      |

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

QC Batch: 250770 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40147028001, 40147028002, 40147028003, 40147028004, 40147028005, 40147028006, 40147028007, 40147028008, 40147028009, 40147028010, 40147028011, 40147028012, 40147028013

METHOD BLANK: 1479945 Matrix: Water  
Associated Lab Samples: 40147028001, 40147028002, 40147028003, 40147028004, 40147028005, 40147028006, 40147028007, 40147028008, 40147028009, 40147028010, 40147028011, 40147028012, 40147028013

| Parameter                   | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|-----------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1,2-Tetrachloroethane   | ug/L  | <0.18        | 1.0             | 03/23/17 07:54 |            |
| 1,1,1-Trichloroethane       | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.25        | 1.0             | 03/23/17 07:54 |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.20        | 1.0             | 03/23/17 07:54 |            |
| 1,1-Dichloroethane          | ug/L  | <0.24        | 1.0             | 03/23/17 07:54 |            |
| 1,1-Dichloroethene          | ug/L  | <0.41        | 1.0             | 03/23/17 07:54 |            |
| 1,1-Dichloropropene         | ug/L  | <0.44        | 1.0             | 03/23/17 07:54 |            |
| 1,2,3-Trichlorobenzene      | ug/L  | <2.1         | 5.0             | 03/23/17 07:54 |            |
| 1,2,3-Trichloropropane      | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <2.2         | 5.0             | 03/23/17 07:54 |            |
| 1,2,4-Trimethylbenzene      | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <2.2         | 5.0             | 03/23/17 07:54 |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.18        | 1.0             | 03/23/17 07:54 |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,2-Dichloroethane          | ug/L  | <0.17        | 1.0             | 03/23/17 07:54 |            |
| 1,2-Dichloropropane         | ug/L  | <0.23        | 1.0             | 03/23/17 07:54 |            |
| 1,3,5-Trimethylbenzene      | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,3-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,3-Dichloropropane         | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 1,4-Dichlorobenzene         | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 2,2-Dichloropropane         | ug/L  | <0.48        | 1.0             | 03/23/17 07:54 |            |
| 2-Chlorotoluene             | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| 4-Chlorotoluene             | ug/L  | <0.21        | 1.0             | 03/23/17 07:54 |            |
| Benzene                     | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Bromobenzene                | ug/L  | <0.23        | 1.0             | 03/23/17 07:54 |            |
| Bromochloromethane          | ug/L  | <0.34        | 1.0             | 03/23/17 07:54 |            |
| Bromodichloromethane        | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Bromoform                   | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Bromomethane                | ug/L  | <2.4         | 5.0             | 03/23/17 07:54 |            |
| Carbon tetrachloride        | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Chlorobenzene               | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Chloroethane                | ug/L  | <0.37        | 1.0             | 03/23/17 07:54 |            |
| Chloroform                  | ug/L  | <2.5         | 5.0             | 03/23/17 07:54 |            |
| Chloromethane               | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| cis-1,2-Dichloroethene      | ug/L  | <0.26        | 1.0             | 03/23/17 07:54 |            |
| cis-1,3-Dichloropropene     | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Dibromochloromethane        | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Dibromomethane              | ug/L  | <0.43        | 1.0             | 03/23/17 07:54 |            |
| Dichlorodifluoromethane     | ug/L  | <0.22        | 1.0             | 03/23/17 07:54 |            |
| Diisopropyl ether           | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

METHOD BLANK: 1479945

Matrix: Water

Associated Lab Samples: 40147028001, 40147028002, 40147028003, 40147028004, 40147028005, 40147028006, 40147028007, 40147028008, 40147028009, 40147028010, 40147028011, 40147028012, 40147028013

| Parameter                 | Units | Blank Result | Reporting Limit | Analyzed       | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene              | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Hexachloro-1,3-butadiene  | ug/L  | <2.1         | 5.0             | 03/23/17 07:54 |            |
| Isopropylbenzene (Cumene) | ug/L  | <0.14        | 1.0             | 03/23/17 07:54 |            |
| m&p-Xylene                | ug/L  | <1.0         | 2.0             | 03/23/17 07:54 |            |
| Methyl-tert-butyl ether   | ug/L  | <0.17        | 1.0             | 03/23/17 07:54 |            |
| Methylene Chloride        | ug/L  | <0.23        | 1.0             | 03/23/17 07:54 |            |
| n-Butylbenzene            | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| n-Propylbenzene           | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Naphthalene               | ug/L  | <2.5         | 5.0             | 03/23/17 07:54 |            |
| o-Xylene                  | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| p-Isopropyltoluene        | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| sec-Butylbenzene          | ug/L  | <2.2         | 5.0             | 03/23/17 07:54 |            |
| Styrene                   | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| tert-Butylbenzene         | ug/L  | <0.18        | 1.0             | 03/23/17 07:54 |            |
| Tetrachloroethene         | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| Toluene                   | ug/L  | <0.50        | 1.0             | 03/23/17 07:54 |            |
| trans-1,2-Dichloroethene  | ug/L  | <0.26        | 1.0             | 03/23/17 07:54 |            |
| trans-1,3-Dichloropropene | ug/L  | <0.23        | 1.0             | 03/23/17 07:54 |            |
| Trichloroethene           | ug/L  | <0.33        | 1.0             | 03/23/17 07:54 |            |
| Trichlorofluoromethane    | ug/L  | <0.18        | 1.0             | 03/23/17 07:54 |            |
| Vinyl chloride            | ug/L  | <0.18        | 1.0             | 03/23/17 07:54 |            |
| 4-Bromofluorobenzene (S)  | %     | 95           | 70-130          | 03/23/17 07:54 |            |
| Dibromofluoromethane (S)  | %     | 107          | 70-130          | 03/23/17 07:54 |            |
| Toluene-d8 (S)            | %     | 89           | 70-130          | 03/23/17 07:54 |            |

LABORATORY CONTROL SAMPLE: 1479946

| Parameter                   | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane       | ug/L  | 50          | 59.3       | 119       | 70-131       |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | 50          | 44.2       | 88        | 67-130       |            |
| 1,1,2-Trichloroethane       | ug/L  | 50          | 45.8       | 92        | 70-130       |            |
| 1,1-Dichloroethane          | ug/L  | 50          | 58.6       | 117       | 70-133       |            |
| 1,1-Dichloroethene          | ug/L  | 50          | 56.2       | 112       | 70-130       |            |
| 1,2,4-Trichlorobenzene      | ug/L  | 50          | 43.0       | 86        | 70-130       |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | 50          | 42.1       | 84        | 50-150       |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | 50          | 48.5       | 97        | 70-130       |            |
| 1,2-Dichlorobenzene         | ug/L  | 50          | 46.4       | 93        | 70-130       |            |
| 1,2-Dichloroethane          | ug/L  | 50          | 56.3       | 113       | 70-130       |            |
| 1,2-Dichloropropane         | ug/L  | 50          | 51.2       | 102       | 70-130       |            |
| 1,3-Dichlorobenzene         | ug/L  | 50          | 45.5       | 91        | 70-130       |            |
| 1,4-Dichlorobenzene         | ug/L  | 50          | 45.9       | 92        | 70-130       |            |
| Benzene                     | ug/L  | 50          | 56.5       | 113       | 60-135       |            |
| Bromodichloromethane        | ug/L  | 50          | 52.5       | 105       | 70-130       |            |

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### QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

LABORATORY CONTROL SAMPLE: 1479946

| Parameter                 | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Bromoform                 | ug/L  | 50          | 43.9       | 88        | 70-130       |            |
| Bromomethane              | ug/L  | 50          | 39.9       | 80        | 33-130       |            |
| Carbon tetrachloride      | ug/L  | 50          | 54.3       | 109       | 70-138       |            |
| Chlorobenzene             | ug/L  | 50          | 49.3       | 99        | 70-130       |            |
| Chloroethane              | ug/L  | 50          | 46.8       | 94        | 51-130       |            |
| Chloroform                | ug/L  | 50          | 54.6       | 109       | 70-130       |            |
| Chloromethane             | ug/L  | 50          | 39.1       | 78        | 25-132       |            |
| cis-1,2-Dichloroethene    | ug/L  | 50          | 55.7       | 111       | 69-130       |            |
| cis-1,3-Dichloropropene   | ug/L  | 50          | 43.0       | 86        | 70-130       |            |
| Dibromochloromethane      | ug/L  | 50          | 50.5       | 101       | 70-130       |            |
| Dichlorodifluoromethane   | ug/L  | 50          | 31.9       | 64        | 23-130       |            |
| Ethylbenzene              | ug/L  | 50          | 50.7       | 101       | 70-136       |            |
| Isopropylbenzene (Cumene) | ug/L  | 50          | 53.6       | 107       | 70-140       |            |
| m&p-Xylene                | ug/L  | 100         | 106        | 106       | 70-138       |            |
| Methyl-tert-butyl ether   | ug/L  | 50          | 60.1       | 120       | 66-138       |            |
| Methylene Chloride        | ug/L  | 50          | 54.1       | 108       | 70-130       |            |
| o-Xylene                  | ug/L  | 50          | 52.5       | 105       | 70-134       |            |
| Styrene                   | ug/L  | 50          | 52.9       | 106       | 70-133       |            |
| Tetrachloroethene         | ug/L  | 50          | 46.2       | 92        | 70-138       |            |
| Toluene                   | ug/L  | 50          | 49.0       | 98        | 70-130       |            |
| trans-1,2-Dichloroethene  | ug/L  | 50          | 57.0       | 114       | 70-131       |            |
| trans-1,3-Dichloropropene | ug/L  | 50          | 39.8       | 80        | 69-130       |            |
| Trichloroethene           | ug/L  | 50          | 53.5       | 107       | 70-130       |            |
| Trichlorofluoromethane    | ug/L  | 50          | 56.3       | 113       | 50-150       |            |
| Vinyl chloride            | ug/L  | 50          | 50.6       | 101       | 49-130       |            |
| 4-Bromofluorobenzene (S)  | %     |             |            | 103       | 70-130       |            |
| Dibromofluoromethane (S)  | %     |             |            | 109       | 70-130       |            |
| Toluene-d8 (S)            | %     |             |            | 90        | 70-130       |            |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479949 1479950

| Parameter                   | Units | MS                 |             | MSD         |           | MS % Rec | MSD % Rec | % Rec Limits | RPD    | Max RPD | Qual |            |
|-----------------------------|-------|--------------------|-------------|-------------|-----------|----------|-----------|--------------|--------|---------|------|------------|
|                             |       | 40147028003 Result | Spike Conc. | Spike Conc. | MS Result |          |           |              |        |         |      | MSD Result |
| 1,1,1-Trichloroethane       | ug/L  | <0.50              | 50          | 50          | 57.2      | 59.0     | 114       | 118          | 70-134 | 3       | 20   |            |
| 1,1,2,2-Tetrachloroethane   | ug/L  | <0.25              | 50          | 50          | 42.4      | 43.2     | 85        | 86           | 67-130 | 2       | 20   |            |
| 1,1,2-Trichloroethane       | ug/L  | <0.20              | 50          | 50          | 43.3      | 44.4     | 87        | 89           | 70-130 | 3       | 20   |            |
| 1,1-Dichloroethane          | ug/L  | <0.24              | 50          | 50          | 56.5      | 57.9     | 113       | 116          | 70-134 | 2       | 20   |            |
| 1,1-Dichloroethene          | ug/L  | <0.41              | 50          | 50          | 54.8      | 54.4     | 110       | 109          | 68-136 | 1       | 20   |            |
| 1,2,4-Trichlorobenzene      | ug/L  | <2.2               | 50          | 50          | 41.8      | 44.0     | 84        | 88           | 62-139 | 5       | 20   |            |
| 1,2-Dibromo-3-chloropropane | ug/L  | <2.2               | 50          | 50          | 43.1      | 42.0     | 86        | 84           | 50-150 | 2       | 20   |            |
| 1,2-Dibromoethane (EDB)     | ug/L  | <0.18              | 50          | 50          | 46.7      | 48.2     | 93        | 96           | 70-130 | 3       | 20   |            |
| 1,2-Dichlorobenzene         | ug/L  | <0.50              | 50          | 50          | 45.0      | 46.6     | 90        | 93           | 70-130 | 3       | 20   |            |
| 1,2-Dichloroethane          | ug/L  | <0.17              | 50          | 50          | 54.2      | 55.7     | 108       | 111          | 70-130 | 3       | 20   |            |
| 1,2-Dichloropropane         | ug/L  | <0.23              | 50          | 50          | 49.1      | 49.4     | 98        | 99           | 70-130 | 1       | 20   |            |

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### QUALITY CONTROL DATA

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

| Parameter                 | Units | 40147028003 |                | 1479949         |           | 1479950    |          | % Rec | % Rec  | Limits | RPD | Max RPD | Qual |
|---------------------------|-------|-------------|----------------|-----------------|-----------|------------|----------|-------|--------|--------|-----|---------|------|
|                           |       | Result      | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec |       |        |        |     |         |      |
| 1,3-Dichlorobenzene       | ug/L  | <0.50       | 50             | 50              | 45.3      | 46.1       | 91       | 92    | 70-131 | 2      | 20  |         |      |
| 1,4-Dichlorobenzene       | ug/L  | <0.50       | 50             | 50              | 45.1      | 46.5       | 90       | 93    | 70-130 | 3      | 20  |         |      |
| Benzene                   | ug/L  | <0.50       | 50             | 50              | 54.7      | 56.2       | 109      | 112   | 57-138 | 3      | 20  |         |      |
| Bromodichloromethane      | ug/L  | <0.50       | 50             | 50              | 50.2      | 51.1       | 100      | 102   | 70-130 | 2      | 20  |         |      |
| Bromoform                 | ug/L  | <0.50       | 50             | 50              | 42.0      | 43.4       | 84       | 87    | 70-130 | 3      | 20  |         |      |
| Bromomethane              | ug/L  | <2.4        | 50             | 50              | 40.0      | 42.7       | 80       | 85    | 33-130 | 7      | 27  |         |      |
| Carbon tetrachloride      | ug/L  | <0.50       | 50             | 50              | 52.5      | 53.2       | 105      | 106   | 70-138 | 1      | 20  |         |      |
| Chlorobenzene             | ug/L  | <0.50       | 50             | 50              | 47.7      | 48.9       | 95       | 98    | 70-130 | 3      | 20  |         |      |
| Chloroethane              | ug/L  | <0.37       | 50             | 50              | 44.2      | 44.6       | 88       | 89    | 51-130 | 1      | 20  |         |      |
| Chloroform                | ug/L  | <2.5        | 50             | 50              | 51.8      | 53.9       | 104      | 108   | 70-130 | 4      | 20  |         |      |
| Chloromethane             | ug/L  | <0.50       | 50             | 50              | 35.9      | 36.7       | 72       | 73    | 25-132 | 2      | 20  |         |      |
| cis-1,2-Dichloroethene    | ug/L  | <0.26       | 50             | 50              | 53.8      | 55.0       | 108      | 110   | 61-140 | 2      | 20  |         |      |
| cis-1,3-Dichloropropene   | ug/L  | <0.50       | 50             | 50              | 45.3      | 45.8       | 91       | 92    | 70-130 | 1      | 20  |         |      |
| Dibromochloromethane      | ug/L  | <0.50       | 50             | 50              | 48.1      | 50.0       | 96       | 100   | 70-130 | 4      | 20  |         |      |
| Dichlorodifluoromethane   | ug/L  | <0.22       | 50             | 50              | 26.9      | 27.3       | 54       | 55    | 23-130 | 2      | 20  |         |      |
| Ethylbenzene              | ug/L  | <0.50       | 50             | 50              | 49.1      | 50.2       | 98       | 100   | 70-138 | 2      | 20  |         |      |
| Isopropylbenzene (Cumene) | ug/L  | <0.14       | 50             | 50              | 52.0      | 53.4       | 104      | 107   | 70-152 | 3      | 20  |         |      |
| m&p-Xylene                | ug/L  | <1.0        | 100            | 100             | 103       | 105        | 103      | 105   | 70-140 | 2      | 20  |         |      |
| Methyl-tert-butyl ether   | ug/L  | <0.17       | 50             | 50              | 58.9      | 60.6       | 118      | 121   | 66-139 | 3      | 20  |         |      |
| Methylene Chloride        | ug/L  | <0.23       | 50             | 50              | 53.5      | 53.1       | 107      | 106   | 70-130 | 1      | 20  |         |      |
| o-Xylene                  | ug/L  | <0.50       | 50             | 50              | 50.6      | 51.8       | 101      | 104   | 70-134 | 2      | 20  |         |      |
| Styrene                   | ug/L  | <0.50       | 50             | 50              | 51.4      | 52.8       | 103      | 106   | 70-138 | 3      | 20  |         |      |
| Tetrachloroethene         | ug/L  | <0.50       | 50             | 50              | 45.4      | 46.5       | 91       | 93    | 70-148 | 2      | 20  |         |      |
| Toluene                   | ug/L  | <0.50       | 50             | 50              | 47.2      | 48.3       | 94       | 97    | 70-130 | 2      | 20  |         |      |
| trans-1,2-Dichloroethene  | ug/L  | <0.26       | 50             | 50              | 55.6      | 57.3       | 111      | 115   | 70-133 | 3      | 20  |         |      |
| trans-1,3-Dichloropropene | ug/L  | <0.23       | 50             | 50              | 40.6      | 42.6       | 81       | 85    | 69-130 | 5      | 20  |         |      |
| Trichloroethene           | ug/L  | <0.33       | 50             | 50              | 51.8      | 52.5       | 104      | 105   | 70-131 | 1      | 20  |         |      |
| Trichlorofluoromethane    | ug/L  | <0.18       | 50             | 50              | 54.0      | 54.6       | 108      | 109   | 50-150 | 1      | 20  |         |      |
| Vinyl chloride            | ug/L  | <0.18       | 50             | 50              | 48.2      | 49.3       | 96       | 99    | 49-133 | 2      | 20  |         |      |
| 4-Bromofluorobenzene (S)  | %     |             |                |                 |           |            | 101      | 103   | 70-130 |        |     |         |      |
| Dibromofluoromethane (S)  | %     |             |                |                 |           |            | 111      | 110   | 70-130 |        |     |         |      |
| Toluene-d8 (S)            | %     |             |                |                 |           |            | 90       | 90    | 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

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## QUALIFIERS

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

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### 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).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 14-1138 RICE ENTERPRISES

Pace Project No.: 40147028

| Lab ID      | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 40147028001 | MW-1      | EPA 8260        | 250770   |                   |                  |
| 40147028002 | PZ-1      | EPA 8260        | 250770   |                   |                  |
| 40147028003 | MW-2      | EPA 8260        | 250770   |                   |                  |
| 40147028004 | SMW-3     | EPA 8260        | 250770   |                   |                  |
| 40147028005 | MW-4      | EPA 8260        | 250770   |                   |                  |
| 40147028006 | MW-5      | EPA 8260        | 250770   |                   |                  |
| 40147028007 | MW-6      | EPA 8260        | 250770   |                   |                  |
| 40147028008 | MW-7      | EPA 8260        | 250770   |                   |                  |
| 40147028009 | MW-8      | EPA 8260        | 250770   |                   |                  |
| 40147028010 | MW-9      | EPA 8260        | 250770   |                   |                  |
| 40147028011 | GEC TW-4  | EPA 8260        | 250770   |                   |                  |
| 40147028012 | GEC TW-5  | EPA 8260        | 250770   |                   |                  |
| 40147028013 | TB        | EPA 8260        | 250770   |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

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



Project # **WO# : 40147028**

Client Name: Fehr Graham

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 N/A Type of Ice:  Wet  Blue  Dry  None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 20.1 / Corr: \_\_\_\_\_ Biological Tissue is Frozen:  yes

Temp Blank Present:  yes  no  no

Person examining contents:  
Date: 3-21-17  
Initials: [Signature]

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:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.   |
| Chain of Custody Filled Out:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.   |
| Chain of Custody Relinquished:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3. <u>Initials only</u> <u>3-21-17</u>   |
| Sampler Name & Signature on COC:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 4. <u>[Signature]</u>  |
| Samples Arrived within Hold Time:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.   |
| - VOA Samples frozen upon receipt  | <input type="checkbox"/> Yes <input type="checkbox"/> No   | Date/Time: _____   |
| Short Hold Time Analysis (<72hr):  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.   |
| Rush Turn Around Time Requested:   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.   |
| Sufficient Volume:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.   |
| Correct Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.   |
| -Pace Containers Used:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |
| -Pace IR Containers Used:  | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| Containers Intact:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10.  |
| Filtered volume received for Dissolved tests   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 11.  |
| Sample Labels match COC:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12.  |
| -Includes date/time/ID/Analysis Matrix:  | <u>W</u>   |  |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.)   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | 13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |
| exceptions: VOA, Coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                              | Initial when completed: _____ Lab Std #/ID of preservative: _____ Date/Time: _____   |
| Headspace in VOA Vials (>6mm):   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 14. <u>007-3 vials</u> <u>3-21-17</u>  |
| Trip Blank Present:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 15.  |
| Trip Blank Custody Seals Present   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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: [Signature] Date: 3-21-17

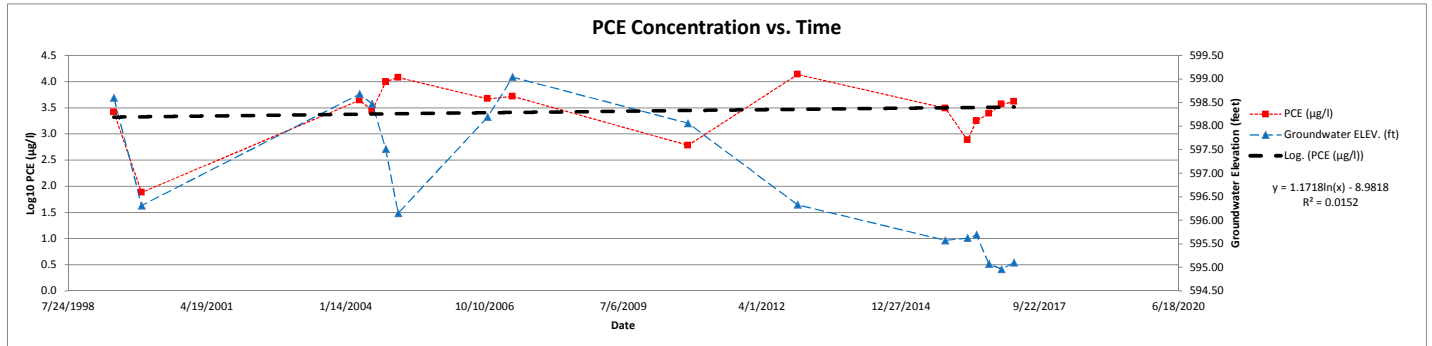
## Appendix D

### Contaminant Trend Analysis

**Groundwater monitoring data (ug/l)**

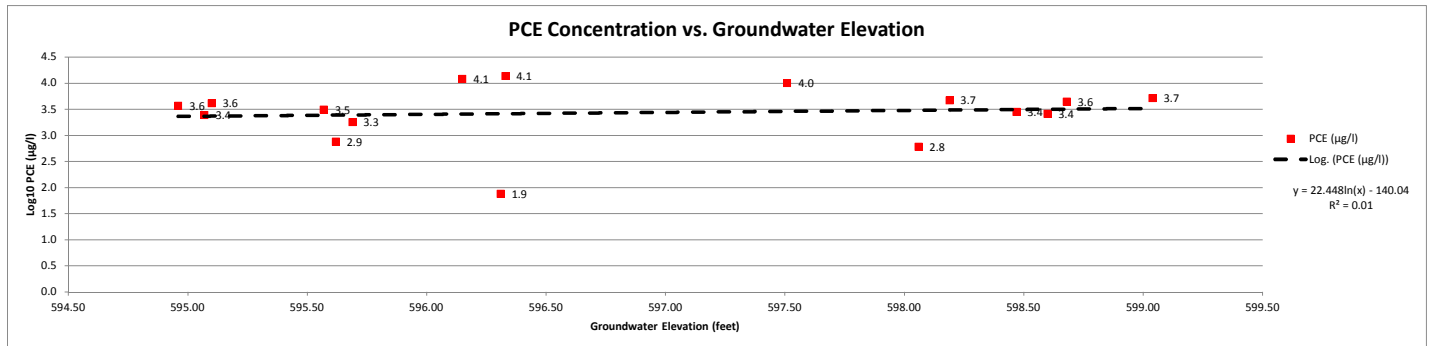
MW 3

| 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     | 595.1     |          |      |
|-------------------------------|-----------|----------|-----------|-----------|------------|-----------|------------|-----------|------------|------------|------------|-----------|-----------|-----------|------------|-----------|----------|------|
| 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 | 3/21/2017 | 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    | 4,150.0   | 13,700.0 | 76.0 |
| Log <sub>10</sub> [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        | 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-log<sub>10</sub>-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.

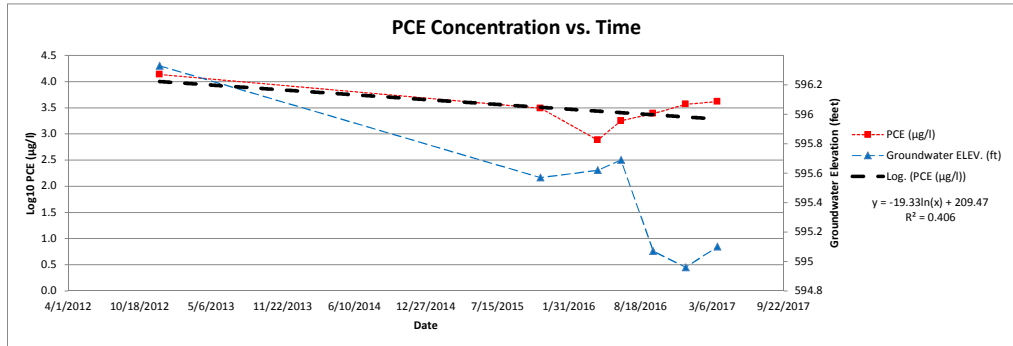


**Groundwater monitoring data (ug/l)**

MW 3

Groundwater ELEV. (ft) 596.33 595.57 595.62 595.69 595.07 594.96 595.1  
 Sampling Dates 12/12/2012 11/12/2015 4/20/2016 6/24/2016 9/22/2016 12/22/2016 3/21/2017

| PCE (µg/l)                    | 13,700.0 | 3,100.0 | 760.0 | 1,790.0 | 2,450.0 | 3,680.0 | 4,150.0 | 13,700.0 | 76.0 |
|-------------------------------|----------|---------|-------|---------|---------|---------|---------|----------|------|
| Log <sub>10</sub> [PCE(µg/l)] |          | 4.1     | 3.5   | 2.9     | 3.3     | 3.4     | 3.6     | 3.6      |      |



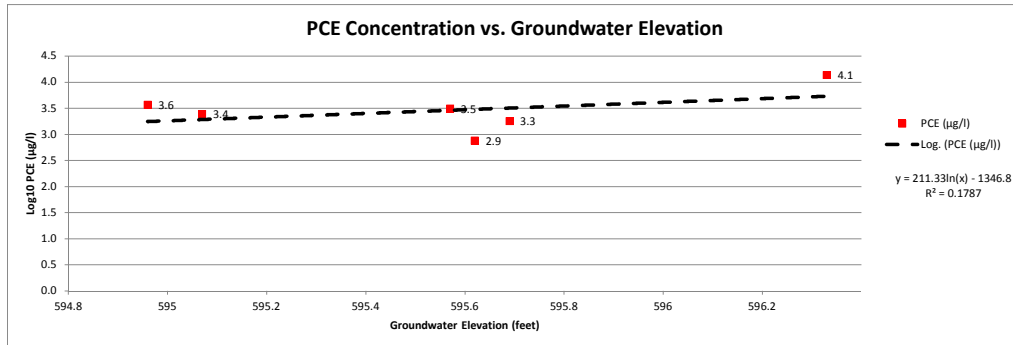
**Notes:**

The logarithm (to the base 10) of the PCE concentration data is plotted as a function of time. The trend line is the semi-log<sub>10</sub>-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.

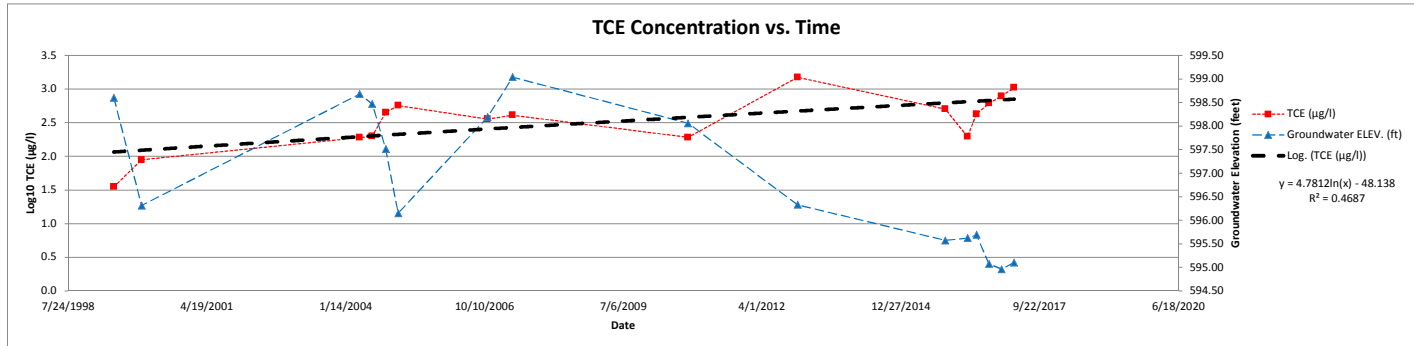
For the graph below, PCE concentrations appear to increase as a function of increasing water levels.



**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     | 595.1     | Max     | Min  |
|-------------------------------|-----------|----------|-----------|-----------|------------|-----------|------------|-----------|------------|------------|------------|-----------|-----------|-----------|------------|-----------|---------|------|
| 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 | 3/21/2017 |         |      |
| 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      | 1,050.0   | 1,500.0 | 35.3 |
| Log <sub>10</sub> [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        | 3.0       |         |      |



**Notes:**

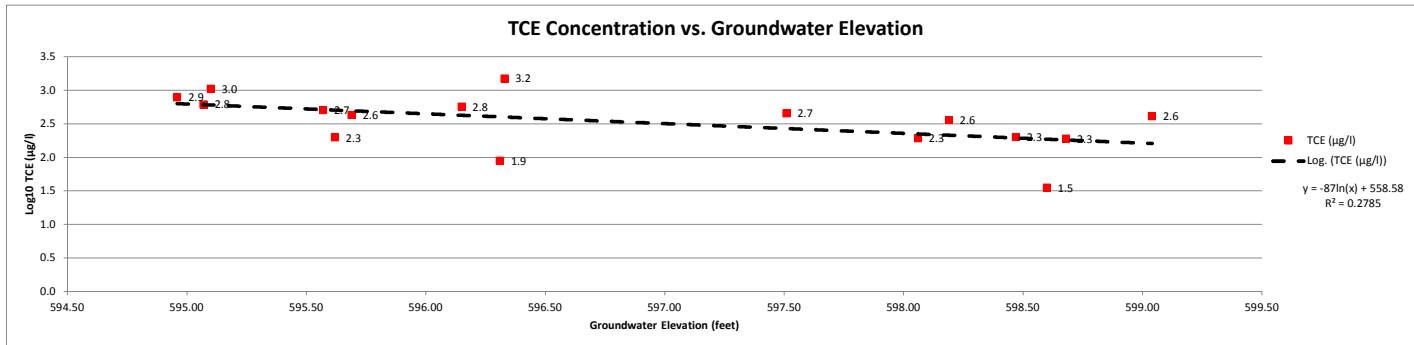
The logarithm (to the base 10) of the TCE concentration data is plotted as a function of time.

The trend line is the semi-log<sub>10</sub>-transformed regression line.

Groundwater elevation data is superimposed on the concentration data.

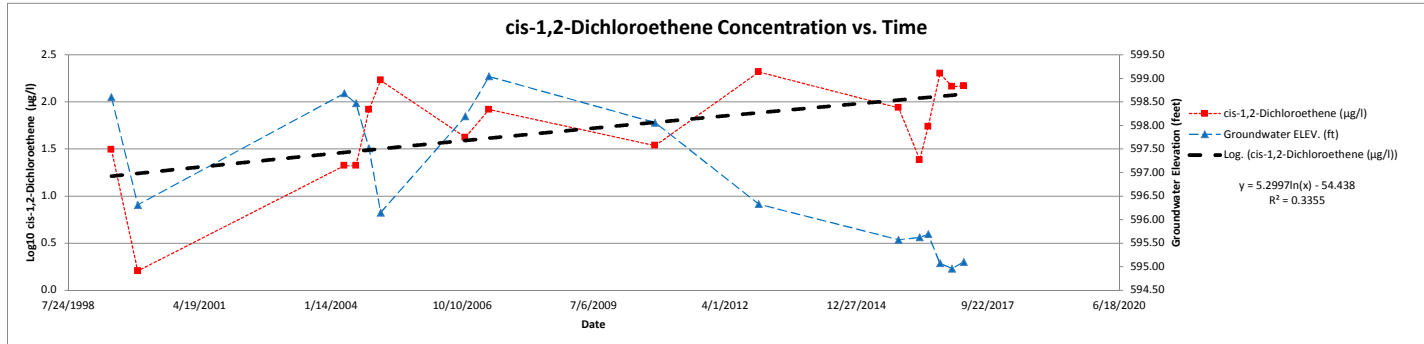
For the graph above, TCE concentrations appear to be increasing, and there seems to be a decreasing water level with time.

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     | 595.1     |       |     |
| 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 | 3/21/2017 |       |     |
|  |           |          |           |           |            |           |            |           |            |            |            |           |           |           |            | Max       | Min   |     |
| cis-1,2-Dichloroethene (ug/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      | 148.0     | 208.0 | 1.6 |
| Log <sub>10</sub> (cis-1,2-Dichloroethene)(ug/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        | 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.

