

KPRG and Associates, Inc.

COMPRENHENSIVE SITE INVESTIGATION REPORT

NATURAL CLEANERS 8828 N. PORT WASHIGNTON ROAD BAYSIDE, WISCONSIN

BRRTS # 02-41-548572 FID # 341140250

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1.0 INTRODUCTION

1.1 Site Name and Location

The subject site is the Natural Cleaners facility located at 8828 N. Port Washington Road in Bayside, Wisconsin. This property is located within Milwaukee County in the SW ¼ of the SE ¼ of Section 05, Township 08 North, Range 22 East. A general site location map is provided on Figure 1. A site map showing sample locations is provided on Figure 2.

1.2 Contact Information

<u>Property Owner</u> The current property owner is:

> Mr. Peter Ogden Ogden & Company, Inc. 1665 North Water Street Milwaukee, WI 53202

<u>Responsible Party</u> The responsible party is:

> Ms. Marilyn Fleming Former Bayside Natural Cleaners N40W27880 Glacier Road Pewaukee, WI 53072

Environmental Consultant

The environmental consulting contact for this project is:

KPRG and Associates, Inc. 14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Contact: Mr. Patrick Allenstein, P.G. Phone No: 262-781-0475

1.3 Background Information

The building within which Natural Cleaners (NC) is located is a commercial use, onestory brick/frame structure with a basement and several tenants. The surrounding land use is:

- North Commercial
- West Port Washington Road and Commercial
- East Residential

• South – Commercial

The former dry cleaning machine used tetrachloroethene, also known as perchloroethene (PCE), as the solvent and was located above a utility room of the basement which includes a furnace and hot water heater. Visual inspection at the rear of the facility from where the product was delivered and the basement area beneath the dry cleaning machine did not reveal any staining or other indications of spillage. Use of the dry cleaning machine was discontinued prior to 2008 and was removed from the property circa 2010. Natural Cleaners sold the business circa 2011 and the suite was redeveloped. It is noted that an unrelated party subsequently opened a drop off location for dry cleaning also named Natural Cleaners in a separate portion of the same building. This facility does not perform dry cleaning on the property.

A site scoping study was performed by KPRG and Associates, Inc. (KPRG) in December 2006. Two interior soil borings (GP-1 and GP-2) and two exterior soil borings (GP-3 and GP-4) were advanced to obtain representative soil samples for chemical analysis from these areas. Based on the results of the focused site scoping study it was concluded that there had been a release of PCE to soil associated with the dry cleaning operations at this location. The requisite notification was made to the Wisconsin Department of Natural Resources (WDNR) and the site was issued BRRTS number 02-41-548572 and FID number 341140250. The site was also accepted into the Dry Cleaner Environmental Response Fund (DERF) program. KPRG initiated a site investigation (SI). At the conclusion of the initial SI work, the WDNR requested additional work to further define the extent of impacts. KPRG met with the WDNR and initiated additional work including several additional Work Plans and SI Addendums.

The following is a summary of all work completed in accordance with the WDNR request.

1.4 Organization of Site Investigation Report

The remainder of this site investigation report is structured to fulfill requirements outlined in NR 716.15. Section 2.0 documents the field activities performed as part of this portion of site investigation. Section 3.0 presents site specific geology/hydrogeology and Section 4.0 presents a summary and interpretation of the site investigation data. An evaluation of potential migration/exposure pathways is provided in Section 5.0 followed by conclusions and recommendations in Section 6.0. References are provided in Section 7.0.

2.0 DOCUMENTATION OF FIELD ACTIVITIES: INITIAL SI 2009

As part of the approved Site Investigation Work Plan, KPRG advanced geoprobe soil borings to obtain additional soil samples and installed and sampled five NR 141 monitoring wells and one temporary monitoring well. The NR 141 monitoring wells were also tested to obtain estimates of formation hydraulic conductivity in the vicinity of the well screens. Two sub-slab vapor samples were also collected from vapor probes installed in interior borings. The field and sampling activities are documented below.

2.1 Soil Borings

As part of the initial SI, a total of 11 soil borings were advanced using various methods on and off the property at locations shown on Figure 2. Borings GP-5 through GP-10, MW-1 through MW-4, and MW-2D, were advanced using a truck-mounted geoprobe which utilizes a hydraulically driven, direct push sampling technique. Interior borings (GP-7 through GP-9) used geoprobe hand tools. Borings which were converted to monitoring wells are discussed in Section 2.2. Soil sample cores from all borings were obtained on a continuous basis, screened in the field for total volatile organic vapors using a PID and visually logged using the Unified Soil Classification System (USCS). Copies of soil boring logs and associated field screening measurements are provided in Appendix A. Upon drilling, boring GP-10 was completed as a temporary 1-inch well in accordance with the approved Work Plan. The remainder of the borings were abandoned with granular bentonite to the surface and hydrated. These borings were then capped with material similar to the surrounding area (i.e. concrete, asphalt).

Based on the results of the field screening, a total of 16 soil samples were collected and analyzed for VOCs. In addition, a subset of 3 soil samples was collected from across the site for analysis of Total Organic Carbon (TOC).

Appropriate sample aliquots for VOCs were placed into laboratory prepared containers, preserved with methanol and placed on ice. TOC samples were transferred directly into laboratory prepared containers and placed on ice. All samples were transported under a completed chain-of-custody (COC) and delivered to Pace Analytical Services, Inc. for analysis of VOCs using Method 8260B and TOC using Method 9060.

2.2 Monitoring Well Installation/Groundwater Sampling

2.2.1 Monitoring Well Installation

Four shallow monitoring wells (MW-1, MW-2, MW-3 and MW-4) and 1 deep monitoring well/piezometer (MW-2D) were installed at locations shown on Figure 2. The wells were drilled using the hollow stem auger drilling method. Shallow wells extended to approximately 25 feet below ground surface (bgs) and the deep well extended to approximately 45 feet bgs. The vertical soil profile was sampled on a continuous basis, logged and screened in the field for total volatile organic vapors using a PID. Completed boring logs are provided in Appendix A.

Once the target depth was reached, each well was constructed of 2-inch, innerdiameter PVC (schedule 40) casing with 10-feet of 0.010 factory slot screen for the shallow wells and 5 feet of screen for the deep well. Each well was completed by placing a 10/20 gradation of silica sand filter pack to approximately one foot above the top of the screen followed by approximately one foot of fine sand (100 sieve). A minimum 2-foot bentonite pellet seal was placed and hydrated atop the filter sand. The remainder of the annulus was filled with granular bentonite. All surface completions were flush mount well vaults anchored with concrete. Copies of well construction summaries are included in Appendix A. All drill cuttings were containerized in labeled 55-gallon drums and temporarily staged on the south end of the property for subsequent proper disposal.

Monitoring wells were developed using the purge and bail method. Purging continued until a minimum of five casing volumes of water were removed or until field parameters of pH, specific conductance and temperature showed stable conditions and relatively turbid free groundwater. Purge water was also containerized in labeled 55-gallon drums for subsequent proper disposal.

The monitoring wells were surveyed by a Wisconsin licensed surveyor. The survey data are provided in Appendix B.

2.2.2 Groundwater Sampling Procedures

Groundwater samples were collected from the monitoring wells using the following procedures:

- The water level elevation was measured using an electronic water level probe. These measurements are summarized in Table 1.
- Initial groundwater measurements of dissolved oxygen (DO) and oxidation-reduction potential (ORP) were obtained down-well.
- Three casing volumes of water were purged from the well using a dedicated bailer at which point field parameter measurements of pH, specific conductivity and temperature were initiated. Purging continued until stable conditions were documented. If the well bailed dry before three casing volumes could be purged, the well was allowed to recover at which point field parameter measurements were initiated.
- Post purging groundwater measurements of dissolved oxygen (DO) and oxidation-reduction potential (ORP) were obtained down-well and continued until conditions stabilized.
- Samples were collected for analysis with dedicated bottom filling bailers. The water was transferred directly into laboratory prepared containers, preserved as necessary, and placed on ice.

• One duplicate was collected for quality assurance/quality control purposes as specified in the Work Plan. All samples were transported under a completed COC and delivered to Pace Analytical Services, Inc. for analysis.

2.2.3 Geoprobe Groundwater Sampling

Upon completion of boring GP-10, a 0.75-inch PVC well was installed consisting of 10 feet of 0.010-inch factory slot screen and 5 feet of riser. A sand pack was placed around the screen to a depth of 4 feet bgs above which bentonite chips were placed and hydrated. A flush mount cover was placed over the top of the well and secured with concrete. Once sufficient water entered the well, a micro-bailer was used to purge and sample the well using the above procedures as appropriate. The sample was placed directly into laboratory prepared containers, preserved with hydrochloric acid and placed on ice. The groundwater sample was analyzed for VOCs.

2.2.4 <u>Slug Testing</u>

Slug tests were performed on monitoring wells (MW-1, MW-2, MW-2D, MW-3 and MW-4) to provide an estimate of aquifer hydraulic conductivity in the vicinity of each screened interval (Table 2). The tests were performed using an In-Situ Mini-Troll electronic transducer and data logger system. The transducer was placed down the well. A slug of solid PVC pipe was then placed down the well to displace water upward in the casing. Simultaneously with the introduction of the slug, the transducer was activated and water level measurements were recorded as the displaced water column re-equilibrated to static, or near static conditions, at which point the transducer was turned off. The test was then repeated by removing the slug from the well which in turn dropped the water level in the casing. The transducer was entered into AQTESOLV for Windows Version 3.0 for solution calculation using the Bouwer and Rice (1979) method. Only the slug-out tests were evaluated for the wells in which the screen straddles the water table.

2.3 Vapor Probe Installation/Sampling

To assist in the soil gas/vapor intrusion exposure pathway evaluation, two deep soil gas probes were installed adjacent to interior soil borings GP-7 and GP-8. A 3/8-inch hole was drilled through the concrete followed by a 1-inch diameter hole to just less than 2inch depth. An Entech Leak-Tight Slab-Gas Sampler probe following a stop washer was then be placed down hole and grouted in perpendicular to the concrete surface using a probe alignment insert and plate. A slab probe vapor plug was then inserted to seal the sampler and the grout was allowed to dry for several days. The sampler was installed flush with the surface of the concrete and sealed when not in use. A fitting was attached to the gas probes and a soil gas sample was collected directly into a Summa canister. The samples were collected as "grab" samples and not 8-hour composites. The soil gas samples were sent to Pace Analytical for analysis of VOCs using method TO15.

2.4 Sub-Slab Depressurization System Installation

Part of the remediation strategy included the installation of a sub-slab depressurization system (SSDS) to prevent volatile organic vapors accumulated beneath the concrete floor of the facility from migrating into the interior of the building. This approach for addressing the soil vapor intrusion pathway was agreed upon by the WDNR. The system was targeted to provide sub-slab ventilation for building within a radius determined by the soil gas sampling.

Two depressurization points were required and installed in order to sufficiently depressurize the slab to encompass the soil impacts (Figure 3). The depressurization points were installed within a utility room beneath the former dry cleaning machine, one near the center of the building width (DP-1) and the other at the edge of the building over the French drainage system (DP-2). At each depressurization point location, an approximate 5-inch diameter core was drilled through the slab. A 4-inch diameter, Schedule 40 PVC pipe was stubbed into each core hole where the sub-blab material was removed to form a small vacuum chamber. The pipe extended out the building wall and past the roof soffit at which point the extracted vapors are vented to the atmosphere. An inline RadonAway 145 fan was installed approximately half-way up the wall. Based on discussions with the venting contractor the specified RadonAway RP265 fan with 4-inch piping under the anticipated conditions was expected to provide an air flow of between 110 and 150 cubic feet per minute (CFM). The fans were hard-wired to the main power control panel by a certified electrician.

To verify that the system was providing sub-slab depressurization over the entire targeted footprint beneath the floor, micro-manometer testing was performed from six locations (Figure 3). These spot tests were collected from approximately 5', 20' and 40' away (where possible) from depressurization point DP-1. The goal was to document negative pressure measurements, or vacuum. Vacuum values at all locations ranged from 0.002 to 0.5 inches of water column. The fan was operating at 1.1 inches of water column with a flow rate of approximately 115 cubic feet per minute. These measurements verify that the targeted area of the sub-slab beneath the building is actively under negative pressure, or vacuum. The supporting documentation is provided in the closure package.

3.0 DOCUMENTATION OF FIELD ACTIVITIES: 2014 SITE ADDENDUM

As part of the supplemental site investigation work, KPRG advanced seven soil borings (GP-11 through GP-17), installed five monitoring wells (GP-11, GP-12, GP-13, GP-16 and GP-17), collected two rounds of groundwater samples from all monitoring wells (eleven in total), collected water samples from two building sump crocks, and collected ambient air samples from within the basement of the building. The field and sampling activities are documented below.

3.1 Soil Borings

As part of this additional SI, a total of seven additional soil borings were advanced on and off the property. As shown on Figure 2, three borings (GP-11, -12 and -13) were advanced on the property to the east and four on the subject site (GP-14 through GP-17). The borings were advanced using the same techniques discussed above. Copies of soil boring logs and associated field screening measurements are provided in Appendix A. Borings GP-11, GP-12, GP-13, GP-16 and GP-17 were converted to monitoring wells are discussed in Section 2.2. The remainder of the borings were abandoned with granular bentonite to the surface and hydrated. These borings were then capped with material similar to the surrounding area (i.e. concrete, asphalt).

In accordance with the approved work plan and based on the results of the field screening, a total of 5 soil samples were collected from soil borings GP-11 through GP-15. The soil samples were analyzed for chlorinated volatile organic compounds (CVOCs).

Appropriate sample aliquots were placed into laboratory prepared containers and placed on ice. All samples were transported under a completed Chain-of-Custody (COC) and delivered to Pace Analytical Services, Inc. for analysis of CVOCs using Method 8260B.

3.2 <u>Temporary Monitoring Well Installation</u>

Five additional shallow temporary monitoring wells were installed on and off the property at locations shown on Figure 2. Upon completion, the borings mentioned above, GP-11, GP-12, GP-13, GP-16 and GP-17, were completed as monitoring wells in accordance with the approved Work Plan. Completed well construction summary is provided in Appendix A.

Once the target boring depth was reached, each well was constructed of 0.75-inch diameter, schedule 40, PVC casing, with 10-feet of 0.010-inch factory slot screen. The wells were completed by placing a 10/20 gradation of silica sand filter pack to approximately one foot above the top of the screen followed by approximately one foot of fine sand (100 sieve). A minimum 2-foot bentonite seal was placed and hydrated atop the filter sand. The remainder of the annulus was filled with granular bentonite and hydrated. Surface completions were flush mount well vaults anchored within

concrete. All drill cuttings were containerized in labeled 55-gallon drums and temporarily staged on the east side of the property for subsequent proper disposal.

The wells were developed using the pump and purge method. Purging continued until the well was dry or until field parameters of pH, specific conductance and temperature showed stable conditions. Purge water was also containerized in labeled 55-gallon drums for subsequent proper disposal.

3.3 Monitoring Well Groundwater Sampling

Two rounds of quarterly groundwater samples were collected from all monitoring wells associated with the site. A total of 24 samples (11 wells plus a duplicate times 2 rounds) were collected using the procedures discussed above in Section 2.2.2.

3.4 Building Sump Crock Water Sampling

Three building sumps were checked for the presence for water. All three appeared to have water, however, the sump in the middle of the building was sealed with no access points and was therefore not sampled. The water in the remaining two sumps was sampled and labeled Sump-N and Sump-S. A water sample was collected from each sump crock using a disposable bailer. Water was transferred directly into laboratory prepared containers and placed on ice. The sump water samples were transported under a completed COC and delivered to Pace Analytical laboratory for CVOC analysis.

3.5 Indoor Ambient Air Sampling

The work plan included the collection of four indoor air samples IA-1 through IA-4 (see Figure 2). The samples were collected using laboratory prepared Summa canisters. The canisters are evacuated and placed under a vacuum which the user then opens the valve, allowing the air sample enter the canister. The canisters were supplied with laboratory installed metering devices allowed them to be opened to allow the sample to be collected over a 24-hour period.

Summa canisters for samples IA-1 through IA-4 were placed on the basement floor and spaced through-out the building. Sample IA-1 was placed at the north end of the basement, in empty Suites 1 and 2. Sample IA-2 was placed in the basement within the utility room below the former location of the dry cleaners. Sample IA-3 was placed in the basement, across the hall from the utility room in Suite 8. Sample IA-4 was placed at the south end of the basement, in the storage area Suite 16. The canisters were deployed on September 26 and retrieved on September 27, 2013. The ambient air samples were transported under a completed COC to Pace Analytical for analysis of VOCs using method TO15.

4.0 DOCUMENTATION OF FIELD ACTIVITIES: 2015 SITE ADDENDUM

4.1 Groundwater Sampling

A groundwater sample was collected from well GP-16 per the approved work plan (see Figure 2). The sample was collected and handled as documented above in Section 2.2.2.

4.2 Vapor Probe Installation and Sampling

On October 1, 2015, two deep soil vapor probes, GP-18/V and GP-19/V, were installed in accordance with the approved work plan near the sump discharge corridor along the southern boundary of the property (see Figure 2). Copies of the boring logs and vapor probe construction summaries are included in Attachment 1. The probes were leak tested using the helium shroud method and following verification of proper seal, each vapor probe was sampled using laboratory prepared Summa canisters with one-hour flow control valves. A polyethylene sampling tube was then connected from the probe sampling fitting to the Summa canister. The canister valve was opened and vapor sample was collected. Once the canister was full, the valve was closed and the canister was disconnected from the sampling tube. The Summa canister was then shipped under a properly completed chain-of-custody to Pace Analytical laboratory for analysis of chlorinated volatile organic compounds.

4.3 Indoor Air Sampling

The work plan included a second round sampling of the four indoor air samples IA-1 through IA-4. The samples were collected using laboratory prepared Summa canisters. The canisters were supplied with laboratory installed metering devices allowed them to be opened to allow the sample to be collected over a 24-hour period.

The canisters were deployed on October 1 and retrieved on October 2, 2015. The ambient air samples were transported under a completed chain-of-custody to Pace Analytical for analysis of chlorinated volatile organic compounds using method TO15.

5.0 DOCUMENTATION OF FIELD ACTIVITIES: 2018 SITE ADDENDUM

5.1 Sub-Slab Vapor Probe Installations/Sampling

On March 31, 2017, KPRG installed four sub-slab vapor probes SV-1, SV-2, SV-3, and SV-4 at locations shown on Figure 2. Cox-Colvin vapor pins were installed through the concrete floor per manufacturer directions and were tested for tightness using a helium gas shroud method. During testing at vapor probe SV-4, water was drawn up while the probe was under vacuum. As a result, SV-4 was not able to be sampled. There were no water issues at the remaining probes. As requested by the WDNR, the existing sub-slab depressurization system (SSDS) was shut down prior to sample collection. Once the connections at SV-1, SV-2 and SV-3 were determined to be air tight, sub-slab vapor samples were collected at each vapor point using a six-liter, Summa Canister with 1-hour flow controller. Samples were sent under completed chain-of-custody to a Pace Analytical laboratory for analysis of chlorinated volatile organic compounds (CVOCs) using Method TO15.

5.2 Check Working Condition of Existing SSDS

As discussed in Section 2.4 above, KPRG installed a SSDS in the vicinity of the defined PCE vapor impacts and conducted a field extension test verifying that the system had influence over the area of concern. As requested by the WDNR, an additional round of extension testing was completed on September 20, 2017. As shown on Figure 2, the field testing confirmed the previous conclusion that the system depressurization covers the area of concern. In addition and as requested by the WDNR, KPRG measured the exhaust vapors of the system with a photo-ionization detector (PID). There were no PID readings above 0.0 ppm observed that day.

5.3 Additional Soil Borings

KPRG advanced soil borings, GP-20 through GP-24, MW-3D and MW-5 at locations shown on Figure 2, with a Geoprobe and extended to 12 feet below ground surface (bgs). Borings MW-3D and MW-5 were also advanced with a Geoprobe and then followed by hollow-stem augers and extended to 50 and 25 feet bgs, respectively. Continuous soil core samples were collected from all borings. Soils were field screened with a PID for total organic vapors and logged using the Unified Soil Classification System (USCS). Borings MW-3D and MW-5 were converted into NR141 compliant monitoring wells (discussed below) and the remainder of the borings were abandoned with granular bentonite, hydrated and patched to match the surface condition. Copies of the boring logs, abandonment forms are included in Attachment 1.

In accordance with the approved work plan and based on the results of the field screening, two soil samples were collected from each boring except for MW-3D which was located adjacent to MW-3. The soil samples were analyzed for chlorinated volatile organic compounds (CVOCs). Appropriate sample aliquots were placed into laboratory prepared containers and placed on ice. All samples were transported under a completed

chain-of-custody and were transported to Pace Analytical Services, Inc. for analysis of CVOCs using Method 8260B.

5.4 Additional Well Installations and Groundwater Sampling

As noted above, and in accordance with the approved work plan, two additional wells were installed using hollow stem auger drilling. The well locations are shown on Figure 2. Well MW-5 was constructed as a water table monitoring well with a depth of 25 feet with 10 feet of screen. Well MW-3D was constructed as a piezometer with a depth of 48 feet bgs with 5 feet of screen. Each well was constructed with 2-inch PVC and 0.010 slot screen. The wells were completed by placing a silica sand filter pack to approximately two feet above the top of the screen followed by a 2-foot bentonite seal that was placed and hydrated atop the filter sand. The remainder of the annulus was filled with granular bentonite and hydrated. Surface completions were flush mount well vaults anchored within concrete. All drill cuttings were containerized in labeled 55-gallon drums and temporarily staged on the east side of the property for subsequent proper disposal.

The wells were developed using the pump and surge method. Purging continued until the well was dry or until field parameters of pH, specific conductance and temperature showed stable conditions. Purge water was also containerized in labeled 55-gallon drums for subsequent proper disposal. Monitoring well construction and development forms are included in Appendix A.

Upon completion, the well locations and top of casing elevations were surveyed by a Wisconsin licensed surveyor.

Groundwater samples were collected per the approved work plan. One round of groundwater samples were collected from all monitoring wells associated with the site followed by a confirmation round of the two new wells MW-3D and MW-5. The samples were collected for analysis with dedicated bottom filling bailers and transferred directly into laboratory prepared containers, preserved as necessary, and placed on ice. Samples were shipped to Pace Analytical laboratory under completed chain-of-custody procedure for analysis of chlorinated volatile organic compounds.

6.0 <u>GEOLOGY/HYDROGEOLOGY</u>

6.1 Geology

The regional geology consists of unconsolidated glacial overburden which overlies Silurian dolomite bedrock. Depth to bedrock beneath the site is not documented, however, based on regional geologic interpretations, the depth to bedrock is anticipated to be approximately 100 feet below ground surface. The dolomite in the area is underlain by the Maquoketa Shale which is mapped as a regional aquiclude. Beneath the Maquoketa Shale are the Cambro-Ordovician sandstone and dolomite units which form the primary groundwater aquifer for large municipal and industrial uses in the area.

Relative to site specific conditions, a review of the site specific boring logs indicates some gravelly fill beneath the concrete floor slab of the building underlain by brown clay to a depth of 3 feet bgs. Exterior borings encountered sand and gravel fill beneath the asphalt grading from black to tan to approximately 3 feet bgs. A brown to dark brown silty clay extends approximately to 3 to 5 feet bgs and is underlain by brown clay which extends to approximately 17 feet bgs. This is underlain by gray clay with some silt to at least 45 feet bgs which was the deepest extent of the site investigation borings. Geologic cross-sections illustrating the stratigraphy are provided on Figure 4. The boring logs are provided in Appendix A.

6.2 Hydrogeology

The primary regional aquifers are within the deep Cambro-Ordovician sandstone and dolomite units beneath the Maquoketa Shale, however, some potable water may also be obtained locally from the Silurian Dolomite unit. Regional groundwater flow in these deeper aquifers is anticipated to be in an easterly direction, towards Lake Michigan. This flow, however, may be locally influenced by groundwater pumping.

Water level measurements for the shallow groundwater flow system are summarized in Table 1. It is noted that the water levels obtained in January, 2008 may not have yet stabilized after well installation and development as evidenced by the depth to water measurements (the wells are in clayey materials which do not readily yield water). The water table beneath the facility generally occurs from approximately 4 to 8 feet bgs. A groundwater flow map for the most recent sampling event is provided on Figure 5. The flow map indicates a convergent flow pattern beneath the site with flow moving offsite to the southeast. The horizontal hydraulic gradient generally ranges from 0.091 ft/ft down the center of the convergence to 0.235 ft/ft down the north flank of the convergence based on the most recent data used for Figure 5.

Reviewing the water level data from the well cluster MW-2/MW-2D (see Table 1) indicates that there is a downward vertical component of flow beneath the site with a vertical hydraulic gradient ranging from 0.938 ft/ft to 0.919 ft/ft based on the two most

recent rounds of water elevation data. This strong gradient suggests a low vertical permeability within the saturated clay materials.

As noted in Section 2.2, slug tests were performed to obtain estimates of formation hydraulic conductivity. The results of the single well tests are summarized in Table 2. The hydraulic conductivity in the shallow wells ranged from 1.49 x 10^{-6} cm/sec (or 0.004 ft/day) at MW-3 to 3.26 x 10^{-6} cm/sec (or 0.009 ft/day) at MW-1.

Assuming a horizontal hydraulic gradient ranging from 0.091 ft/ft to 0.235 ft/ft, a hydraulic conductivity range from 1.49 x 10^{-6} cm/sec to 3.26 x 10^{-6} cm/sec, and an effective porosity of 0.40 for silty clay till materials (Fetter, 1980; Freeze and Cherry, 1979), the groundwater seepage velocity is estimated, using the Darcy equation, to range from 3.39 x 10^{-7} cm/sec (or approximately 9.61 x 10^{-4} ft/day) to 1.92 x 10^{-6} cm/sec (or approximately 5.44 x 10^{-3} ft/day).

7.0 DATA SUMMARY AND INTERPRETATIONS

7.1 Soil Sample Data

As part of the complete SI including the site scoping study, 35 soil samples were collected from soil boring locations as shown on Figure 2. As noted above soil samples were analyzed for either VOCs or CVOCs and a subset of 3 soil samples were analyzed for TOC. The data are discussed separately below. Complete data packages have previously been submitted to WDNR.

7.1.1 <u>CVOC Soil Data</u>

The site investigation CVOC soil data are summarized in Table 3 which includes only the detected compounds. All other VOCs were not detected in any of the samples. Full analytical data packages were previously provided to WDNR.

A review of the data in Table 3 indicates that the highest PCE concentrations were detected in the 8-10 feet depth interval in soils samples from locations GP-5, MW-2 and GP-21. The impacts are located at or below the water table and outside of the dry cleaning facility where product delivery/pickup would have occurred. VOC concentrations diminish quickly with distance away from this location. Soil samples from locations GP-1, GP-2, and GP-7, all of which are located within the basement utility room area immediately beneath the former location of the dry cleaning machine, showed PCE to range from 800 ug/kg to 170 ug/kg. Samples from other basement area locations did not detect any VOCs in soils. This distribution suggests that the main source area of PCE in soil is associated with past handling practices which may have occurred during delivery/pickup of the dry cleaning solvent. Furthermore, the presence of degradation products TCE, cis-1,2 DCE and vinyl chloride at boring locations surrounding MW-2 (source area) indicate reductive dechlorination taking place.

Isoconcentration maps for PCE, TCE and cis-1,2 DCE in soils (0-4 ft bgs) are provided on Figures 6-8. As there are no direct contact exceedances in the near surface soils, the analytes are mapped based on their respective soil-to-groundwater pathway RCLs. At shallower depths (0-4 feet bgs), PCE soil-to-groundwater RCL exceedances were found at GP-1, GP-2, GP-3, GP-4, GP-5, GP-7, MW-2, GP-20, GP-21, GP-22. GP-23, GP-24, and MW-5. Relative to the vertical extent of impacts, based on the existing data and the documented depth of groundwater beneath the site, it is apparent that the soil impacts extend to the saturated zone. However, the impacts do not extend deeper than approximately 15 feet bgs. This is documented by the soil sample from location MW-2 collected from the 16 feet bgs to 18 feet bgs depth interval which indicated no detections of VOCs.

7.1.2 TOC Soil Data

To estimate the naturally occurring organic carbon in site specific soils, a subset of three soil samples (GP-6, MW-1 and MW-3) were analyzed for TOC. The TOC data was generated to assist in the calculation of the SSRCLs (a process that is no

longer relevant). The data are included in Table 3. No VOCs were detected in samples GP-6 and MW-1. Both cis-1,2 DCE and TCE were detected in sample MW-3. TOC concentrations in samples GP-6 and MW-1 were noted to range from 3,300 to 17,000 mg/kg, respectively. The average TOC for these two values is 10,150 mg/kg. The TOC concentration from sample MW-3 was not used in the average estimation since it was found to also be impacted by cis-1,2 DCE and TCE which makes the associated TOC value not representative of native conditions.

7.2 Groundwater Sample Data

A total of eleven rounds of groundwater monitoring were completed for the site. The first round of groundwater monitoring in 2008 was comprised of samples from the initial five monitoring wells. The number of monitoring wells gradually increased over time, totaling thirteen monitoring wells in 2013, and were eventually analyzed for CVOCs only. The initial samples were analyzed for VOCs and field parameters of pH, specific conductivity, temperature, DO and ORP, as summarized in Table 4. In addition, two rounds of samples were analyzed for natural attenuation parameters of nitrate, nitrite, sulfide, sulfate, TOC and dissolved gases ethene, ethane and methane (Table 5). The data is tabulated along with applicable NR 140 Preventative Action Limits (PALs) and Enforcement Standards (ESs) for comparison purposes. Figures 9, 10, and 11 provide isoconcentration maps of PCE, TCE, and cis-1,2-DCE groundwater impacts, respectively.

Based on a review of Tables 4 and 5, the following observations are made relative to NR 140 standard exceedances:

- The most recent round of groundwater sampling (May 2017) showed exceedances of ESs for dry cleaning related impacts were limited to location MW-2. MW-2 is the shallow well located immediately outside the back door of the dry cleaning facility which is also the area defined with the highest soil impacts (see Section 4.1).
- Historical ES exceedances were at locations MW-3 (vinyl chloride, January 2008) and GP-16 (vinyl chloride (VC), November 2013 and February 2014). Continued groundwater sampling events at both MW-3 and GP-16 showed non-detections for dry cleaning related impacts. Additionally, there were no detections of either PCE or TCE in either round of sampling at GP-16. There were no detections of any VOCs in the overlying soils. This location is upgradient of the defined source area and off-site within a former roadside drainage of Port Washington Road. Therefore, these groundwater detections are not believed to be the result of the historic release associated with this investigation.
- The suite of VOCs detected at well MW-2 includes PCE as well as its breakdown products of TCE, cis-1,2 DCE and VC. This suggests that

natural degradation of the PCE through reductive dechlorination is occurring at the site.

- Monitoring well MW-4, located on the south side of the site, did display methyl-tert butyl ether (MTBE) detections during the second through eighth round of sampling with the data from the fourth through eighth round being above the PAL for MTBE. This is not a compound associated with dry cleaning operations. The property immediately south of the site includes a gasoline station. MTBE is an additive to gasoline and it is believed to be associated with this off-site source and not to the former dry cleaning operations.
- There were consistently no detections of any CVOC in any of the off-site wells GP-10, GP-11, GP-12, GP-13 or GP-17.
- There were consistently no detections of any CVOC in on-site wells MW-1 or MW-4 and only trace detections of cis-1,2DCE in well MW-3.
- There were consistently low to no detections with no ES exceedances at MW-2D, which is a deeper well within the source area clustered next to MW-2, over the ten years of monitoring.
- There were no detections of any CVOC above their respective ESs in either of the two newest wells, MW-3D and MW-5.
- Following a review of Figures 9, 10, and 11, it appears that residual impacts at source well MW-2 have not substantially migrated in any direction horizontal or vertical.

7.3 Building Sump Crock Water Sample Data

There were no detections of any CVOC in any sump crock water sample collected as part of this investigation. Complete data packages were previously provided to WDNR.

7.4 Sub-Slab and Deep Soil Vapor Sampling Data

A total of five sub-slab vapor samples were collected from 2008-2017. Two sub-slab vapor samples (GP-7/V and GP-8/V) were collected from the basement area in 2008 and analyzed for VOCs. Three additional sub-slab vapor samples (SV-1, SV-2 and SV-3) were collected in 2017 and analyzed for CVOCs. Sub-slab vapor sampling locations are shown on Figure 2 and the data are summarized in Table 6 along with applicable vapor risk screening levels (VRSLs). The analytical package was previously submitted to WDNR.

A review of the sub-slab vapor data indicates only one of the five samples collected contained levels above a VRSL. Sample GP-7/V was collected from beneath the

basement utility room located immediately below the location of the former dry cleaning machine had levels above the VRSL for PCE and TCE.. There were no other exceedances in any other sample collected.

As a result of the VRSL exceedance at location GP-7/V, KPRG installed a SSDS as discussed above in Section 4.2. The functionality of the system was confirmed by conducting two rounds of field extension testing that verified that the radius of influence covers at least the area around the impacts noted at GP-7/V.

Two deep soil vapor samples (GP-18/v and GP-19/v) were collected in 2015. The probes are located near the sump discharge corridor along the southern boundary of the property. There were no exceedances in either sample for any parameter analyzed (Table 7).

In accordance with guidance provided by the State of Wisconsin Department of Health and Family Services (DHFS), KPRG also used site specific vapor data for input into the Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion Into Buildings to estimate potential PCE and TCE concentrations in the basement air via vapor migration through the concrete floor. The most conservative screen-level modeling was performed using default parameters within the model for average flow rate of vapor into the building (5 L/min), a silty clay underlying soil matrix and a commercial worker exposure duration of 260 days/year (a standard work year) over 30 years. The calculations were performed using the data from probe GP-7/V. The results indicated that there is a potential for exceeding the protective threshold for carcinogens used by DHFS of 1 in 1,000,000 cancer risk.

7.5 Indoor Ambient Air Sample Data

As noted above in Section 2.3, four indoor air samples (IA-1 to IA-4) were collected within the basement of the building at locations shown on Figure 2. All samples were collected via Summa canisters and analyzed for CVOCs. The analytical data is presented in Table 8 and the laboratory packages were previously provided to WDNR.

Regional Screening Levels (RSLs) were obtained from the U.S. EPA's Regional Screening Level Tables for non-residential/industrial air and applying the WDNR 1.0 x 10^{-5} excess lifetime cancer risk. The tables can be found at the EPA website <u>http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search</u>.

A review of the data under current regulatory conditions/standards and property use, indicates that that there are no non-residential exceedances in any of the indoor samples collected. The only detection in any of the samples was for trichloroethene (TCE) and was present in all four samples. It is noted that during the sampling, there was on-going building remodeling.

8.0 EXPOSURE PATHWAY EVALUATION

8.1 Direct Contact/Ingestion

No unsaturated soil impacts (collected above the water table at approximately 8 feet as discussed in Section 6.2 above) have been documented above a RCL based on ingestion. In addition, all sample locations with VOC detections were from locations that are covered with either the existing structure of asphalt pavement both of which are considered engineered barriers precluding direct contact. Therefore, this exposure pathway is not complete and not an issue at this site.

8.2 Soil to Groundwater Pathway

The data indicate that there are detections of chlorinated VOCs associated with dry cleaning at concentrations above the soil-to-groundwater migration RCLs. The highest impacts are limited to the area immediately at the back door of the dry cleaning facility where product was received and picked-up. As noted above, these impacts are believed to be associated with former handling practices. Shallow groundwater in this area has also been documented to be impacted. Therefore, at some point in the past, this pathway may have been complete. It is noted, however, that at this time, there is an asphalt driveway over this area that is in good condition with no cracking. This serves as an engineered barrier for the soil impacts precluding percolation of precipitation in this area. In addition, some smaller impacts were noted beneath the floor of the basement boiler room. The existing building currently serves as an engineered barrier for these soils. Therefore, at this time, the soil-to-groundwater pathway has been controlled with existing engineered barriers.

8.3 Potential Migration to Groundwater Pathway

The site investigation data documents that near surface groundwater beneath the site has been impacted by past dry cleaning activities. The groundwater exposure pathway can be completed by either direct ingestion of impacted groundwater or via discharge to a surface water body. Each of these groundwater pathways are discussed below.

8.3.1 Direct Ingestion of Impacted Groundwater

Based on discussions with the property manager, the building is on a municipal water distribution system operated by the Mequon Water Utility which obtains its water Lake Michigan. Groundwater data suggests that any groundwater impacts are shallow and localized to within the source area. There is no documented migration past site boundaries. Therefore, between the nature of the water distribution system and the groundwater data there are no potential receptors and this exposure pathway is deemed not complete.

8.3.2 Discharge of Impacted Groundwater to Surface Water

The nearest down gradient surface water receptor is Lake Michigan located approximately 1.5 miles east of the site. There are no groundwater impacts that

have been documented migrating to the east from the site. Due to the distance of the nearest surface water receptor away from the site and the lack of off-site migration of groundwater impacts, this exposure pathway is deemed not complete.

8.4 Surface Water Pathway

The nearest potential surface water receptor is defined in Section 5.3.2 above. Any impacted soils are located beneath either asphalt pavement or the building and should not be entrained with surface runoff from the site. Based on these two observations, there is no potential for site runoff to impact surface water. Therefore, this exposure pathway is deemed not complete and not an issue associated with this site.

8.5 <u>Air/Vapor Migration Pathway</u>

Based on the results of the site investigation, soil and groundwater impacts associated with former dry cleaning operations have been identified beneath the subject site. Ambient air field monitoring for total organic vapors performed during the site investigation did not detect any VOC vapors at the surface or in the breathing zone.

Sub-slab soil vapor data indicates that there is an accumulation of volatile organic vapors beneath the foundation. Rather than implementing an expanded site investigation program to further evaluate this potential pathway and generate data which may be questionable relative to the actual contribution of soil vapor migration to indoor air quality, it is assumed that this pathway is complete and that a soil venting system should be considered to vent vapors from beneath the foundation to mitigate this pathway.

8.6 Underground Utilities

The known underground utilities beneath the site have been included on Figure 2. The primary underground utilities include communications, gas, sanitary sewer and water. Electric comes in on overhead lines. The water line and sanitary sewer enter the building on the west side from North Port Washington Road. There are no impacts on the west side of the site. The gas enters the building at the southeast corner. There were no impacts at the southeast corner associated with the subject dry cleaner investigation. The communication line enters the property from the northeast side. There were no impacts found on the northeast side of the building. The distribution of impacts detailed in Section 4.0 does not appear to be influenced by the utilities suggesting that this potential transport pathway is not an issue at this site.

9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1 Conclusions

Based on the data and information/discussion provided above, the following conclusions are forwarded:

- Natural Cleaners is no longer in business and the dry cleaning machine has been decommissioned and removed. The facility no longer performs dry cleaning at this site. Based on these observations, there is no ongoing source of PCE impacts associated with the facility. The new Natural Cleaners facility (unrelated business and owners) is used only a drop-off and pick-up site.
- The near surface, native unconsolidated deposits beneath the subject site consist of brown silty clay till to approximately 5 feet bgs. This is underlain by brown clay to approximately 17 feet bgs followed by a gray clay with some silt to a depth of at least 45 feet bgs which was the deepest extent of drilling for this investigation.
- The bedrock beneath the site is dolomite and occurs at an estimated depth of approximately 100 feet bgs based on regional literature information.
- The lateral extent of unsaturated zone residual soil impacts has been adequately defined. The primary source area of impacts is beneath the asphalt drive behind the back of the building, immediately outside the backdoor of the former dry cleaning facility. This is the area where delivery and pick-up of dry cleaning solvent occurred. The impacts are believed to be associated with prior handling practices. Some impacts were also detected beneath the foundation within the utility room of the basement which is located directly below the former dry cleaning machine that was on the first floor. The areal extent is limited to these areas.
- The vertical extent of soil impacts has been adequately defined. The soil impacts extend to the saturated zone but not deeper than approximately 15 feet bgs. These are also limited to the source area defined above.
- The areas of residual soil impacts are located beneath existing engineered barriers including the structure itself and asphalt paving.
- Near surface groundwater beneath the site has been impacted by the former dry cleaning operations. The impacts are limited in areal extent to the source area outside the back door of the dry cleaning facility. Four lines of evidence demonstrate that the natural attenuation mechanism of reductive dechlorination is occurring beneath the site. The lines of evidence include constituent profiles near the source zone, constituent profiles away from the source zone, relatively low DO and the upgradient to downgradient profile of sulfate concentrations.

- Near surface groundwater flow maps indicate a convergent flow pattern with groundwater flow to the south-southeast.
- The water collected within the two sampled building sump crocks did not indicate the presence of any CVOC which is further evidence that the limited groundwater impacts are focused around MW-2.
- The underground drainage line from the drainage basin (which the sump crock drains into) out to the street beneath the site does not appear to be acting as conduit for contaminant migration. There are no other underground utilities in the area of the impacts.
- The direct contact/ingestion exposure pathway for soil has been deemed not complete and, therefore, not an issue at this site.
- The groundwater exposure pathway for direct ingestion and discharge to surface water have been deemed not complete and, therefore, not an issue at this site.
- Sub-slab soil vapor impacts appear limited to beneath the dry cleaning building. The impacts have been addressed with the sub-slab depressurization system put in in the utility room beneath the former machine location.
- Based on the indoor air samples, there does not appear to be a soil vapor migration issue associated with the residually impacted soils under the foundation within the basement utility room.

9.2 <u>Recommendations</u>

Based on the above conclusions, the combined information and data presented in this and previous reports have adequately defined the soil, groundwater, soil vapor and ambient air impacts associated with this site. It is recommended that the Site Investigation now be complete.

10.0 CERTIFICATIONS

I, Richard R. Gnat, P.G., hereby certify that I am a hydrogeologist as that term is defined in S. NR 712.03(1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS2, Wis. Adm. Code, or licensed in accordance with requirements of ch. GHSS3, Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Rithard R. St

Richard R. Gnat

Principal

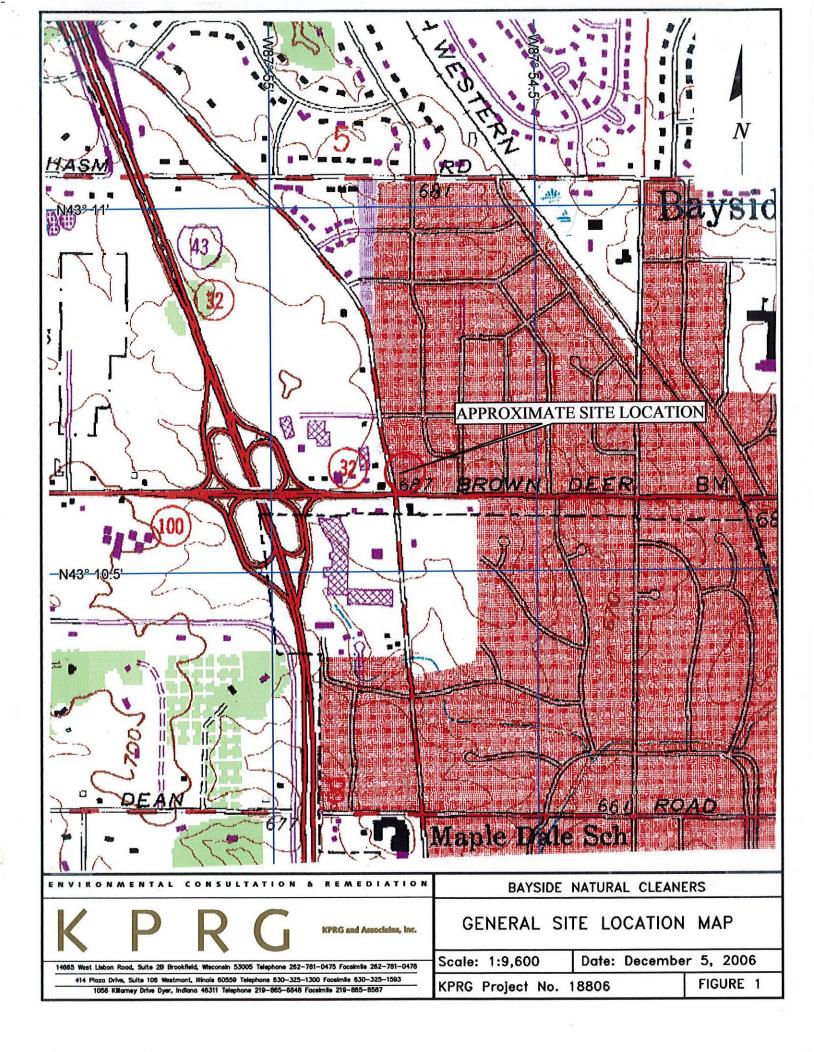
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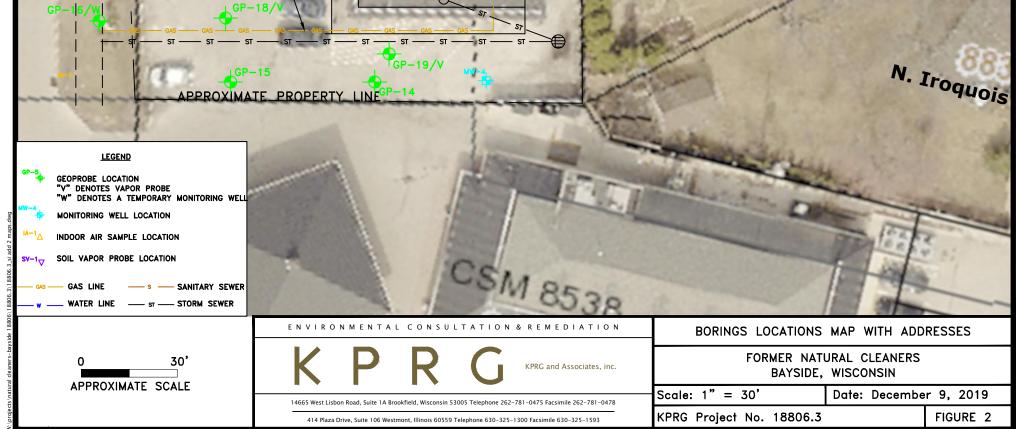
11.0 <u>REFERENCES</u>

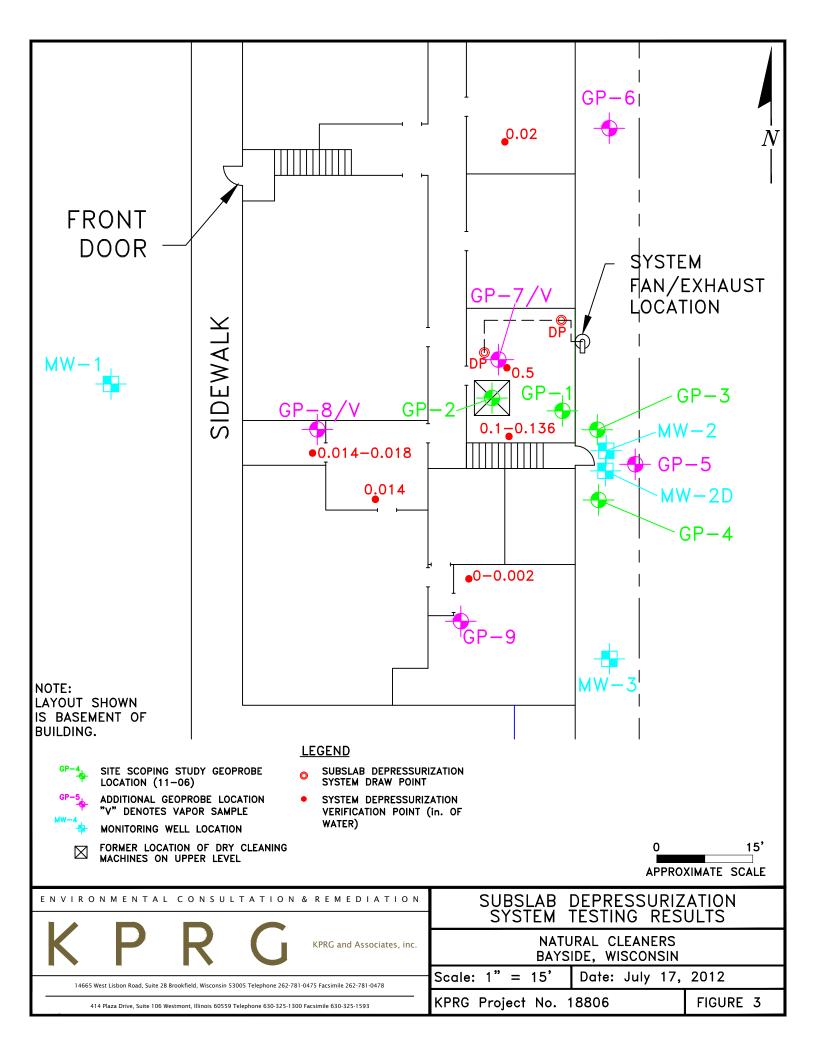
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- 5) AQTESOLV for Windows. Hydro-SOLVE, Inc., 2000.
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- 7) KPRG and Associates, Inc., Status Report and Additional Work Budget Approval Request, November 9, 2012

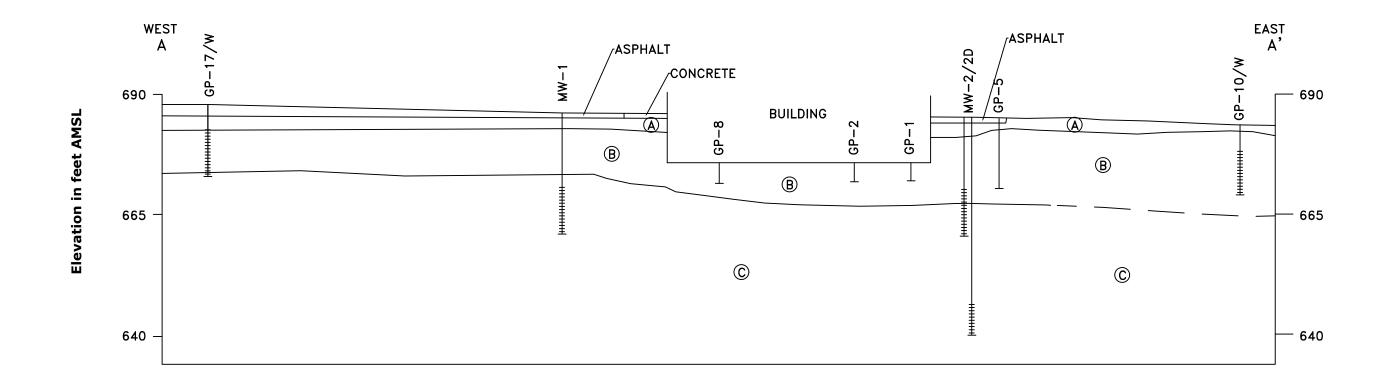
FIGURES

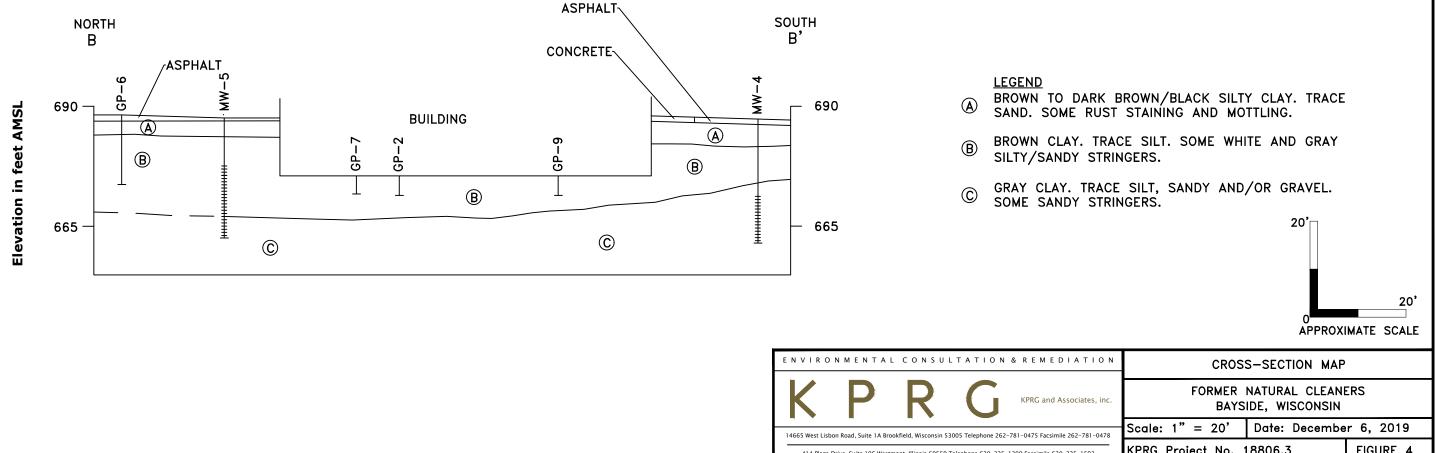


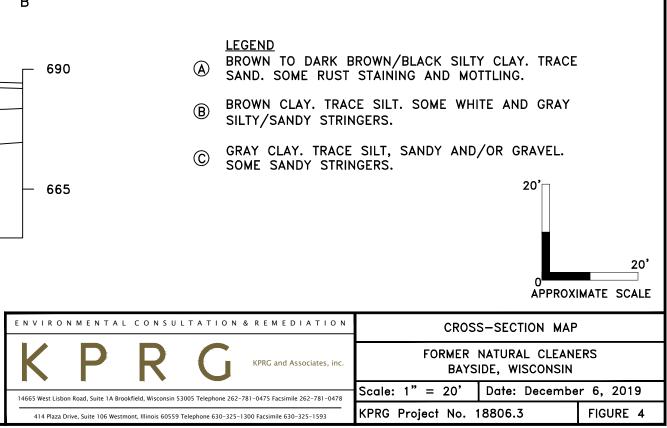
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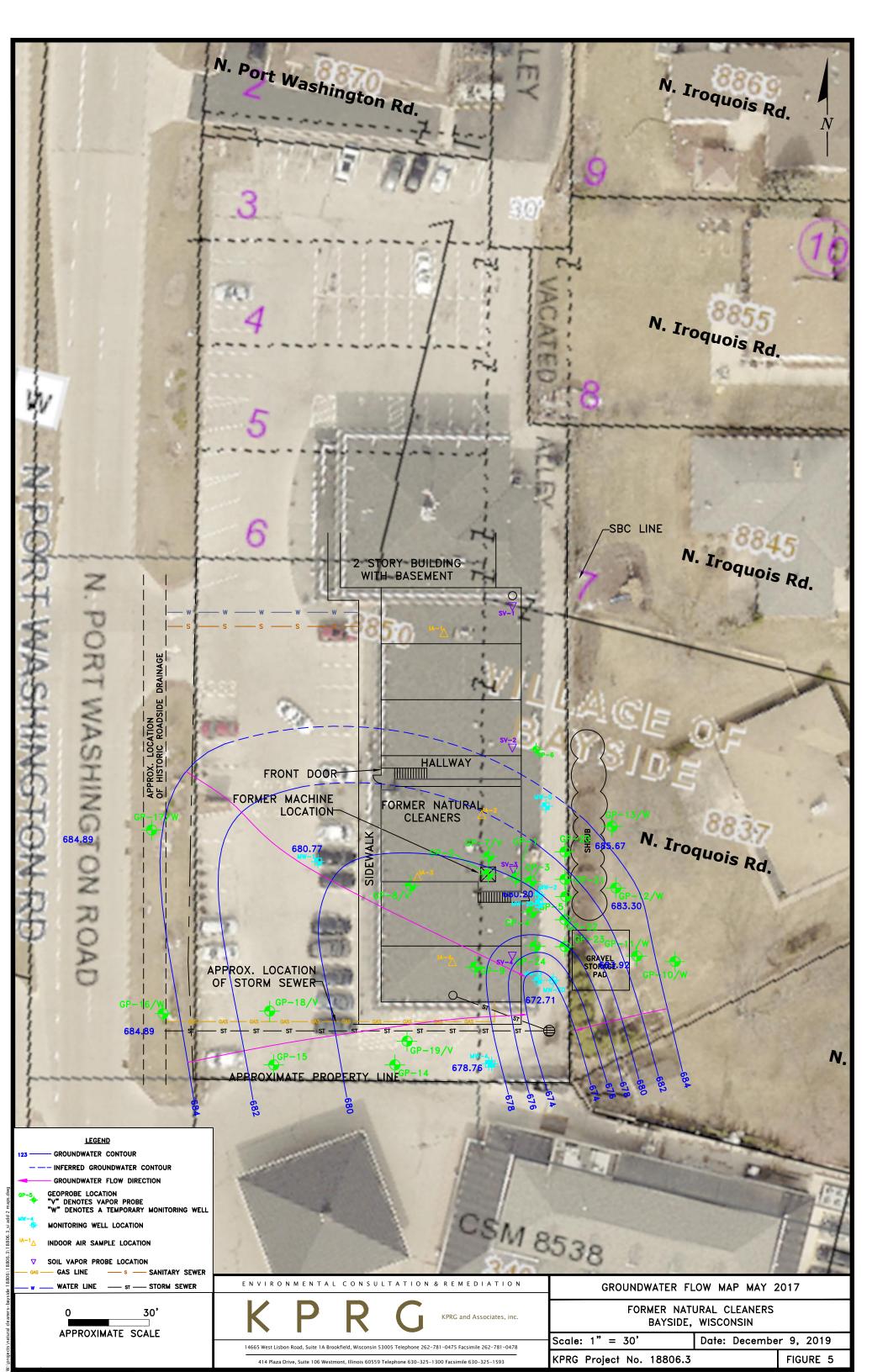


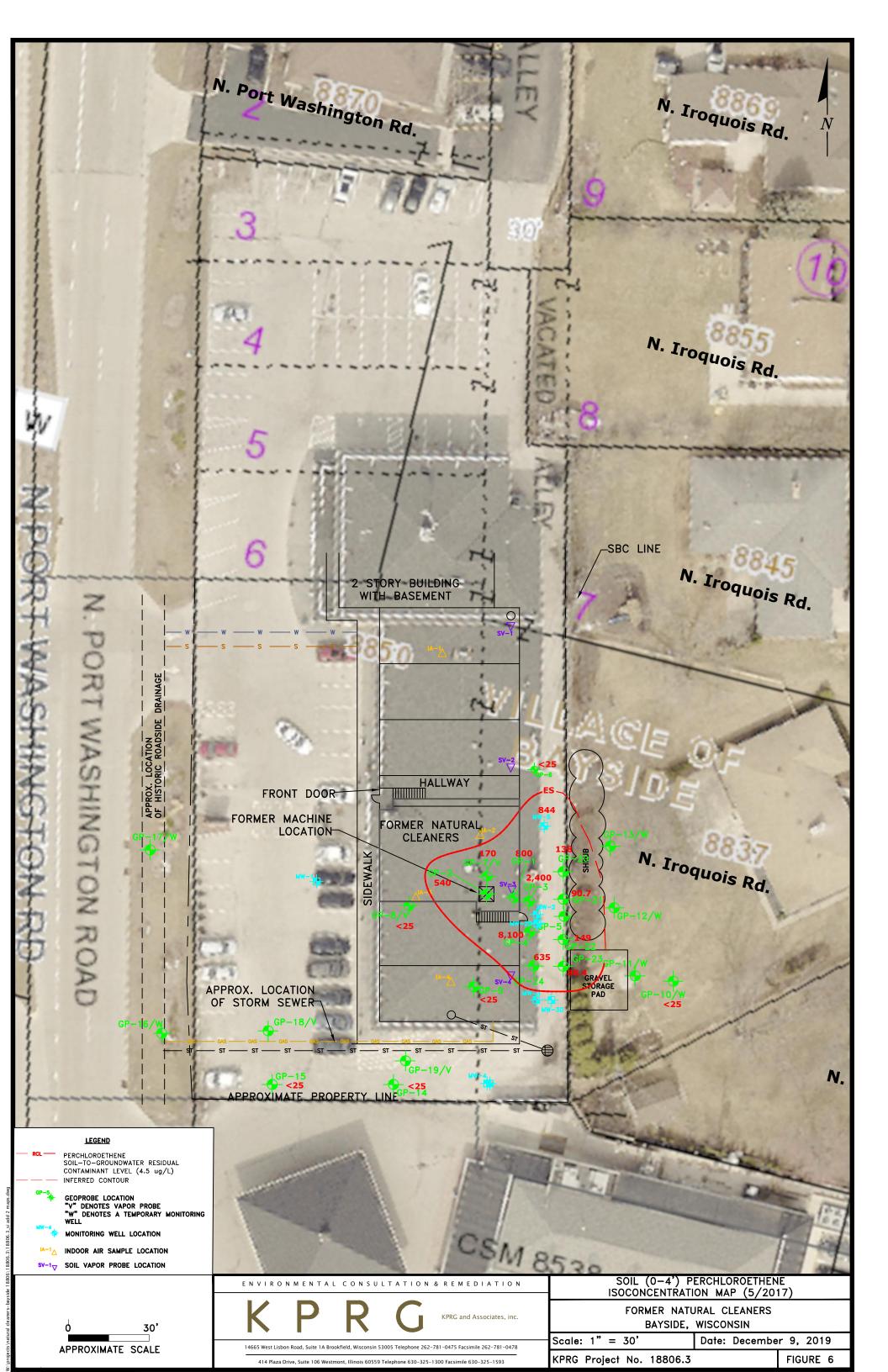


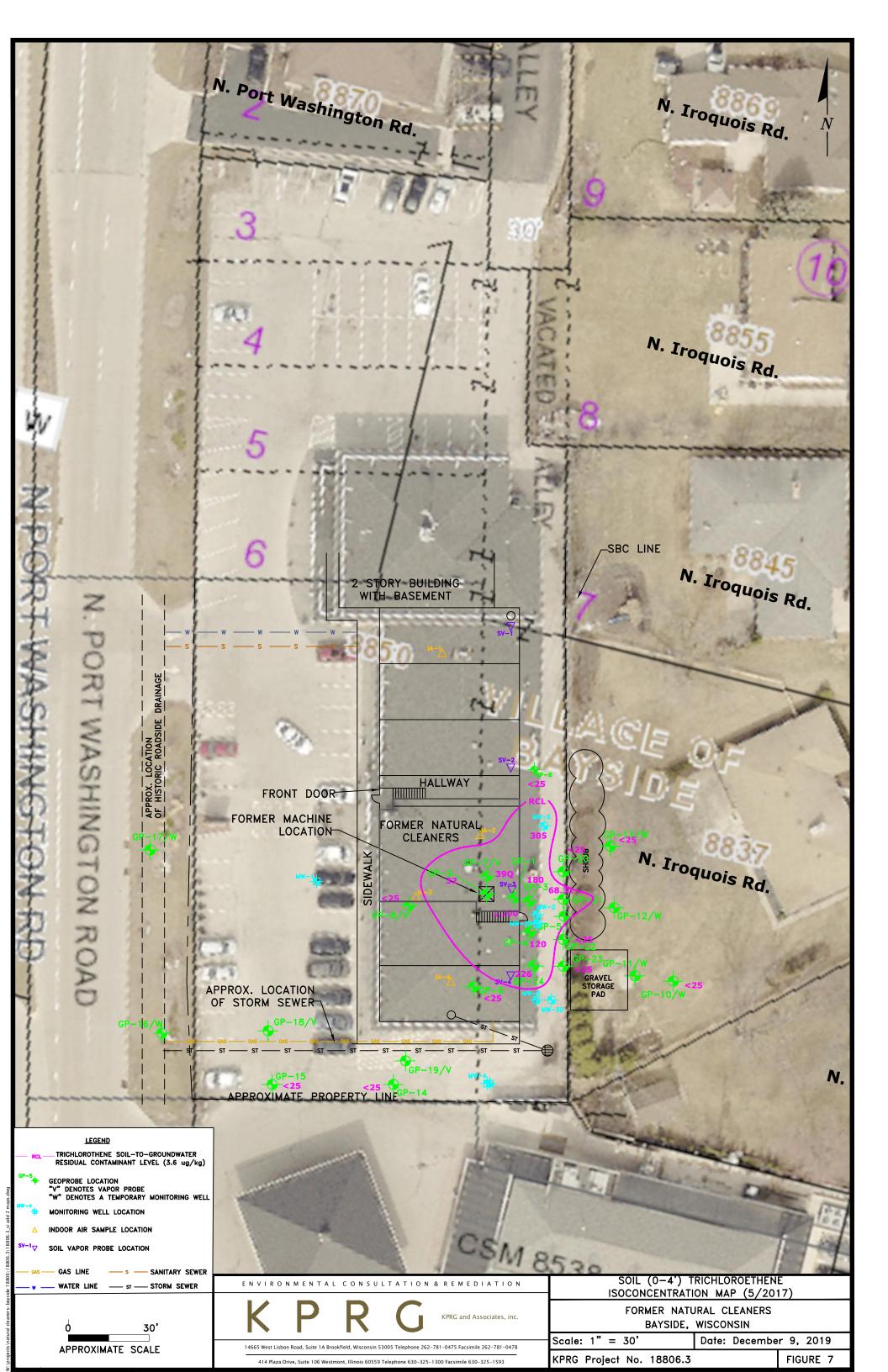


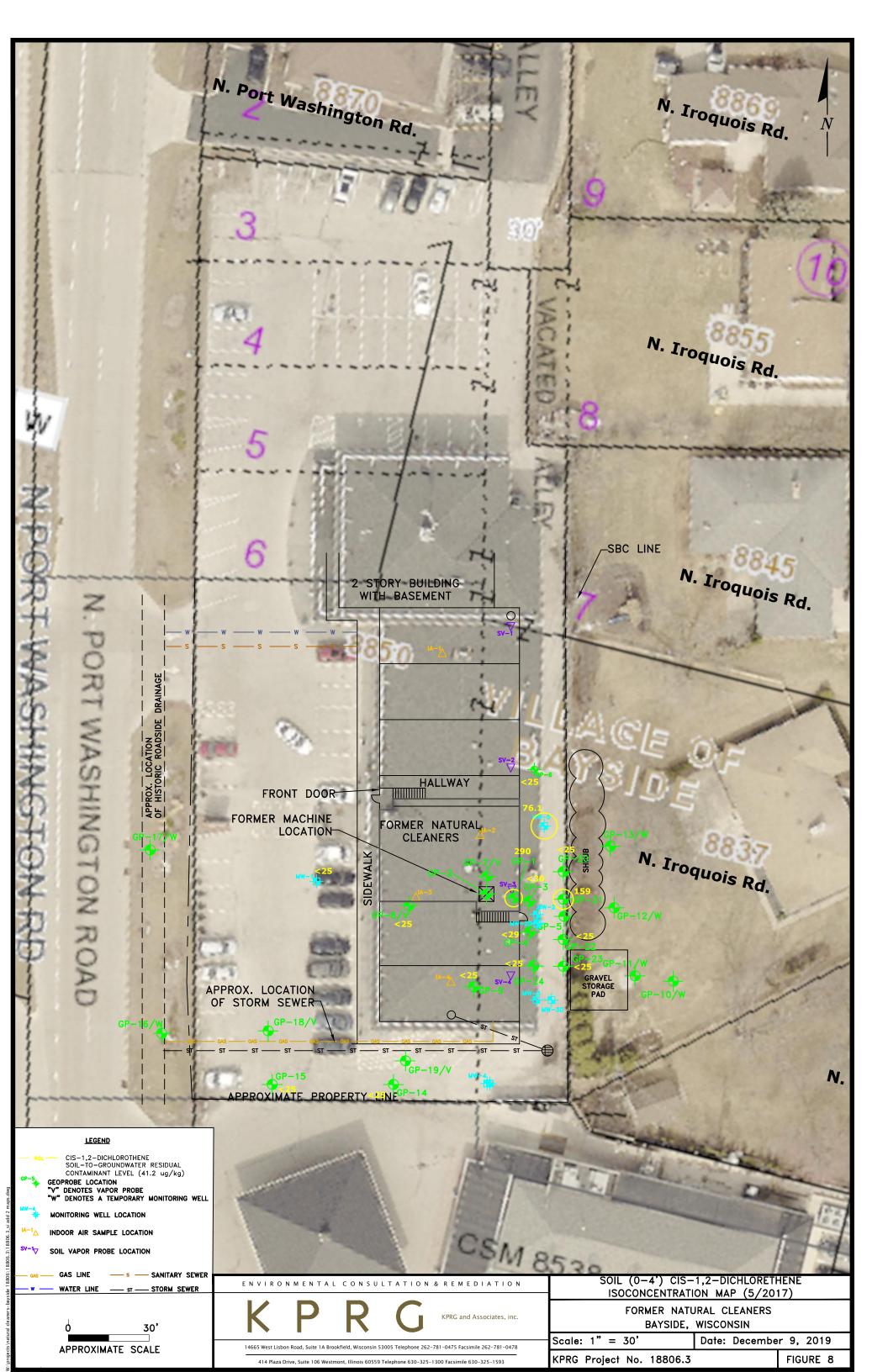




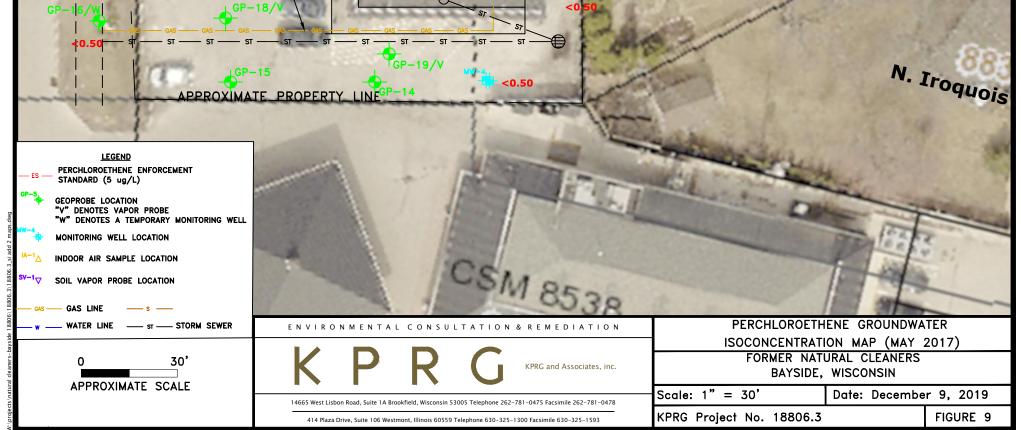




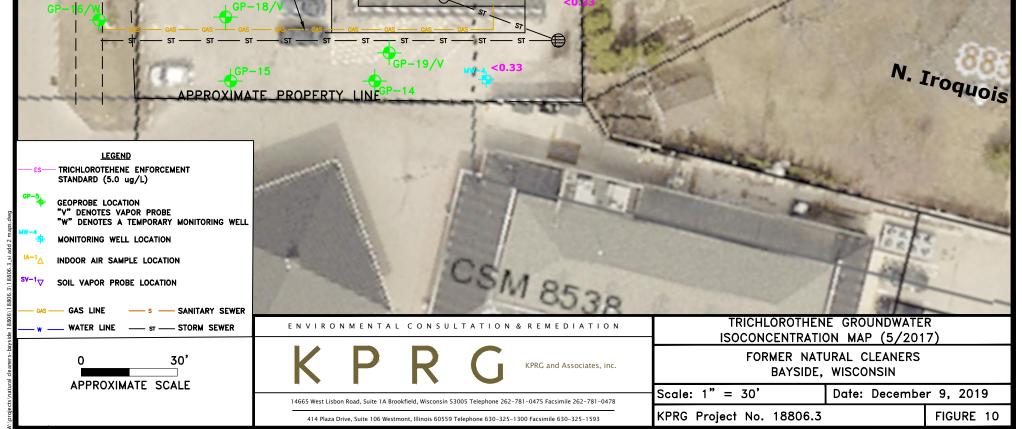




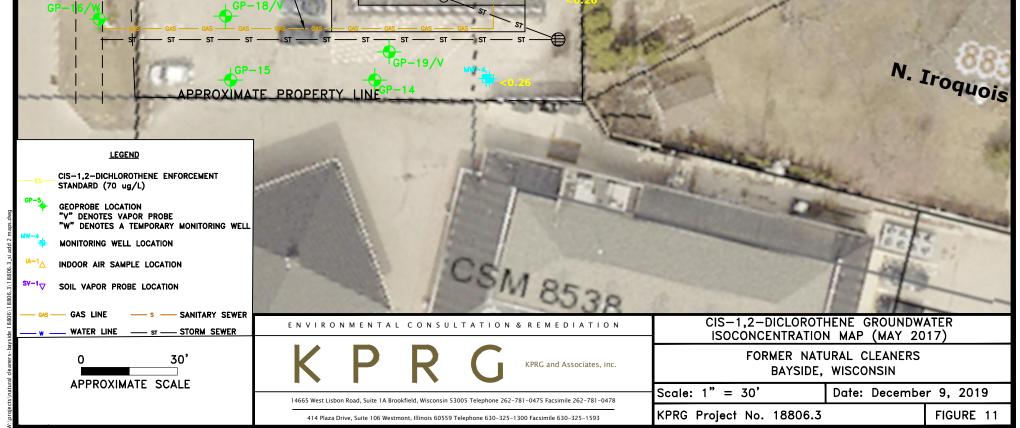
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TABLES

Table 1. Monitoring Well Casing and Water Level Elevations - Natural Cleaners, Bayside, WI

WELL	Elev USGS	1/24/2	2008	6/11/2	2008	8/26/2	2008	6/25/2	2009
VVLLL	Datum	Depth to Water	Water Elev						
MW-1	687.75	18.86	668.89	12.46	675.29	6.79	680.96	6.16	681.59
MW-2	687.69	8.22	679.47	9.58	678.11	9.35	678.34	7.35	680.34
MW-2D	687.64	32.19	655.45	33.08	654.56	30.47	657.17	28.03	659.61
MW-3	686.99	22.05	664.94	18.72	668.27	14.85	672.14	13.82	673.17
MW-4	686.62	22.84	663.78	14.43	672.19	8.94	677.68	6.75	679.87

WELL	Elev USGS	6/3/2	010	9/16/2	2010	12/15/	2010	4/5/2	011
VVLLL	Datum	Depth to Water	Water Elev						
MW-1	687.75	10.27	677.48	5.50	682.25	9.98	677.77	9.50	678.25
MW-2	687.69	7.62	680.07	7.47	680.22	11.83	675.86	7.20	680.49
MW-2D	687.64	28.38	659.26	28.49	659.15	32.10	655.54	28.00	659.64
MW-3	686.99	15.15	671.84	14.33	672.66	16.20	670.79	15.61	671.38
MW-4	686.62	7.06	679.56	9.39	677.23	12.00	674.62	9.38	677.24

WELL	Elev USGS	11/11/	2013	2/19/2	2014	5/17/2	2017
WELL	Datum	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.80	4.74	683.06	11.01	676.79	7.03	680.77
MW-2	687.74	7.96	679.78	9.22	678.52	7.54	680.20
MW-2D	687.66	28.50	659.16	28.35	659.31	27.11	660.55
MW-3	687.05	13.98	673.07	15.90	671.15	14.34	672.71
MW-3D	687.01	NI	NI	NI	NI	48.35	638.66
MW-4	686.68	8.51	678.17	10.92	675.76	7.92	678.76
MW-5	687.57	NI	NI	NI	NI	20.70	666.87
GP-10	684.27	6.60	677.67	4.17	680.10	NS	NS
GP-11	684.43	3.95	680.48	3.33	681.10	0.51	683.92
GP-12	684.70	5.38	679.32	7.89	676.81	1.40	683.30
GP-13	686.92	7.05	679.87	5.06	681.86	1.25	685.67
GP-16	686.74	2.71	684.03	3.89	682.85	1.85	684.89
GP-17	687.92	3.40	684.52	4.17	683.75	3.23	684.69

Notes: All Water Elevations are in feet above mean sea level.

NI - Not Installed

NS - Not Sampled

	Estimated	d Hydraulic Condu	uctivity
Well No.	cm/sec	ft/min	ft/day
MW-1	3.26E-06	6.41E-06	9.23E-03
MW-2	1.79E-06	3.52E-06	5.07E-03
MW-2D	2.26E-06	4.44E-06	6.39E-03
MW-3	1.49E-06	2.93E-06	4.22E-03
MW-4	1.71E-06	3.36E-06	4.84E-03

Table 2. Estimated Hydraulic Conductivities - Natural Cleaners

Table 3. Soil Sampling Analytical Results For Detections of VOC and TOC - Former Natural Cleaners, Bayside, WI

	SAMPLE ID	WDNR Non-I Standa		GP-1 (1-2')	GP-2 (1-2')	GP-3 (3-4')	GP-4 (3-4')	GP-5 (8-10')	GP-5 (13-15')	GP-6 (3-5')	GP-7 (3.5-4')	GP-8 (2-3.5')
ANALYTE	DATE	Direct Contact	Soil-GW	11/17/2006	11/17/2006	11/17/2006	11/17/2006	12/20/2007	12/20/2007	12/20/2007	12/20/2007	12/20/2007
cis-1,2-Dichlo	oroethene	156,000	41.2	290	<29	<30	<29	<500	<u>140</u>	<25	<25	<25
trans-1,2-Dich	nloroethene	1,560,000	62.6	<30	<29	<30	<29	<500	<25	<25	<25	<25
Tetrachloroeth	hene	33,000	4.5	800	<u>540</u>	2,400	<u>8,100</u>	82,000	<u>5,100</u>	<25	<u>170</u>	<25
Trichloroether	ne	1,300	3.6	<u>1,100</u>	<u>32</u>	<u>180</u>	<u>120</u>	<u>960 Q</u>	<u>150</u>	<25	<u>39 Q</u>	<25
Viny chloride		67	0.1	<42	<40	<42	<41	<500	<25	<25	<25	<25
TOC (mg/kg)		NE	NE	NA	NA	NA	NA	NA	NA	3,300	NA	NA

	SAMPLE ID	WDNR Non-I Standa		GP-9 (2-3')	GP-10 (2-3')	GP-10 (9-10')	MW-1 (1-4')	MW-2 (8-10')	MW-2 (16-18')	MW-3 (8-10')	GP-11 (8-9')	GP-12 (8-9')
ANALYTE	DATE	Direct Contact	Soil-GW	12/20/2007	6/22/2009	6/22/2009	12/21/2007	12/19/2007	12/19/2007	12/19/2007	9/25/2013	9/26/2013
cis-1,2-Dichlor	roethene	156,000	41.2	<25	<25	<25	<25	<200	<25	<u>170</u>	<25	<25
trans-1,2-Dich	loroethene	1,560,000	62.6	<25	<25	<25	<25	<200	<25	<25	<25	<25
Tetrachloroeth	nene	33,000	4.5	<25	<25	<25	<25	<u>36.000</u>	<25	<25	<25	<25
Trichloroethen	ne	1,300	3.6	<25	<25	<25	<25	<u>950</u>	<25	<u>140</u>	<25	<25
Viny chloride		67	0.1	<25	<25	<25	<25	<200	<25	<25	<25	<25
TOC (mg/kg)		NE	NE	NA	NA	NA	17,000	NA	NA	6,500	NA	NA

	SAMPLE ID	WDNR Non-I Standa		GP-13 (8-9')	GP-14 (1-3')	GP-15 (2-4')	GP-16 (8-9')	GP-17 (8-9')	GP-20 (1-3')	GP-20 (5-7')	GP-21 (1-3')	GP-21 (10-12')
ANALYTE	DATE	Direct Contact	Soil-GW	9/27/2013	9/28/2013	9/29/2013	9/30/2013	9/30/2013	3/15/2017	3/15/2017	3/15/2017	3/15/2017
cis-1,2-Dichlor	roethene	156,000	41.2	<25	<25	<25	<25	<25	<25.0	<u>142</u>	<u>159</u>	<u>573 J</u>
trans-1,2-Dich	loroethene	1,560,000	62.6	<25	<25	<25	<25	<25	<25.0	38.3 J	207	<250
Tetrachloroeth	nene	33,000	4.5	<25	<25	<25	<25	<25	<u>138</u>	<u>949</u>	<u>90.7</u>	54,200
Trichloroethen	ne	1,300	3.6	<25	<25	<25	<25	<25	<25.0	<u>668</u>	<u>68.3 J</u>	<u>3,440</u>
Viny chloride		67	0.1	<25	<25	<25	<25	<25	<u>51.5 J</u>	<25.0	<u>321</u>	<250
TOC (mg/kg)		NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

	SAMPLE ID	WDNR Non-I Standa		GP-22 (1-3')	GP-22 (8-10')	GP-23 (1-3')	GP-23 (8-10')	GP-24 (1-3')	GP-24 (8-10')	MW-5 (1-3')	MW-5 (10-12')
ANALYTE	DATE	Direct Contact	Soil-GW	3/15/2017	3/15/2017	3/15/2017	3/15/2017	3/15/2017	3/15/2017	3/15/2017	3/15/2017
cis-1,2-Dichl	oroethene	156,000	41.2	<25.0	<50.0	<25.0	<25.0	<25.0	39.6 J	<u>76.1</u>	<25.0
trans-1,2-Dic	chloroethene	1,560,000	62.6	<25.0	<50.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroe	thene	33,000	4.5	<u>149</u>	<u>7,480</u>	<u>88.4</u>	<u>3,460</u>	<u>635</u>	<u>4.690</u>	<u>844</u>	<u>1.670</u>
Trichloroethe	ene	1,300	3.6	<25.0	<u>750</u>	<25.0	<u>316</u>	<u>226</u>	<u>403</u>	<u>305</u>	<u>78.5</u>
Viny chloride)	67	0.1	<u>42.6 J</u>	<50.0	<u>54.3 J</u>	<25.0	<25.0	<25.0	<25.0	<25.0
TOC (mg/kg))	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA

Notes: All results are in ug/kg, unless otherwise noted

Underline - Value exceeds the soil-to-gw RCL

RCL - Residual Contaminant Level

Bold - Value exceeds the direct contact RCL

Soil-GW - Soil to Groundwater RCL

 $\ensuremath{\mathsf{J}}$ - Detected between the limits of detection and quantitation

Q - Analyte detected between limit of detection and limit of quantification. The result is qualified due to the uncertainity of analyte concentration within this range.

NE - Not Established

Table 4. Summary of Groundwater Sample Analytical Results - Former Natural Cleaners, Bayside, WI

T	WDND	NR 140				-		MW-1											MW-2						1	
Parameter Name	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017		
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.75	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.90	<u>0.67 J</u>	<u>1.3</u>	<u>1.1J</u>	<u>1.4 J</u>	<0.72	<0.72	<u>1.5 J</u>	<2.4	<1.9	<u>1.6 J</u>		
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	<u>180</u>	<u>168</u>	<u>187</u>	<u>221</u>	276	247	<u>218</u>	<u>258</u>	<u>366</u>	<u>299</u>	<u>311</u>		
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	<u>23</u>	18.1	22.8	<u>32.3</u>	43.3	40.7	<u>34.3</u>	<u>40.1</u>	<u>74.6</u>	<u>56.9</u>	<u>80.3</u>		
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<1.5	<0.61	<0.61	<1.2	<1.2	<1.2	<1.2	<1.2	NA	NA	NA	1	
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	320	<u>164</u>	<u>199</u>	<u>412</u>	<u>565</u>	539	<u>450</u>	<u>507</u>	<u>1070</u>	757	<u>1080</u>		
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	5.1 Q	3.1	4.8	7.1	7.4	8.6	7.7	6.9	9.0	7.2	7.1		
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<u>58</u>	33	<u>50.1</u>	76.3	95.6	99.6	86.9	<u>97.5</u>	<u>161</u>	<u>129</u>	<u>179</u>		
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<u>7.2</u>	<0.18	<u>4.3</u>	<u>11.9</u>	<u>14.6</u>	<u>2.1</u>	<0.36	<u>1.6 J</u>	<u>56.9</u>	<u>2.6 J</u>	<u>13.4</u>		
Dissolved Oxygen (mg/l)	NE	NE	1.32	0.70	0.48	1.03	0.39	0.20	0.27	0.60	0.71	0.69	0.94	1.04	0.64	0.69	1.14	0.28	0.32	0.28	0.81	0.21	0.97	0.52		
Oxidation-Reduction Potential	NE	NE	163	16.9	174	135	111.5	113	-30.3	59.9	93.0	-84.2	112.6	170	2.0	145.0	93.8	63.6	119.0	-64.4	50.1	87.4	-73.1	101.7		
T			1					MAY OD						1					104/0							
Parameter Name		NR 140			1	1	1	MW-2D			1		1		1	1			MW-3	1			1	I		W-3D
	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	5/18/2017	12/1/2
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	1.2	<0.26	< 0.83	<0.83	1.3	<0.83	<0.83	<0.83	<0.83	<0.83	1.7	0.88 J	2.0	<0.26	<0.2
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	0.42 J	<0.26	<0.2
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	< 0.45	<0.45	<u>0.51 J</u>	<0.45	<u><0.57 J</u>	<u>0.64 J</u>	<u>1.0</u>	<u>0.62 J</u>	<u>1.1</u>	<u>3.0</u>	<u>0.61 J</u>	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	<0.5
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.5
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<u>0.58 J</u>	<0.33	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	<0.3
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<u>0.42 Q</u>	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.1
Dissolved Oxygen (mg/l)	NE	NE	2.13	1.01	4.35	1.00	0.69	0.84	0.65	0.44	0.49	0.70	0.53	1.40	0.86	0.91	1.13	1.97	0.40	0.89	0.63	0.60	0.90	0.58	1.44	1.4
Oxidation-Reduction Potential	NE	NE	169	3.7	108	11.6	-30.1	87.4	-30.6	1.1	4.4	-74.9	-28	170	12.5	146	96.6	46.3	95.4	-23.2	57.6	23.5	-71.7	176.8	137.9	-24.
	WDNR	NR 140						MW-4						M	N-5				GP-10				1			
Parameter Name	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	5/18/2017	12/1/2017	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/19/2014				
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48				
cis-1,2-Dichloroethene	7	70	< 0.83	0.86J	< 0.83	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	<0.26	1.7	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42				
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	< 0.89	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	<0.26	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37				
Methyl-tert-butyl ether	12	60	<0.61	9.3	9.0	23.6	28.9	22.4	<u>20.3</u>	<u>21.8</u>	NA	NA	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	_			
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	<u>4.0</u>	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	_			
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	_			
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	<u>1.5</u>	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	_			
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18				
Dissolved Oxygen (mg/l)	NE	NE	1.30	0.78	0.60	1.14	0.21	0.29	0.42	0.57	3378	0.30	0.57	4.89	0.45	6.66	1.41	1.26	4.56	1.99	1.0	NM				
Oxidation-Reduction Potential	NE	NE	150	11.5	179	56.5	-13.1	46.8	-24.8	62.2	89.0	-74.8	-12.5	157.5	86.5	116	29.8	27.1	-21.3	141.1	31.5	NM				
T	WDNR	NR 140		GP-11		1	GP-12			GP-13			GE	-16			GP-17		Sump-N	Sump-S	1					
Parameter Name		ES	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	10/1/2015	5/17/2017	11/11/2013	2/19/2014	5/17/2017	2/20/2014	2/20/2014						
	PAL									.0.40	0.47	<0.48	<0.48	NA	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48						
1,2-Dichloroethane	PAL 0.5	5	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0. 4 0	INA												
1,2-Dichloroethane cis-1,2-Dichloroethene		5 70	<0.48 <0.42	<0.48 <0.42	<0.17 <0.26	<0.48 <0.42	<0.48 <0.42	<0.17 <0.26	<0.48 <0.42	<0.48	<0.17	<0.48 1.7	1.4	1.2	0.54 J	<0.42	<0.42	<0.26	<0.42	<0.42						
	0.5															<0.42 <0.37	<0.42 <0.37	<0.26 <0.26	<0.42 <0.37	<0.42 <0.37						
cis-1,2-Dichloroethene	0.5 7	70	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	1.7	1.4	1.2	0.54 J			-								
cis-1,2-Dichloroethene trans-1,2-Dichloroethene	0.5 7 20	70 100	<0.42 <0.37	<0.42 <0.37	<0.26 <0.26	<0.42 <0.37	<0.42 <0.37	<0.26 <0.26	<0.42 <0.37	<0.42 <0.37	<0.26 <0.26	1.7 <0.37	1.4 <0.37	1.2 NA	0.54 J <0.26	<0.37	<0.37	<0.26	<0.37	<0.37						
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Methyl-tert-butyl ether	0.5 7 20 12	70 100 60	<0.42 <0.37 NA	<0.42 <0.37 NA	<0.26 <0.26 NA	<0.42 <0.37 NA	<0.42 <0.37 NA	<0.26 <0.26 NA	<0.42 <0.37 NA	<0.42 <0.37 NA	<0.26 <0.26 NA	1.7 <0.37 NA	1.4 <0.37 NA	1.2 NA NA	0.54 J <0.26 NA	<0.37 NA	<0.37 NA	<0.26 NA	<0.37 NA	<0.37 NA						
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Methyl-tert-butyl ether Tetrachloroethene	0.5 7 20 12 0.5	70 100 60 5	<0.42 <0.37 NA <0.47	<0.42 <0.37 NA <0.47	<0.26 <0.26 NA <0.50	<0.42 <0.37 NA <0.47	<0.42 <0.37 NA <0.47	<0.26 <0.26 NA <0.50	<0.42 <0.37 NA <0.47	<0.42 <0.37 NA <0.47	<0.26 <0.26 NA <0.50	1.7 <0.37 NA <0.47	1.4 <0.37 NA <0.47	1.2 NA NA <0.50	0.54 J <0.26 NA <0.50	<0.37 NA <0.47	<0.37 NA <0.47	<0.26 NA <0.50	<0.37 NA <0.47	<0.37 NA <0.47						
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Methyl-tert-butyl ether Tetrachloroethene 1,1,1-Trichloroethane	0.5 7 20 12 0.5 40	70 100 60 5 200	<0.42 <0.37 NA <0.47 <0.44	<0.42 <0.37 NA <0.47 <0.44	<0.26 <0.26 NA <0.50 <0.50	<0.42 <0.37 NA <0.47 <0.44	<0.42 <0.37 NA <0.47 <0.44	<0.26 <0.26 NA <0.50 <0.50	<0.42 <0.37 NA <0.47 <0.44	<0.42 <0.37 NA <0.47 <0.44	<0.26 <0.26 NA <0.50 <0.50	1.7 <0.37 NA <0.47 <0.44	1.4 <0.37 NA <0.47 <0.44	1.2 NA NA <0.50 <0.50	0.54 J <0.26 NA <0.50 <0.50	<0.37 NA <0.47 <0.44	<0.37 NA <0.47 <0.44	<0.26 NA <0.50 <0.50	<0.37 NA <0.47 <0.44	<0.37 NA <0.47 <0.44						
cis-1,2-Dichloroethene trans-1,2-Dichloroethene Methyl-tert-butyl ether Tetrachloroethene 1,1,1-Trichloroethane Trichloroethene	0.5 7 20 12 0.5 40 0.5	70 100 60 5 200 5	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.26 <0.26 NA <0.50 <0.50 <0.33	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.26 <0.26 NA <0.50 <0.50 <0.33	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.42 <0.37 NA <0.47 <0.44 <0.36	<0.26 <0.26 NA <0.50 <0.50 <0.33	1.7 <0.37 NA <0.47 <0.44 <0.36	1.4 <0.37 NA <0.47 <0.44 <0.36	1.2 NA NA <0.50 <0.50 <0.33	0.54 J <0.26 NA <0.50 <0.50 <0.33	<0.37 NA <0.47 <0.44 <0.36	<0.37 NA <0.47 <0.44 <0.36	<0.26 NA <0.50 <0.50 <0.33	<0.37 NA <0.47 <0.44 <0.36	<0.37 NA <0.47 <0.44 <0.36						

12/1/2017 <0.17 <0.26 <0.26 NA <0.50 <0.50 <0.33 <0.18 1.46 -24.6

Note: All vaules are in ug/L unless otherwise noted.

NA - Not Analyzed Bold - Result exceeds the ES

PAL - Preventative Action Limit

ES - Enforcement Standard

 NM
 Not Measured
 Bold -Bold -Q / J - Result estimated. Analyte detected between limits of detection and quantification.

Table 5. Summary of Groundwater Sample Analytical Results: Ethane; Ethane; Methane; Nitrogen, Nitrate; Sulfide; Sulfate; Total Organic Carbon - Natural Cleaners, Bayside, WI

Parameter Name	WDNR	NR 140	M١	V-1	M١	N-2	MW	/-2D	M	N-3	M	V-4
	PAL	ES	1/24/2008	8/26/2008	1/24/2008	8/26/2008	1/24/2008	8/26/2008	1/24/2008	8/26/2008	1/24/2008	8/26/2008
Ethane, dissolved	NE	NE	< 10	<1.6	< 10	<1.6	< 10	<1.6	< 10	<1.6	< 10	<1.6
Ethene, dissolved	NE	NE	< 10	<1.4	< 10	<1.4	< 10	<1.4	< 10	<1.4	< 10	<1.4
Methane, dissolved	NE	NE	< 10	<2.0	< 10	<2.0	< 10	<2.0	< 10	<2.0	< 10	<2.0
Nitrogen, Nitrate (mg/l)	2	10	0.57	3.8	0.45	<0.085	0.16	0.23 J	0.25	1.7	0.43	15 J
Sulfide (mg/l)	NE	NE	< 2.3	<2.3	< 2.3	<2.3	< 2.3	<2.3	< 2.3	<2.3	< 2.3	<2.3
Sulfate (mg/l)	125 ^a	250 ^a	2300	1960	110	135	47	66.5	130	465	<u>290</u>	565
Total Organic Carbon (mg/l)	NE	NE	7.0	8.8	4.9	3.2	3.7	4.5	6.6	3.0	7.4	6.8

Note: All vaules are in ug/L unless otherwise noted. PAL - Preventative Action Limit Bold - Result exceeds the ES

Underline - Result exceeds the PAL

ES - Enforcement Standard

Q / J - Result estimated. Analyte detected between limits of detection and quantification.

Table 6 - Summary of Sub-Slab Vapor Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Sa	mple Name	WDNR Smal	l Commercial	GP-7 / V	GP-8 / V	SV-1	SV-2	SV-3
Parameter	Date	Indoor VAL	Sub-Slab VRSL	1/13/2008	1/13/2008	3/31/2017	3/31/2017	3/31/2017
1,1-Dichloroetha	ane	77	2,600	NA	NA	<0.23	<0.24	<0.24
1,1-Dichloroethe	ene	4.7	160	NA	NA	<0.34	<0.37	<0.37
cis-1,2-Dichloro	ethene	NV	NV	7,740	ND	0.66 J	<0.38	8.7
trans-1,2-Dichlo	roethene	NV	NV	778	ND	<0.55	<0.60	7.8
Tetrachloroethe	ne	180	6,000	<u>15,500</u>	110	2.5	0.68 J	175
1,1,1-Trichloroe	thane	22,000	730,000	130	ND	<0.36	<0.38	0.36 J
Trichloroethene		8.8	290	3,560	4.42	0.49 J	<0.43	32
Vinyl Chloride		28	930	ND	ND	<0.28	<0.30	<0.30

Notes : All values in ug/m³.

SV samples collected while SSDS shut off as directed by the WDNR.

VAL - Vapor Action Level

VRSL - Vapor Risk Screening Level NA - Not Analyzed

NV - No Value

ND - Non-Detect

BOLD - Result exceeds the Sub-Slab VRSL

Table 7. Summary of Detected Soil Vapor Sample Analytical Results - Natural Cleaners, Bayside, WI

Parameter Name	VRSL	GP-18	GP-19
	Deep Soil	10/06/15	10/06/15
1,1-Dichloroethane	7,700	<0.74	<0.79
1,1-Dichloroethene	88,000	<1.1	<1.2
cis-1,2-Dichloroethene	NS	<1.2	<1.2
trans-1,2-Dichloroethene	NS	NA	NA
Tetrachloroethene	18,000	<1.3	4.9
1,1,1-Trichloroethane	400,000	<1.2	<1.2
Trichloroethene	880	<1.3	1.7 J
Vinyl Chloride	2,800	<0.92	<0.99

Note: All vaules are in ug/m3.

Screening Levels are from USEPA Region 3, Table for Regional Screening Levels for Chemical Contaminants

NS - No Standard

ND - Non-Detect

NA - Not Analyzed

* - The sample was analyzed by serial dilution

Underline - Value exceeds the Residential Air Screening Level

BOLD - Value exceeds the Industrial Air Screening Level

VRSL - Vapor Risk Screening Levels

Parameter Name	Screenin	g Levels	IA	-1	IA	-2	IA	3	IA	-4
Parameter Name	Residential	Non-Res	9/27/2013	10/2/2015	9/27/2013	10/2/2015	9/27/2013	10/2/2015	9/27/2013	10/2/2015
1,1-Dichloroethane	18	77	NA	<0.24	NA	<0.23	NA	<0.23	NA	<0.23
1,1-Dichloroethene	210	880	NA	<0.37	NA	<0.34	NA	<0.35	NA	<0.35
cis-1,2-Dichloroethene	NV	NV	NV <1.2 <0.38 <1.1 <0.35		<0.35	<1.1	<0.37	<1.1	<0.37	
trans-1,2-Dichloroethene	NV	NV	<1.2	NA	<1.1	NA	<1.1	NA	<1.1	NA
Tetrachloroethene	42	180	<0.99	2.3	<0.96	1.9	1.1	2.0	1.1	1.7
1,1,1-Trichloroethane	5,200	22,000	NA	<0.38	NA	<0.36	NA	<0.37	NA	<0.37
Trichloroethene	2.1	8.8	6.6	<0.43	7.0	<0.40	8.5	<0.41	6.6	<0.41
Vinyl Chloride	1.7	28	<0.37	<0.30	<0.36	<0.28	<0.36 <0.29		<0.36	<0.29

Table 8. Summary of Indoor Air Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Note: All vaules are in mg/m3.

NA - Not Analyzed

NV - No value

Italics - Value exceeds the Residential Air Screening Level

BOLD - Value exceeds the Non-Residential Air Screening Level

APPENDIX A

SOIL BORING LOG	INFORMATION
Form 4400-122	Rev. 7-98

2			

Route To:

Watershed/Wastewater 🔲 Waste Management 🗍 Remediation/Revelopment 🔀 Other 🗌

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Route To:

Watershed/Wastewater 🗌 Waste Management 🗍 Remediation/Revelopment 🔀 Other 🔲

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SOIL BORING LOG INFORMATION

Department of Natural Resources					Form 4	400-122	2		Rev. 7-	98	
Route To: Watershed / Wastewater Wastewater Remediation / Redevelopment ✓	e Managem Other	nent]					I	Page	1 of	2
Facility/Project Name former Natural Cleaners	License/	Permit/	Monito	ring Nu	mber		Bo	ring Nu	mber	MW-	3D
Boring Drilled By: Name of crew chief (first,last) and Firm	Date Dri	illing S	tarted		Date D	rilling C	omplete	ed	Drilling		
First Name: Adam/Dan Last Name:		-	<u>2</u> <u>0</u>	<u>1</u> <u>7</u>	$\frac{0}{m} \frac{3}{m/m}$		$\frac{2}{y} \frac{0}{y}$				then HSA
Firm: Horizon Construction WI Unique Well No. DNR Well ID No. Well Name	m m/ d	1 0/	у у			d d/		у у	Boreho	le Diam	eter
MW-3D			Feet M				Feet M	SL		2 then 8	
Local Grid Origin (estimated:) or Boring Location State Plane N, SW 1/4 of SE 1/4 of Section 5 , T 8 N, R 22 E		Lat ng			Loc	cal Grid	Locatio <u>F</u> eet	N	<u>.</u>		E Feet W
Facility ID 341140250 County Milwaukee C	County Code 41	e	Civil T	own / C	ity / or <u>\</u>	/illage	Baysid	e			
Sample \widehat{g}							So	il Prope	rties	-	
Sample South Participation Image: South Active of the section of		USCS	Graphic Log	Well Diagram	DID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
- 2 - 4 - 6 - 8 10 Boring blind drilled to 25 feet. Please see boring log MW-3 for descr - 14 - 16 - 18 20 22 Thereby certify that the information on this form is true and correct to			U	e.							
Signature		Firi	n		nd Ass	ociates	Inc				

Boring: MW-3D	Site: former Natural Cleaners							I	Page	2 of	2
Sample g							So	il Prope	rties		
Number and Type Length Att. & Recovered (in) Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
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3 26	Gray Silty Clay, trace coarse sand to fine gravel, sl moist.				0.7						
5 30	- 29' to 32' silt and fine sand seams				1.1						
32 34											
5 36					1.4						
38 40					1.5						
42					1.5						
5 44					0.9						
48											
52	End of Boring at 50 feet. Boring converted to monitoring well.										
<u> </u>											
58											
60 62											

Boring: MW-3D Site: former Natural Cleaners

Page <u>2</u> of <u>2</u>

SOL	BORING	LOG	INFORM	IATION

Form 4400-122

Rev. 7-98

Route To:	Watershed/Wastewater 🗍 Waste Management	
	Remediation/Revelopment 🔀 Other 🗌	

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SOIL BORING LOG INFORMATION

Department of N	latural Resou	rces				Form 4	400-122	2		Rev. 7-	98	
	Route To		Management Other]	Page	1 of	2
Facility/Project	Name form	er Natural Cleaners	License/Pern	nit/Monite	oring Nu	mber		Bo	ring Nu		MW-	5
Boring Drilled E			Date Drilling	Started		Date D	rilling C	omplet	ed	Drilling	g Metho	
	Adam/Dan	Last Name:	<u>0 3 1</u>	<u>5 2 0</u>	<u>1</u> <u>7</u>	<u>0</u> <u>3</u>	<u>1</u> <u>5</u>	<u>2</u> <u>0</u>	<u>1</u> <u>7</u>		-	e then HSA
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Facility ID	341140250	County Milwaukee Cou	unty Code 41	Civil T	'own / C	ity / or <u>\</u>	/illage	Baysic	le			
Sample								So	il Prope	rties		
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	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
		Asphalt over Brown gravel base rock Dark Brown Sandy Gravel, some fines.				2.4						
3	- 2	2 Tan Gravel Base Rock.										
	2	-1' Dark Brown Silty Clay, trace med sand.				1.3						
		-2' Brown Silty Clay, mod soft, sl moist				4.1						
		5 'Brown Silt Clay, trace med to coarse san gray stringers, sl moist.	na,			4.1						
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						3.2						
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5	- 1	2										
	1	- silt and fine sand seam				430						
		Gray Silty Clay, trace med sand, sl mois	st									
		6										
2	1	8				520						
	2	0				333						
	2	2										
I hereby cert	ify that the ir	formation on this form is true and correct to th	he best of my	knowledg	ge.]	l		
Signature	-			Firm	PRG ai	nd Ass	ociates	, Inc.				

Site:	forme	er Natur	al Cleaners Boring: MW-5							I	Page	2 of	2
Sample		ace)							So	il Prope	rties		
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			from above										
		24	Gray Silty Clay, trace med sand, sl moist.				510						
		- 26	End of Boring at 25 feet.										
		28	Boring converted to monitoring well.										
		30											
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Site: former Natural Cleaners Boring: MW-5

Page 2 of 2

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To:	Watershed/Wastewater		Waste Ma	nagement	
	Remediation/Revelopm	ent [X Other		

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To:

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To:

To: Watershed/Wastewater
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Other

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

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Route To:

Watershed/Wastewater	Waste	Management	

Remediation/Revelopment 🛛 Other 🔲 ____

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SOIL BORING LOG	INFORMATION
Form 4400-122	Rev. 7-98

Route To: Watershed/Wastewater 🗌 Waste Management 🗌

Remediation/Revelopment 🛛 Other 🔲 ____

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SOIL BORING	LOG INFORMATIO	N
Form 4400-122	Rcv. 7-98	

Route To:	
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Watershed/Wastewater 🗌 Waste Management 🗌 Remediation/Revelopment 🗹 Other 🗌 _____

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SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Route To:

Watershed/Wastewater
Waste Management
Remediation/Revelopment Other

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SOIL BORING LOG INFORMATION

Departmen	Department of Natural Resources																Form 4	400-	122					Rev	. 7-9	98		
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Facility/Pro	oject N	lame	forme	r Natu	ıral C	Clean	ers			Lie	cense	/Permi	/Mon	itor	ing l	Nur	nber				Bor	ing				GP-1	_	
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Facility ID 341140250 County Milwaukee C											y Coc 41	le	Civil	l To	wn /	Ci	ty / or <u>\</u>	Villa	<u>ge</u>	Bay	side							
Sample 3																				Soi	l Pro	oper	ties			_		
Number and Type Length Att. &	Recovered (in)	Blow Counts	Depth in Feet (below ground surface)		Soil/Rock Description And Geologic Origin For Each Major Unit							USCS	Graphic	Log	Well	Diagram	PID/FID	Compressive	Strength	Moisture	Content	Liquid	Limit	Plasticity	Index	P 200	RQD /	Comments
	4	Gravel and Fill, clay brick, sl moist. Gravel, sl moist. 2 Gravel, sl moist. - 2															0											
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			18	Boring converted to well.																								
			20 22																									
I hereby Signatu	<i>.</i>	fy that	t the info	ormatio	n on tl	his for	m is tr	ue and	correct	to the	best o	of my k Fii	m	U			1.4	· ·									<u> </u>	
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SOIL BORING LOG INFORMATION

Department of N	Vatural Reso	ources								For	m 44	00-122	2			Rev.	7-9	8		
	Route T			Vastewater Redevelopmen		Manage Other]												
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Facility/Project 1	Name for	mer N	Natural Cl	eaners		License	e/Permit	/Monito	oring N	umber	r		Ŀ	Boring	g Nur	nber	(GP-12	2	
Boring Drilled E First Name: I	By: Name of Dan			ast) and Firm		Date D	rilling S	started				illing C	-			Drill	ing	Metho		
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Facility ID	34114025	0	County	Milwaukee	Co	unty Co 41	de	Civil T	'own /	City /	or <u>V</u>	illage	Bays	ide						
Sample		ace)											S	Soil P	roper	ties				
Number and Type Length Att. & Recovered (in)	Blow Counts Depth in Feet	(below ground surface)	P	Soil/Rock Des And Geologic C Each Major	rigin For		USCS	Graphic Log	Well	DID/EID	riu/riu	Compressive Strength	Moisture	Content Liquid	Limit	Plasticity	Index	P 200	RQD / Comments	
4 4 3	4 2 Black Top Soil, clayey, sl moist 4 2 Dark Reddish Brown Silty Clay and gravel, organics, dry - Silt layer 4 6 Brown Silty Clay, trace sand and 4 6 It gray stringers, dry. 4 6 Gray Silty Clay, trace med to consand and fine gravel, moist.																			
		16 18 20 22	Boring co	ring at 15 feet. nverted to well																
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SOIL BORING LOG INFORMATION

Department of Natural Resources			Form 4400-122		Rev. 7-98	
Route To: Watershed / Wastewater Waste Remediation / Redevelopment	Management Other]				
	.				Page <u>1</u> of	f <u>1</u>
Facility/Project Name former Natural Cleaners	License/Permit	/Monitoring N	umber	Boring Nu	^{mber} GP-1	13
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Dan Last Name: Bendorf	Date Drilling S		Date Drilling C	-	Drilling Method	
Firm: PROBE Technologies	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{0}{m} \frac{9}{m/d} \frac{2}{d} \frac{5}{d/d}$	$\underset{y}{\underline{2}} \underbrace{0}_{y} \underbrace{1}_{y} \underbrace{1}_{y} \underbrace{3}_{y}$	Geo	oprobe
WI Unique Well No. DNR Well ID No. Well Name GP-13	Final Static Wa	ater Level Feet MSL	Surface Elevation		Borehole Diar	inches
Local Grid Origin (estimated:) or Boring Location State Plane N, E SW 1/4 of SE 1/4 of Section 5 , T 8 N, R 22 E	Lat Long		Local Grid	Location N Feet S		E FeetW
Facility ID 341140250 County Milwaukee Co	ounty Code 41	Civil Town / G	City / or <u>Village</u>	Bayside		
Sample				Soil Prope	rties	
Sample Number and Type Soil/Bock Description And Counts Blow Counts Blow Counts Blow Counts Blow Counts Each Major Unit	USCS	Graphic Log Well Diaoram	PID/FID Compressive Strength	Moisture Content Liquid Limit	Plasticity Index P 200	RQD / Comments
4 2 Grass over black top soil, clayey 4 2 Dark Reddish Brown Silty Clay, trace and gravel, organics, dry 4 4 4 4 6 - begin moist			0 0 0 0 0 0			
4 - begin no stringers			0			
Gray Silty Clay, trace sand and gravel, trace rust mottling, moist.	,		0			
3 14			0			
Image: 16 in the second sec						
I hereby certify that the information on this form is true and correct to Signature	the best of my k	m	and Associates	Inc		

SOIL BORING LOG INFORMATION

Department of N	Natural 1	Resource	S								Form 4	400-12	22				Rev.	7-9	8		
	<u>Ro</u>		Watershed / Waste Remediation / Rec		Waste	Manager Other]				_									
						-											-	1	of	1	_
Facility/Project	Name	former	Natural Clear	ners		License	/Permit	/Monite	oring l	Nur	nber			Bor	ing	Nun	nber	(GP-14	1	
	By: Nan _{Dan}		w chief (first,last) Last Name: Bendorf	and Firm		Date D	rilling S	tarted			Date D	rilling	Comj	plete	d		Drilli	ng	Metho	d	
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Facility ID	34114	40250	County M	ilwaukee	Co	unty Co 41	le	Civil T	'own⊅	/ Ci	ty / or <u>V</u>	/illage	Ba	yside	e						
Sample		ace)												Soi	1 Pro	opert	ties				
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	And	l/Rock Description Geologic Origin F Each Major Unit			USCS	Graphic Log	Well	Diagram	PID/FID	Compressive Strength	Moisture	Content	Liquid	Limit	Plasticity	Index	P 200	RQD / Comments	
			Asphalt over b	brown gravel base	rock, c	lry.					5.2										
4		2	Brown Silt and	d Clay, moist.							45										
		— 4	- lumber, glas	ŝs							23.1										
4		6	Dark brown S	ilty Clay, trace me	ed sand	,					8.2 4.4										
		- 6	slightly moist.																		
		- 8	Brown Silt Cla lt gray stringer	ay, trace sand and rs. sl moist.	gravel	,					5.8 4.1										
4		- 10	8 9 9 8	.,							5.1										
		10	- begin no str	ingers																	
		12								_	2.7							-			
			End of boring Boring abando	at 16 feet. oned upon comple	etion.																
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	tify that	the info	rmation on this fo	rm is true and cor	rect to	the best			ge.				1								
Signature							Fir	m K	PRG	an	d Ass	ociate	es, Ir	ıc.							

SOIL BORING LOG INFORMATION

Department of Natural Resources					Form 4	400-122	2			Rev. 7	-98	
Route To: Watershed / Wastewater Waste Remediation / Redevelopment Image: Compared to the second secon	Managemer Other					_						
											<u>1</u> of	1
Facility/Project Name former Natural Cleaners	License/Pe	ermit/N	Monito	ring Ni	imber		В	oring	Nun	nber	GP-1	5
Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Dan Last Name: Bendorf	Date Drilli	-				rilling C	-			Drillin	g Metho	
Firm: PROBE Technologies	$\begin{array}{ccc} \underline{0} & \underline{9} & \underline{2} \\ m & m / & d \end{array}$	<u>5</u> d/y	$\frac{2}{y}$	<u>1</u> <u>3</u> y y	$\frac{0}{m} \frac{9}{m/m}$	$\frac{2}{d} \frac{5}{d}$	$\frac{2}{y} \frac{0}{y}$	<u>) 1</u> y	<u>з</u> у		Geo	probe
WI Unique Well No. DNR Well ID No. Well Name no well	Final Statio		er Leve Feet M	1		e Elevati				Boreh	ole Dian 2	neter inches
Local Grid Origin (estimated:) or Boring Location State Plane N, E SW_1/4 of SE_1/4 of Section 5, T_8 N, R_22 E	La Long				Lo	cal Grid	Locati <u>F</u> ee		N S			Feet W
Facility ID 341140250 County Milwaukee Co	ounty Code 41	(Civil T	own / C	City / or Y	Village	Baysi	de				
Sample							S	oil Pr	oper	ties	1	
Sample Number and Type Soil/Bork Description And Counts Blow Counts Blow Counts Blow Counts Blow Counts Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture	Liquid	Limit	Plasticity Index	P 200	RQD / Comments
Asphalt over Brown gravel base rock					5.6							
4 Dark Brown Silty Clay, trace med sand slightly moist.	d,				39.5	-						
					9.2							
3 6					5.3	-						
- gravel/cobble Brown Silty Clay, trace sand and grave	el,				3.3							
4 It gray stringers 8-9 feet.					3.2							
12					2.6			_				
End of boring at 12 feet. Boring abandoned upon completion.						-						
16												
20												
22												
I hereby certify that the information on this form is true and correct to Signature	the best of n	ny kno Firm			nd Ass	ociates	Inc					

SOIL BORING LOG INFORMATION

Department of N	Vatural Resource	es					Form 4	400-122			F	Rev. 7-	98	
		Watershed / Wastewater Waste Remediation / Redevelopment 🗸	Manageme Other	ent]			_						
								-				_	lof	1
Facility/Project	Name forme	r Natural Cleaners	License/F	Permit	/Monito	ring Nu	ımber		В	oring	Numł	ber	GP-1	б
		w chief (first,last) and Firm Last Name: Bendorf	Date Dril	ling S	tarted			rilling C	-			Drilling	g Metho	d
	Technologies	Last Name: Bendori	$\frac{0}{m} \frac{9}{m/d}$	$\underline{3} \underline{0}_{d/}$	$\frac{2}{v} \frac{0}{v}$	$\frac{1}{y}$ $\frac{3}{y}$	$\frac{0}{m} \frac{9}{m/m}$	$\frac{3}{d} \frac{0}{d}$	$\frac{2}{v} \frac{0}{v}$	<u>v</u>	v <u>3</u>		Geo	probe
WI Unique Well		/ell ID No. Well Name GP-16	Final Stat	tic Wa		el		e Elevati				Boreho	le Diam 2	inches
Local Grid Orig State Plane SW 1/4 of	in (estimated: SE 1/4 of S	N, E	L Lor	.at 1g			Lo	cal Grid	Locati <u>F</u> ee		N S			Feet W
Facility ID	341140250	County Milwaukee Co	ounty Code 41		Civil T	own / C	City / or	Village	Baysi	de				
Sample	ace)								S	oil Pro	operti	es		
Number and Type Length Att. & Recovered (in)	Blow Counts Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Limit	Plasticity Index	P 200	RQD / Comments
2 3 3	2 4 6 8 10 12 14 16 18 20 22	Upper portion of boring excavated with hydro-jet for utility clearance. Brown Silty Clay, trace med sand, slightly moist. - some gray mottling Gray Clay, trace med to coarse sand, moist. End of boring at 15 feet. Boring converted to well.	h											
I hereby cert	tify that the info	ormation on this form is true and correct to	the best of	my kı	nowledg	je.	1	I						
Signature				Firi	ⁿ KI	PRG a	nd Ass	ociates	, Inc.					

SOIL BORING LOG INFORMATION

Department of N	Vatural R	esources										F	orm 44	400-1	22				Rev	. 7-9	8		
	Route		/atershed / V emediation			Waste	Manage Other	ment]														
							1.	(D)				1	1			D			-	1	of	1	
Facility/Project	Name f	ormer 1	Natural C	leaners			License	e/Permit	/Moni	itor	ng Ni	umt	ber			Во	ring	Nun	nber		GP-1	7	
Boring Drilled E	By: Name _{Dan}			last) and Fi	irm		Date D	rilling S					Date Dr	-		-			Dril	ling	Metho		
Firm: PROBE			struine. De				$\frac{0}{m} \frac{9}{m}$	$\frac{3}{d} \frac{0}{d}$		<u>0</u> ,	<u>1</u> <u>3</u>	<u>s</u> (<u>0</u> <u>9</u> m_m/	<u>3</u> d d	<u>)</u> <u>2</u> y	<u>у</u>	<u>1</u> у	<u>з</u> у			Geo	probe	
WI Unique Well	l No. E	ONR We	ll ID No.		l Name GP-17			tatic Wa		evel			urface		tion	et M			Bor	ehol	e Diam 2		nches
Local Grid Orig State Plane SW 1/4 of		mated: /4 of Sec) or Borin N, ction 5	g Location	E	E E	L	Lat .ong					Loc	al Gri	d Lo	catio Feet		N S				Feet	E W
Facility ID	341140	250	County	Milwaul	kee	Co	ounty Co 41		Civil	То	wn / (City	/ or <u>V</u>	illage	Ва	iysid	e						
Sample		Deptn In Feet (below ground surface)				I									_	So	il Pr	oper	ties				
Number and Type Length Att. & Recovered (in)	Blow Counts	Description gic Origin Fo Aajor Unit			USCS	Graphic	Log	Well Diagram	umguu	PID/FID	Compressive	Moisture	Content	Liquid	Limit	Plasticity	Index	P 200	RQD /	Comments			
1.5 2 0 4		-2 -4 -6 -8 -10 -12 -14 -16 -18 -20 -22	bydro-jet Brown Si some It gu - begin n Brown Cl - some g Gray Clay	for utility of ilty Clay, tr ray stringer to stringers lay, trace n ray mottlin	r med to coars rs, moist. ned sand, mo g d sand, very feet.	se san	d,	-					0 0 0 0 0										
I hereby cert Signature	tify that t	he inforr	nation on th	nis form is t	true and corre	ect to	the best	of my ki Fir	m	0							·						
-									ŀ	SP.	KĠ a	and	l Asso	ociat	es, I	nc.							

SOIL BORING LOG INFORMATION

Rev. 7-98

Form 4400-122

	Ro			tershed / Waste nediation / Red	ewater 🗌 Wa levelopment 🗸	aste	Manage Other]				_							
																			lof	<u> </u>
Facility/Proje	ct Name	former	r Na	atural Clean	ers		License	e/Permit	/Monito	oring	g Nui	nber			Bo	ring N	Juml	ber	GP-18	8/V
Boring Drille	d By: Nar	ne of cre	w ch	nief (first,last)	and Firm		Date D	rilling S	tarted			Date D	rilling	Com	plete	ed	Γ	Drilling	g Metho	d
First Name:	Dan		Last N	Name: Bendorf			<u>1</u> <u>0</u>		<u>2</u> <u>0</u>		<u>5</u>	<u>1</u> <u>0</u>	<u>0</u> 1	2	<u>0</u>		5		Geopre	obe
Firm: Probe		DNR W	/ell I	D No	Well Name			d d/		y el	у	m m		l/ y	у	у	y F	Roreho	le Diam	eter
-					GP-18/V				Feet M					Fe	et M		L		2	inches
State Plane				or Boring Loc N,	E		Ι.	Lat			_	Lo	cal Gri			1	N			E
<u>SW</u> 1/4 o	f <u>SE</u>	_1/4 of S	Section	on <u>5</u> , T	<u>8</u> N, R <u>2</u> 2	E		ong			-				Feet		8 _			Feet W
Facility ID	3411	40250		County Mi	ilwaukee	Co	unty Co 41		Civil 7	Town	n / Ci	ity / or <u>'</u>	Village	Ba	ysid	e				
Sample	-	face)												-	So	il Proj	perti	es		
Number and Type Length Att. &	Blow Counts	Depth in Feet (below ground surface)		And C	/Rock Description Geologic Origin For ach Major Unit			JSCS	Graphic Log	Well	Diagram	PID/FID	Compressive Strength	Moisture	Content	Liquid	Limit	Plasticity Index	P 200	RQD / Comments
	4 8	Цę		Asphalt over s	andy gravel			n	L O	2	Д	<u>с</u> 0	0 0		0	<u>,</u> ,		Ч Ц	Р	M O
				•	ilty Clay, trace grave	el sl	moist					0								
3		<u> </u>		Durk Diowii D	nty Chuy, theo grave	, 51	monst.					0								
				Brown Silty C	lay, trace organics, s	1 mc	oist.					0								
		— 4		- soft, peat								0								
				•	ay mottled Clay, sl n	noist	t.					0								
4		— 6		- silt and fine								0								
		8		Brown Silty C	lay, some gray string	gers.						0								
2		— °										0								
		10										0								
		10																		
		12		End of Boring	at 10 feet.															
		14		Boring comple	eted as soil vapor pro	be.														
		<u> </u>											-							
		10																		
		<u> </u>																		
		20																		
		20																		
		- 22																		
I hereby a	ertifv tha	t the info	orma	tion on this for	rm is true and correc	t to 1	the best	of mv k	nowled	ge.			1	_						I
Signature	-	NAN /	1	101				Fir	m											
	-	tall (elt						K	PR	G ar	nd Ass	ociate	es, I	nc.					

SOIL BORING LOG INFORMATION

Rev. 7-98

Form 4400-122

	<u>Ro</u>			ershed / Wa nediation / R		water Wa	ste	Manage Other]					-								_
																						lof	1
Facility/Proje	ct Name	former	r Na	atural Clea	ane	ers		License	e/Permit	/Mon	ito	ring	Nur	nber				Bor	ing N	Num	nber	GP-1	9/V
Boring Drille	d By: Nai	me of cre	w ch	ief (first,las	t) a	nd Firm		Date D	rilling S	tarteo	ł			Date D	rillin	g C	omp	lete	d		Drilling	g Metho	d
First Name:	Dan		Last N	ame: Bendo	orf			<u>1</u> <u>0</u>	<u>0 1</u>	2	<u>0</u>	<u>1</u>	<u>5</u>	<u>1</u> 0	0	1	2	<u>0</u>	1	<u>5</u>		Geopr	obe
Firm: Probe		ogies DNR W	/ol1 1	D No		Well Name			d d/				у	m m/	d	d/		у	У	у	Boreho	le Diam	atar
-						GP-19/V				Feet							Fee					2	inches
Local Grid O State Plane SW 1/4 o		stimated: 1/4 of S		N		ation <u>E</u> 8 N, R 22	Е	L	Lat					Loo	cal G	rid l		atior Feet]	N S			E Feet W
Facility ID		40250		County		waukee	-	unty Co	de	Civi	1 T	own	/ Ci	ity / or <u>v</u>	Villag	<u>ge</u>	Bay			5_			<u>rect</u> w
Sample						wuukee		41	1						1				l Pro	nort	iac		1
	s	et surface		S	oi1/I	Rock Description									a)			301	I FIO	pen	105		
Number and Type Length Att. &	Blow Counts	Depth in Feet (below ground surface)			d G	eologic Origin For ach Major Unit			USCS	Graphic	Log	Well	Diagram	PID/FID	Compressive	Strength	Moisture	Content	Liquid	Limit	Plasticity Index	P 200	RQD / Comments
				Asphalt ove	r sa	ndy gravel								0				-					
		2		Brown Silty	Cla	ay, trace gravel, sl n	nois	t.						0									
3		_ 2		Dark Brown	n Sil	lty Clay, some stain	ing	of						0									
		4	i	black and g	ray,	trace organics								0									
		4		- gray										0									
		6		Brown and	Gra	y mottled Clay, sl m	noist	t.						0									
4		0												0									
		8		Brown Silty	Cla	ay, some gray string	ers.							0									
2														0									
		10												0									
		12		End of Bori	ng a	at 10 feet.																	
		<u> </u>		Boring com	plet	ed as soil vapor pro	be.																
		— 16																					
		<u> </u>																					
		20													-								
		22																					
I hereby c	ertify that	t the info	orma	tion on this	forr	n is true and correct	to	the best	of my k	nowle	edg	e.								1			L
Signature		DAR (elt						Fir		KF	PRC	b ar	nd Ass	ocia	tes	, In	c.					

SOIL BORING LOG INFORMATION

Department of Na	atural	Resource	es					Form 4	400-122	2		Rev. 7	.98	
	<u>Rot</u>		Watershed / Wastewater Waste Remediation / Redevelopment	Manage Other	ment]						Dago	1 of	1
Facility/Project N	Jame			License	e/Permit	Monito	ring Nu	nhor		B	oring N	Page		
			r Natural Cleaners				ing ivu				-		GP-2	
	y: Nan _{dam/Dan}		ew chief (first,last) and Firm Last Name:		rilling S				rilling C	-			g Metho	
Firm: Horizon ($\frac{0}{m} \frac{3}{m}$	$\begin{array}{cc} \underline{1} & \underline{5} \\ d & d \end{array}$	$\frac{2}{y} \frac{0}{y}$	$\frac{1}{y} \frac{7}{y}$	$\frac{0}{m} \frac{3}{m/m}$	$\frac{1}{d} \frac{5}{d}$	$\frac{2}{y}$ $\frac{0}{y}$	<u>1</u> 7	-	Geo	probe
WI Unique Well	No.	DNR W	Vell ID No. Well Name	Final S	tatic Wa				e Elevati	on			ole Diam	
			no well			Feet M	SL			Feet M			2	inches
Local Grid Origin State Plane SW 1/4 of		timated: 1/4 of S	N, E	L	Lat .ong			Loo	cal Grid	Locatio <u>F</u> ee	N			Feet W
Facility ID	34114	40250	County Milwaukee Co	ounty Co 41	de	Civil T	own / C	ity / or <u>v</u>	/illage	Baysic	le			
Sample		face)								So	oil Prop	erties		-
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			Asphalt over Brown gravel base rock											
4		2	Dark Brown Clayey Gravel, some sand	1.				1.9						
			Tan Gravel Base Rock.											
		— 4	-2' Brown Silty Clay, trace med sand, mod	d stiff,				1.6						
			some gray stringers, sl moist.					5.6						
5		<u> </u>						510						
		- 8												
		- 8						0.9						
		10												
2			- no stringers					1.2						
		12												
			End of boring at 12 feet.											
		- 14	Boring abandoned upon completion.											
		- 16												
		10												
		- 18												
		20												
		22												
	fy that	the info	ormation on this form is true and correct to	the best			e.					-		
Signature					Fir	m vi		d Ass	aniatan	Inc				

KPRG and Associates, Inc.

SOIL BORING LOG INFORMATION

Department of Natural Resources					Form 4	400-122			Rev.	7-98	
Route To: Watershed / Wastewater Waste Remediation / Redevelopment	Management Other	ıt 🗌							Page	1 of	· 1
Facility/Project Name former Natural Cleaners	License/Per	rmit/Mo	nitor	ring Nu	nber		Bo	ring N	umber	GP-2	
Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drillin	ng Starte	he		Date Dr	rilling (omplet	ed	Drill	ing Meth	
First Name: Adam/Dan Last Name:		<u>5</u> 2		<u>1</u> <u>7</u>		<u>1 5</u>	-			-	oprobe
Firm: Horizon Construction	m m/d	d/ y	У	у у	m m/	d d/	у у	y y			-
WI Unique Well No. DNR Well ID No. Well Name no well	Final Static		Leve et MS		Surface	Elevati	on Feet M	SL	Bore	hole Diar 2	neter inches
Local Grid Origin (estimated:) or Boring Location State Plane N, R SW 1/4 of SE 1/4 of Section 5 , T 8 N, R 22 E	Lat Long				Loc	al Grid	Locatio Fee	N			Feet W
Eacility ID County Co	ounty Code		J1 T.	/ Ci	ty / or <u>V</u>	V:11.0 mg					<u>w</u>
341140250 County Milwaukee	41	CIV	/11 1 (Jwii / Ci	ty / or <u>v</u>	mage	Baysic	e			
Sample (9)							Sc	il Prop	oerties		_
Sample Sample Source (iii) Source of the second start acts of the secon	5 U 5 II	U S C S Graphic	Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity	P 200	RQD / Comments
Asphalt over Brown gravel base rock				, , ,			, , ,	, , ,			
2 Dark Brown Clayey Gravel, some sand	1.										
Tan Gravel Base Rock.					8.9						
-2' Dark Brown Silty Clay, trace med sand	1.										
Brown Silty Clay, trace med sand.											
Brown Silt Clay, mod stiff, trace med s	sand,				33						
4 gray stringers, sl moist.											
- fine sand and silt layer 2"					31.7						
10											
2					55						
12									_		
End of boring at 12 feet.											
Boring abandoned upon completion.											
16											
22											
I hereby certify that the information on this form is true and correct to t		ny know	ledge	e.							

Signature Firm

KPRG and Associates, Inc.

SOIL BORING LOG INFORMATION

Department of N	Natural I	Resource	res					Form 4	400-122	2			Rev. 7-	-98	
	<u>Rou</u>		Watershed / Wastewater Wastewater Wastewater Wastewater Wastewater	e Manago Other]			-			D	2000	1 of	1
Facility/Project	Name	6		Licens	e/Permit	/Monito	ring Nu	umber		В	oring				
			r Natural Cleaners								-			GP-2	
	∃y: Nam Adam/Dan		ew chief (first,last) and Firm Last Name:		Drilling S		1 7		rilling C	-			Drilling	g Metho	
Firm: Horizon	Constru	uction		<u>0</u> <u>3</u> m_m/	<u>1</u> <u>5</u> d d/	<u>2</u> <u>0</u> y y	<u>1</u> 7 y y	<u>0</u> <u>3</u> m m/	<u>1</u> <u>5</u> d d/	<u>2</u> 0 y y	<u>1</u> у	у <u>/</u>		Geo	probe
WI Unique Wel	l No.	DNR W	Vell ID No. Well Name no well	Final S	Static Wa	ter Leve Feet M		Surfac	e Elevati	on Feet M	1SL	-	Boreho	le Dian 2	inches
Local Grid Orig State Plane SW 1/4 of		imated: 1/4 of S	N,E		Lat Long			Lo	cal Grid	Location <u>F</u> ee		N S			Feet W
Facility ID	34114	0250	County Milwaukee C	County Co 41		Civil T	own / C	City / or	Village	Baysio	le				
Sample		ace)								Se	oil Pro	opert	ties	-	
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Limit	Plasticity Index	P 200	RQD / Comments
3.5		-2 -4 -6 -8 -10 -12 -14 -16 -18 -20	Boring abandoned upon completion.	nd. nd.				41 49 56 4.1							
I hereby cer	tify that	- 22 the info	formation on this form is true and correct to	o the best	of mv k	nowledg	e.								
Signature	- j ulut				Fir	m		nd Ass	ociates	s, Inc.					

SOIL BORING LOG INFORMATION

Department of Natural Resources					Form 4	400-122	2		Rev. 7-	-98	
Route To: Watershed / Wastewater Wastewater Remediation / Redevelopment ✓	e Manager Other	nent]						_		
									Page	<u>1</u> of	1
Facility/Project Name former Natural Cleaners	License	/Permit	/Monito	ring Nu	mber		Bo	oring Nu	ımber	GP-2	3
Boring Drilled By: Name of crew chief (first,last) and Firm	Date Dr	rilling S	tarted		Date D	rilling C	omplet	ed	Drillin	g Metho	od
First Name: Adam/Dan Last Name: Firm: Horizon Construction			<u>2</u> <u>0</u>	<u>1</u> <u>7</u>	<u>0</u> <u>3</u>	<u>1</u> <u>5</u>	<u>2</u> 0	<u>1</u> <u>7</u>	<u>,</u>	Geo	probe
WI Unique Well No. DNR Well ID No. Well Name			y y ter Leve		m m/ Surface	e Elevati		у у		le Diam	neter
no well			Feet M				Feet M	1SL		2	inches
Local Grid Origin (estimated:) or Boring Location					Lo	cal Grid	Locatio				
State Plane N, E SW 1/4 of SE 1/4 of Section 5 , T 8 N, R 22 E		Lat ong					Fee	N t S			E Feet W
Eacility ID County IC	County Cod		Civil T	own / C	ity / or <u>v</u>	Village					<u></u>
341140250 County Milwaukee	41		CIVII I	own / C	ny / 01 _	v mage	Baysic	le			
Sample (a)							So	oil Prop	erties	1	
Sample Sample Sample And Cologic Origin For Each Major Unit B D D D D D D D O B D D D D D D D D D D D D D D D D D D D						sive					ts
$\frac{1}{2} \frac{1}{2} \frac{1}$		СS	hic	ram	FID	pres ngth	sture tent	id t	icity x	0	RQD / Comments
And Geologic Origin For and Type and Type and Type and Type and Type and Type and Type and Type and Cologic Origin For Each Major Unit		USC	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid	Plasticity Index	P 200	RQD /
Asphalt over Brown gravel base rock											
Dark Brown Clayey Gravel, some sar	nd.				1.2						
2.5 Tan Gravel Base Rock.											
Dark Brown Silty Clay, trace med sar	nd.				0.8						
-2' Brown Silty Clay, trace med sand.											
-5' Brown Silt Clay, mod stiff, trace coar	rse sand,				1.4						
gray stringers, sl moist.											
5 8											
					2.8						
2 10					0.9						
					0.9						
12											
End of boring at 12 feet.											
Boring abandoned upon completion.											
16											
						1					
20									1		
									1		
22									1		
	4-1-1	£ 1		<u> </u>							
I hereby certify that the information on this form is true and correct to Signature	o me best (Firi	m	e.	1 4	• ,	T				

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

KPRG and Associates, Inc.

SOIL BORING LOG INFORMATION

Department of N	Vatural I	Resource	es							Form 4	400-122	2		Rev.	-98	
	<u>Rou</u>		Watershed / W Remediation /	⁷ astewater □ Redevelopment √		Manage Other]			_					
T						Tr ·	(D)							_	1 of	1
Facility/Project	Name	former	Natural Cl	eaners		License	e/Permit	/Monito	ring Nu	imber		B	oring N	umber	GP-2	24
Boring Drilled H	By: Nam Adam/Dan		w chief (first,la Last Name:	ast) and Firm		Date D	rilling S	tarted			rilling C	Comple	ted	Drilli	ng Metho	od
Firm: Horizon			Last Ivanie.			$\frac{0}{m} \frac{3}{m}$	$\frac{1}{d} \frac{5}{d}$	$\frac{2}{y} \frac{0}{y}$	$1_{v} \frac{1}{v}$	$\frac{0}{m} \frac{3}{m/m}$	$\frac{1}{d} \frac{5}{d/d}$	$\frac{2}{v}$ $\frac{0}{v}$	<u>1</u>	7	Geo	oprobe
WI Unique Well			ell ID No.	Well Name no well				ater Leve Feet M	el		e Elevati				Borehole Diameter <u>2</u> inches Feet <u>E</u> W	
Local Grid Orig State Plane SW 1/4 of		imated: 1/4 of S	N,		_Е 22_Е		Lat ong			Lo	cal Grid	Location Fee	N			
Facility ID	34114	0250	County	Milwaukee	Co	unty Co 41	de	Civil T	own / C	City / or	Village	Baysie	de			
Sample		face)										S	oil Prop	erties		
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)		Soil/Rock Descripti nd Geologic Origin Each Major Unit	For		USCS	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid 1 ::t	Luuu Plasticity Index	P 200	RQD / Comments
3 5 2			Dark Brow Tan Grave -1' Dark Brow -3' Brown Silu gravel, gra - silt searr - no string End of bon Boring aba	ers ing at 12 feet. andoned upon comp	me fines med sand ice sand	l. and				1.8 0.5 1.7 2.9 1.7						
I hereby cert Signature	tify that	the info	rmation on thi	s form is true and co	orrect to	the best	of my k Fir	m								
Signature							111	KI	PRG a	nd Ass	ociates	s, Inc.				

	Vatershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
ł	Cemcdiation/Redevelopment	Other	
Facility/Project Name	Local Grid Location of Well		Well Name
NATURAL CLEANERS	ft H	Nfr. 🗆 Efr. 🗇 W.	M = 1
Facility License, Permit or Monitoring No.	Local Grid Origin D (estimat	ed: []) or Well Location [Wis. Unique Well No. DNR Well ID No.
i como anoneo, i onne or moneoring no.			I was olinguo non no. porte ton to no.
	Lat'L	ong c	n <u> </u>
Facility ID	S1. Planeft_ N,	RE SICA	J Date Well Installed
			$\frac{12/21/2007}{mmddyyyy}$
Type of Well	Section Location of Waste/Sour	ce Kit	
	SW 1/4 of SE 1/4 of Scc.	5 T. 8 N.R. 22 1	N I I I I I I I I I I I I I I I I I I I
Well Code _MW /	Location of Well Relative to Wa	aste/Source Gov. Lot Number	TONY
Distance from Waste/ Enf. Stds.		Sidegradieni	
Sourceft Apply	d 🗆 Downgradient n 🗖	-	ON-SITE ENVIRONMENTAL
		1. Cap and lock?	X Yes D No
A. Protective pipe, top elevation	ft_MSL		-
22 NS7-51	ft_MSL	2. Protective cove	
B. Well casing, top elevation		a. Inside diame	ter8 in_
C. Land surface elevation	ft. MSL	b. Length:	<u>1</u> fi.
C. Land suitace cievation		c. Material:	Steel 🛛 04
D. Surface seal, bottom fr. M	SLor I fL	C. Matchar.	
	E-376-37.7		Other 🛛 🎆
12. USCS classification of soil near scree		d. Additional p	rolection? 🖸 Yes 🗋 No
GPD GMD GCD GWD	SW I SP I \	If yes, deser	ibe:
SM C SC MLC MHC			Bentonite 🔲 30
Bedrock		3, Surface scal:	
13. Sieve analysis performed?	Yes X No		Concrete X 01
			Other 🛛 🔬
14. Drilling method used: Ro	ntary 🗆 50 🛛 👹	4. Material betwe	en well casing and protective pipe:
Hollow Stem A	uger 12(41)		Bentonite 🕅 30
	Diher 🗆 🎆	888 ·	Other 🛛 🎆
15. Drilling fluid used: Water [] 02	Air 🗆 01	5. Annular space	scal: a Granular/Chipped Bentonite X 33
			1 mud weight Bentonite-sand slurry 35
	None 🛛 99	cLbs/ga	1 mud weight Bentoniue slarry 🛛 31
		d % Bent	onite Bentonite-cement grout 50
16. Drilling additives used?	Yes X No		Fi ³ volume added for any of the above
		Koo	
Describe		f. How install	
17. Source of water (ausch analysis, if rec	nired):		Tremie pumped 🛛 02
			Gravity 🕅 08
			a. Beniunite granules [] 33
		b. □1/4 in.	$X3/8$ in. $\Box 1/2$ in. Bentonite chips $X 32$
E. Bentonite seal, topft. M	SLorlfL,	× / c	Other 🛛 🎬
F. Fine sand, 10p ft. M	SLor12ft	7. Fine sand mat	erial: Manufacturer, product name & mesh size
		圈/ / 。	
	SLor13 ft		
G. Filter pack, topfL M	SLOT DIL	b. Volume ad	dedf1 ³
		8. Filler pack ma	merial: Manufacturer, product name & mesh size
H. Screen joint, top ft. M	ISL or 15 ft.		
• ~		b. Volume ad	ided fi ³
I. Well bouom ft. M	ISLor25ft	9. Well casing:	Flush threaded PVC schedule 40 X 23
			Flush threaded PVC schedule 80 🛛 24
J. Filler pack, bollomft. M	ISL or Sti		Other 🛛 🎆
		10. Screen materi	
K. Borchole, bottom	ISL or ZSft.	a. Screen typ	
L. Borehole, diameter8 in.			
L. Borehole, diameter δ in.	,	\	Oiher 🛛 🎆
0		b. Manufacu	
M. O.D. well casing -2 in.		c. Slot size:	0. <u>01</u> 0 in.
	•	d. Slotted ler	
N. I.D. well casing2 in		• • • •	
		11. DECENII MEIO	
			Other 🗆 🎬
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge.	
Signature AS M	Firm	<u> </u>	
both HA	I KPK	G AND ASSOCIATE	5. Tur

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

1

	Vatershed/Wastewater		MONITORING WELL C Form 4400-113A	ONSTRUCTIC Lev. 7-98	ЭN
	Remediation/Redevelopment	N DE	Well Name ML/-	37	-
Facility License, Permit or Monitoring No.	ft. ☐ Local Grid Origin □ (estimat	ted: D) or Well Location D			
	Lat,'I	.ong in	r		
Facility ID	Si. Plancft. N,		Date Well Installed	912007	
Type of Well	Section Location of Waste/Sour	rce XII	(m ø	σ ν ν ν γ	7
Well Code _MW /	SW 1/4 of SE 1/4 of Sec.	5,T. 8 N.R. 22	TONY	(mor) mor) and 1.1	цш
Distance from Waste/ Enf. Stds.	I DCation of Well Relative to W	aste/Source Gov. Lot Number Sidegradierit		1	
Sourceft. Apply	d 🗆 Downgradient n 🗖		ON-SITE ENVIRO		
A. Protective pipe, top elevation	ft.MSL	1. Cap and lock?		X Yes 🗆 No	>
B. Well casing, top elevation	ft. MSL	2. Protective cove a. Inside diame		∈	n.
C. Land surface elevation	ft_MSL	b. Length:		<u>]</u> n	
D. Surface seal, bottom ft. M	And the second s	c. Material:		Steel 🕱 0	
12. USCS classification of soil near scree		d Additional -		Other 🗆 🚆	
GP C GMC CC GW C		d. Additional p	ibe:		,
SM C SC ML MHC		3. Surface scal:		Bentonite 🛛 3	30
Bedrock [] 13. Sieve analysis performed?	V- EX	5, Surface scal:		Concrete X 0	1
-	Yes X No			Other 🗆 📓	#
Hollow Stem A	uger 1250 ₩		en well easing and protective	pape. Bentonite 🛛 3	50
	Dither 🗆 📖			Other 🗆 🎽	
15. Drilling finid used: Water 🗆 0.2	Air 🗆 01	5. Annular space	scal: a. Granular/Chipped	Bentonite X 3	
	None 199	bLbs/ga	1 mud weight Bentomite-s 1 mud weight Bentom	and shurry 3	35 31
		cLos/ga	onite Bentonite-cen	nent grout 1	50
16. Drilling additives used?	Yes X No	e	Ft ³ volume added for any of	the above	
Describe		f. How install	ed:		01
17. Source of water (attach analysis, if rea	puired):		1180110	e pumped 🔲 (Gravity 🕱 (
		6. Bentonite seal	a. Bentonia	e granules 🔲 🔅	33
	1.	b. D1/4 in.	Ø3/8 in. □1/2 in. Bento		
E. Bentonite seal, topft. M	SLOTTL	c		Other 🛙 🛔	
F. Fine sand, top ft. M	SLor12ft	7. Fine sand mat	erial: Manufacturer, product	name & mesh s	ize
	13.	a		**	
G. Filter pack, top ft. M	SL or13 ft		dedfi ³ nerial: Manufacturer, produc		
H. Screen joint, top ft. M.	ISL or 15 fl	8. Filler pack in	ternar: Manufacturer, probuc		size
		b. Volume an		1	
L Well bonom	ISLor25ft	9. Well easing:	Flush threaded PVC sch		23
I. Filler pack, bollomft. M	ISLor 25ft		Flush threaded PVC sch		24
		10. Screen mater	ial: PVC		
K. Borchole, bottomft. M	ISL or25ft	a. Screen typ			11
L. Borchole, diameter8 in			Contin		01
		b. Manufactu		Other LI	<u>83</u>
M. O.D. well casing $\frac{2}{10}$ in		c. Slot size:		0.010	2 in.
2		d. Slotted les	-		_ fl.
N. I.D. well casing -2 in	•	11. Backfill mate	rial (below filter pack):	None 🛱 Other 🛛	14
I hereby certify that the information on the	is form is true and correct to the	best of my knowledge.			<u> 26 60</u>
Signature Mo	Firm	λ			
tolla	I KPK	G AND ASSOCIATE	5, المل	· · · · · · · · · · · · · · · · · · ·	

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

r i	Vatershed/Wastewater	Other []	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Local Grid Location of Well		Well Name
NATURAL CLEANERS	t []	N. $ft \square E$ S. $ft \square W$	MW-ZD
	Local Grid Origin 🗆 (estimat Lat"L	cd: 🗋) or WellLocation 🗖	Wis. Unique Well No. DNR Well ID No.
Facility ID		•	Date Well Installed
	S1. Plancft. N,		Date Well Installed
Type of Well	Section Location of Waste/Sour		mm <u>oovvvv</u>
Well Code MW /	SW 1/4 of SE 1/4 of Sec.	<u>5, T. 8 N, R. 22 DW</u>	- TONY
Distance from Waste/ Enf. Stds.	Location of Well Relative to Wa	aste/Source Gov. Lot Number Sidegradien1	
Sourceft. Apply	$d \square$ Downgradient $n \square$	-	ON-SITE ENVIRONMENTIAL
A. Protective pipe, top elevation		I. Cap and lock?	🛛 Yes 🗆 No
	1	2. Protective cover	
B. Well cating, top elevation	ft. MSL	a. Inside diamete	т8in_
C. Land surface elevation	ft_MSL	b. Length:	<u>]f</u> .
	1	c. Material:	Steel 🕱 04
D. Surface seal, bottom ft. M			Other 🛛 💹
12. USCS classification of soil near scree		d. Additional pr	
GP GM GC GW G SM G SC G ML G MH G		If yes, descri	x:
Bedrock		3. Surface scal:	Bentonite 🛛 30
13. Sieve analysis performed?	Yes 🛿 No		Concrete 🖾 01
1		A Material Latera	
Hollow Stem A	tary □ 50	4. Matchai Ociwoo	n well casing and protective pipe: Bentonite 🛛 30
	Dither		Other 🗆
		5 Ampler space s	cal: a Granular/Chipped Bentonite X 33
15. Drilling fiuid used: Water 🗆 0 2	Air 🗆 01	b. Ubs/cal	mud weight Bentomite-sand slurry 35
Drilling Mud 🗆 0 3	Nome 🛛 99	c. Lbs/gal	mud weight Bentonite slarry [] 31
16. Drilling additives used?	Yes X No	d% Bento	mite Bentonite-cement grout 🛛 50
		еF	³ volume added for any of the above
Describe		f. How installe	
17. Source of water (auach analysis, if rec	puired):		Tremie pumped 🖸 02
		6. Bentonite seal:	Gravity 🔀 08 a. Benicinite granules 🔲 33
	X		$\sqrt{3/8}$ in. $\Box 1/2$ in. Bentonite chips $\boxtimes 32$
E Bontonite seal, topft. M	SL orfL		Other 🛛 🎬
F. Fine sand, top ft. M	SLor37ft	7. Fine sand mate	rial: Manufacturer, product name & mesh size
		2	III
G. Filter pack, topft. M	SLor38 ft	b. Volume add	cdft ³
		8. Filler pack man	erial: Manufacturer, product name & mesh size
H. Screen joint, topft. M	SLor46 ft	- 2	
I. Well bouom ft. M	ISLor 45 ft	b. Volume add	
		9. Well casing:	Flush threaded PVC schedule 40 🔀 23 Flush threaded PVC schedule 80 🗌 24
J. Filier pack, bottomft. M	ISLor 45 ft		Flush threaded PVC schedule 80 24
		10. Screen materia	
K. Borchole, bottom ft. M	ISLor45ft	a. Screen type	
			Continuous slot 🛛 01
L Borehole, diameter8 in.			Other 🗆 🎆
		b. Manufactur	
M. O.D. well casing $\frac{2}{2}$ in.		c. Slot size:	0. <u>010</u> in.
		d. Slotted len	
N. LD. well casing $\frac{2}{2}$ in		11. Backfill mater	ial (below filter pack): None 🛱 14
Therefore and the day of the second			Other 🗆 🎬
I hereby certify that the information on the		best of my knowledge.	
Signature DA	Firm KPR	G AND ASSOCIATE	The
		C AND / LOSOLIARE	<u>عد ، ح</u>

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

	Vatershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
	I ocal Grid I ocation of Well		Well Name A / 2
NATURAL CLEANERS	ft	$\begin{array}{c} N \\ S \\ S \\ I \\ W \end{array}$	Weil Name Mk/-3
Facility License, Permit or Monitoring No.	Local Grid Origin D (estimat	ed []) or Well Location []	Wis. Unique Well No. DNR Well ID No.
	LatL		
Facility ID	3		Data Well Insuelled
	S1. PlancfL N,		
Type of Well	Section Location of Waste/Sour	ce Mr	
	SW 1/4 of SE 1/4 of Sec.	<u>5.T. 8 N.R. 22</u>	
Well Code MW /	Location of Well Relative to W:	aste/Source Gov. Lot Number	<u>10NY</u>
Distance from Waste/ Enf. Stds.		Sidegradient	ON-SITE ENVIRONMENTIAL
Sourceft. Apply []	d 🗆 Downgradient n 🗖		
A. Protective pipe, top elevation	ft_MSL	1. Cap and lock?	🖄 Yes 🗆 No
8 Well coring the alevania	ft_MSL	2. Protective cover	
B. Well casing, top elevation		a. Inside diamet	
C. Land surface elevation	fLMSL	b. Length:	$ \frac{1}{1}$ fl.
D. Surface seal, bottom ft. M		c. Material:	Steel 🔯 04
			Other 🛛 🌉
12. USCS classification of soil near scree		d. Additional pr	otection? 🛛 Yes 🗆 No
GP C GM C GC C GW C	SW I SP I	If yes, descri	be;
SM SC MLC MHC Bedrock			Bentonite 🖸 30
		3. Surface scal:	Concrete X 01
13. Sieve analysis performed?	Yes X No		Other 🛛 🔊
14. Drilling method used: Ro	ntany 🗆 50	4. Material betwee	n well casing and protective pipe:
Hollow Stem A	uger 12(41)	8 8	Bentonite 🕅 30
	Dither 🗆 🎆	×	Other 🗆 🎆
		5. Annular space s	
15. Drilling fluid used: Water 🗆 0 2	Air 🗆 01	h Lbs/sel	mud weight Bentonite-sand slumy 35
Drilling Mud 🗌 0 3	None 199 8	C Ubs/gal	mud weight Bentonite slarry [] 31
16 D-201			mite Bentonite-cement grout 1 50
16. Drilling additives used?	Yes No		³ volume added for any of the above
Descention		f. How installe	d: Tremie 🛛 01
Describe			Tremie pumped 🛛 02
17. Source of water (ausch analysis, if rec	lurea):		Gravity 🕅 08
		6. Bentonite seal:	
		b. □1/4 in.	X3/8 in. □1/2 in. Bentonite chips X 32
E. Beatonite seal, topft. M	SLorft	🕅 / c	Other 🛛 🎆
	17. 18	7 Eine sond mate	nial: Manufacturer, product name & mesh size
F. Fine sand, topfL M	SLor12A		
		2	
G. Filter pack, topft. M	SLor12ft	b. Volume add	edft ³
	15 1	8. Filler pack mat	erial: Manufacturer, product name & mesh size
H. Screen joint, top ft. M	ISL or15 ft	a	
T TT/-11 3 0. 34	ISL or _ 25 ft	b. Volume ad	
L Well bonom ft M	SLOT	9. Well casing:	Flush threaded PVC schedule 40 🗶 23
			Flush threaded PVC schedule 80 🖸 24
J. Filter pack, bottomfr. M	sla st		Other 🛛 🎬
	75.	10. Screen materia	
K. Borchole, bottom ft M	ISL orT	a. Screen type	÷ -
			Continuous slot 🔲 01
L. Borchole, diameter 8 in.	,	\	Oiher 🛛 🎆
2		b. Manufacus	ш
M. O.D. well casing $$ $\frac{2}{-}$ in		c. Slot size:	0.010 in.
~		d. Slotted len	gth:fl.
N. I.D. well casing $- \frac{2}{2}$ in		11. Backfill mater	ial (below filter pack): None 🔀 14
			Other 🛛 🎆
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge.	
Signature TOM	Firm	n h	
tal the	I KPK	G AND ASSOCIATE	S. Lilc

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	Watershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Remediation/Redevelopment X		Well Name
Former Natural Cleaners	Local Grid Location of Well	N. □E. Sft. □W.	MW-3D
Facility License, Permit or Monitoring No	Local Grid Origin 🔲 (estimat		Wis. Unique Well No. DNR Well ID No.
Facility ID 341140250	St. Plane ft. N,	ft. E. S/C/N	Date Well Installed $\begin{array}{c} 0 \\ m \\ m \\ m \\ \end{array}$ $\begin{array}{c} 1 \\ 5 \\ d \\ d \\ \end{array}$ $\begin{array}{c} 0 \\ y \\ y \\ y \\ \end{array}$
Type of Well	Section Location of Waste/Sour		Well Installed By: Name (first, last) and Firm
Well Code $11 / mw$	$\frac{\mathbb{SW}}{1/4 \text{ of } \mathbb{SE}} \frac{1/4 \text{ of Sec}}{1/4 \text{ of Sec}}$		A. Sweet
Distance from Waste/ Enf. Stds.	\Box	aste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply	$d \square Downgradient n \square$		Horizon Drilling
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	🖂 Yes 🗌 No
B. Well casing, top elevation	ft. MSL	2. Protective cover j a. Inside diamete	
C. Land surface elevation	ft. MSL	b. Length:	_ <u>1</u> _ ft.
		c. Material:	Steel 🖾 04
D. Surface seal, bottom ft. M			Other 🗆 🏬
12. USCS classification of soil near scree	an: 🔨 🖓 🖓	d. Additional pro	tection? 🗆 Yes 🗆 No
	SW 🗖 SP 🔲 🔪 🚺	If yes, describ	e:
	CL⊠CH□ \	3. Surface scal:	Bentonite 🗆 30
		S. Burrace scar.	Concrete 🖾 01
	Yes 🛛 No	×	Other 🛛 🧾
14. Drilling method used: Ro	otary □ 50	4. Material between	well casing and protective pipe:
Hollow Stem A			Bentonite 🖾 30
Geoprobe/HSA	Other 🖾 🎆	×	Other 🗆 🏬
		5. Annular space se	al: a. Granular/Chipped Bentonite 🖾 33
15. Drilling fiuid used: Water 0 2	Air \Box 01	bLbs/gal r	nud weight Bentonite-sand slurry 🛛 35
Drilling Mud 🗆 0 3	None 🗵 99	cLbs/gal r	nud weight Bentonite slurry 🗖 31
16. Drilling additives used?	Yes 🛛 No		ite Bentonite-cement grout \Box 50
		eFt	³ volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis, if rec	000	88	Tremie pumped \Box 02
			Gravity 🛛 08 a. Bentonite granules 🗖 33
	🎇	6. Bentonite seal:	
E. Bentonite seal, topft. M	SL or $___^1_$ ft.	b. 11/4 m. 1	$3/8$ in. $\Box 1/2$ in. Bentonite chips $\Box 32$ Other
F. Fine sand, top ft. M.	SL or 4^{3} _ ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
	SL or 43 _ ft.	a	
G. Filter pack, top ft. M	SL or = _ =	b. Volume added	
H. Screen joint, top ft. M	SL or 4^{5} _ ft.	a	ial: Manufacturer, product name & mesh size
T 117 11 1 A 1 F		b. Volume adde	
I. Well bottom ft. M	SL or $_50$ $_$ ft.	9. Well casing:	Flush threaded PVC schedule 40 🖾 2.3
J. Filter pack, bottom ft. M			Flush threaded PVC schedule 80 2 4
J. Filter pack, bottomic. M	s_{L} or $_$ $_$ $_$ $_$ $_$ $.$		Other 🗆 🚛
K. Borehole, bottom ft. M	SLor 50 fts	10. Screen material:	
		a. Screen type:	a . · ·
L. Borehole, diameter $\frac{8}{-}$ in.			
L. Borenole, diameter $$ in.		h Manufacture	Other 🗆 🔬
M. O.D. well casing in.		b. Manufacturer c. Slot size:	$0. \ 010$ in.
111. 0.15, went calling = - = - III.		d. Slotted length	
N. I.D. well casing $-\frac{2}{2} \cdot \frac{0}{2} - in$.		11. Backfill material	_
			Other 🗆 🧾
I hereby certify that the information on thi	s form is true and correct to the b	est of my knowledge.	
Signature	Firm		
0		nd Associates, Inc.	

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

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater	Waste Management 🔤
Remediation/Redevelopment	Other
	Milwaukee MW-3D
Facility License, Permit or Monitoring Number County Code	Wis. Unique Well Number DNR Well ID Number
 Can this well be purged dry? ∑ Yes □ No Well development method 	11. Depth to Water (from top of a <u>46.1</u> , <u>ft</u> , <u>50.3</u> , <u>ft</u> , ft .
surged with bailer and bailedImage: Surged with bailer and pumpedImage: Surged with bailer and pumped	well casing)
surged with block and bailedImage: 42surged with block and pumpedImage: 62surged with block, bailed and pumpedImage: 70	Date b. $\frac{05}{m}$ / $\frac{11}{d}$ / $\frac{2017}{y y y y}$ $05 \\ m m$ / $\frac{11}{d}$ / $\frac{2017}{y y y y}$ Time c. $\frac{12}{12}$: $\frac{45}{12}$ 14
compressed air□20bailed only□10pumped only□51	Time c. $\underline{12}$: $\underline{45}$ \Box p.m. $\underline{14}$: $\underline{05}$ \Box p.m. 12. Sediment in well $\underline{0}$ _ inches $\underline{0}$ _ inches
pumped slowly Other	bottom 13. Water clarity Clear \square 10 Clear \boxtimes 20 Turbid \boxtimes 15 Turbid \square 25
3. Time spent developing well80min.	(Describe) (Describe)
4. Depth of well (from top of well casisng) 50.3 ft.	
5. Inside diameter of well in.	
 6. Volume of water in filter pack and well casing gal. 	Fill in if drilling fluids were used and well is at solid waste facility:
7. Volume of water removed from well $2 \cdot 5$ gal.	14. Total suspended mg/l mg/l
8. Volume of water added (if any) gal.	solids
9. Source of water added	15. COD mg/l 16. Well developed by: Name (first, last) and Firm
10. Analysis performed on water added? I Yes INO (If yes, attach results)	First Name: Patrick Last Name: Allenstein Firm: KPRG and Associates, Inc.

17. Additional comments on development:

Name and Add First Name:	ress of Facility Contact /Owner/Responsible Party Last Name:	I hereby ce of my know	rtify that the above information is true and correct to the best vledge.
Facility/Firm:	former Natural Cleaners	Signature:	
Street:	8828 Port Washington Road	Print Name:	Patrick Allenstein
City/State/Zip:	Bayside, WI	Firm: -	KPRG and Associates, Inc.

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

	Vatershed/Wastewater		MONITORING WELL Form 4400-113A	CONSTRUC Rev. 7-98	TION
	Remediation/Redevelopment	Other			
	Local Grid Location of Well	N. DE	Well Name M	_/1	
NATURAL CLEANERS		St UW	1. (W -	<u> </u>	
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (estimat Lat'L	ted: □) or Well Location □			
Facility ID			The XX 11 Factor 11 - 5		
· · · · · · · · · · · · · · · · · · ·	S1. PlancfL N,		12/	201200	>7
Type of Well	Section Location of Waste/Soun	901	144 144		
Well Code _MW/	SW 1/4 of SE 1/4 of Sec.	5.T. 8 N.R. 22	The Instance Dy. Inde	to finge test) en	iu i iiii
Distance from Waste/ Enf. Stds.	illocation of well keislive to w	asle/Source Gov. Lot Number	TONY		
A		Sidegradient	ON-SITE ENVI	PONMENTIAL	ι
	d 🗆 Downgradient n 🗖				
A. Protective pipe, top elevation	fL MSL	1. Cap and lock?	•	🖄 Yes 🗆	NO
B. Well casing, top elevation	fLMSL	a. Inside diamet			2 :
C. Land surface elevation	fr. MSL	b. Length:	D].		<u>1</u> fl.
		c. Material:		Steel 🛛	
D. Surface seal, bottom ft. M	SLor ft.			Other 🗆	
12. USCS classification of soil near scree	n:	d. Additional p	rolection?	I Yes I	
GP I GM I GC I GW I		114 \	be:		1.0
SM C SC C MLC MHC				Bentonite	30
Bedrock 🗖	1 188	3, Surface scal:		Concrete X	-
13. Sieve analysis performed?	Yes X No			Other 🛛	1010-10
14. Drilling method used: Ro	itary 🗆 50	4. Material betwee	m well casing and protecti		<u> 1997 - 199</u>
Hollow Stem A			······································	Bentonite	30
	Other D			Other 🗆	
		5. Annular space	scal: a. Granular/Chipp		
15. Drilling fluid used: Water 🖂 0 2	Air 🗆 01	J. Annual space	mud weight Bentomite		•
Drilling Mud 🗔 0 3	None 💢 99	DLos/ga	mud weight Bent		31
			onite Bentonite-o		
16. Drilling additives used?	Yes X No		"t ³ volume added for any		50
		f. How install		Tremie 🗖	1 0 1
Describe				nie pumped 🗖	1 02
17. Source of water (auach analysis, if rea	puired):	88. In the second se		Gravity D	
		5. Bentonile seal:	a. Benior	uite granules [33
		b. □1/4 in.	⊠3/8 in. □1/2 in. Be	ntonite chips 🗷	I 32
E. Bentonite seal, topfr. M	SL or $__\1ft$	🛱 / c		Other D] 🎆
		7 Fine sand mate	nial: Manufacturer, produ	101 mame & me	sh size
F. Fine sand, top fr. M	SLor]2ft		and Theresters & Buges		2000
G Filtreneds ton	SLor 13 ft	2		3	
G. Filter pack, topft. M				•	
H. Screen joint, top ft. M.	SL or 15 ft	8. Piller pack ma	terial: Manufacturer, prod	uci name & me	
		b. Volume ad	dad i	<u>6</u> 3	
I. Well bottom fr. M	SLor 25 ft	9. Well casing:	Flush threaded PVC s		X 23
		J. Won Lasing,	Flush threaded PVC s	-	
1. Filier pack, bottom ft. N	ISLor 25 ft			Other [No.000
		10. Screen materi	al: PVC	Other L	- ***
K. Borchole, bottomft. M	ISL or 25 ft	a. Screen typ		Factory cut 2	s 11
				ninuous slot [
L. Borehole, diameter8 in		and		Other I	
		b. Manufactu	ст ст		
M. O.D. well casing $-\frac{2}{1-\frac{2}{1-\frac{1}{2}}}$ in		c. Slot size:		0.5	210 in.
		d. Slotted ler	igth:	-	fL
N. LD. well casing2 in		11. Backfill mate	nal (below filter pack):	None	X 14
	-		· · · · · · · · · · · · · · · · · · ·	Other [
I hereby certify that the information on th	is form is true and correct to the	best of my knowledge.			
Signature ASAN	Firm	Ν			
totil th	l KPk	G AND ASSOCIATE	5. IJr		

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

	Watershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Remediation/Redevelopment X		Well Name
Former Natural Cleaners	Local Grid Location of well	N. □ E. Sft. □ W.	MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (estimat		Wis. Unique Well No. DNR Well ID No.
Facility ID 341140250	St. Plane ft. N, Section Location of Waste/Sour	ft. E. S/C/N	Date Well Installed
Type of Well	$\frac{SW}{1/4}$ of $\frac{SE}{1/4}$ of Sec.		Well Installed By: Name (first, last) and Firm
Well Code/	Location of Well Relative to Wa		A. Sweet
Distance from Waste/ Enf. Stds.	u 🗆 Upgradient s 🗖	Sidegradient	Horizon Drilling
Sourceft. Apply	d 🗆 Downgradient n 🗖		
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	. Yes 🗆 No
- 81	ft. MSL	2. Protective cover a. Inside diamete	r: $-\frac{1}{4}$ in.
C. Land surface elevation	ft. MSL	b. Length:	$-\frac{1}{2}$ _ft.
D. Surface seal, bottom ft. MS	SLor ¹ ft.	c. Material:	Steel 🖾 04
12. USCS classification of soil near scree			
		d. Additional pro	
Bedrock		3. Surface seal:	$\begin{array}{c c} \mathbf{Bentonite} & \Box & 30 \\ \mathbf{Concrete} & \Box & 01 \end{array}$
13. Sieve analysis performed?	Yes 🖾 No		Other D
14. Drilling method used: Ro	tarv 🗆 50	4. Material between	well casing and protective pipe:
Hollow Stem At	- 600		Bentonite 🖾 30
	ther		Other 🗆 🧾
		5. Annular space se	
15. Drilling fiuid used: Water 🗆 0 2	Air 🗆 01	bLbs/gal 1	nud weight Bentonite-sand slurry D 35
Drilling Mud \Box 0 3	None 🛛 99	cLbs/gal ı	nud weight Bentonite slurry 🗖 31
16. Drilling additives used?	Yes 🛛 No		the \dots Bentonite-cement grout \Box 50
		8 eFt	³ volume added for any of the above
Describe		f. How installed	— · · · —
17. Source of water (attach analysis, if req	000	88	Tremie pumped \square 02
		6. Bentonite seal:	Gravity 🗵 08 a. Bentonite granules 🗖 33
	🎆	6004	$3/8$ in. $\Box 1/2$ in. Bentonite chips $\Box 32$
E. Bentonite seal, topft. MS	SL or $___^1_ft$.	c	$ Other \square$
F. Fine sand, top ft. MS	SL or $_$ $_$ $\stackrel{\otimes}{=}$ $_$ ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
G. Filter pack, top ft. MS	SL or 8 ft.	b. Volume adde	a
0. Fillel pack, top			ial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	SL or $_ _ 10 _ ft.$	a	
I. Well bottomft. MS	SL or $_{25}_{fl}$ ft.	b. Volume adde 9. Well casing:	Flush threaded PVC schedule 40 🖾 23
J. Filter pack, bottomft. MS	SL or25 ft.		Flush threaded PVC schedule 80 24 Other
		10. Screen material:	
K. Borehole, bottom ft. MS	$SL \text{ or } _ _ 25_ _ \text{ ft.}$	a. Screen type:	Factory cut 🖾 11
			Continuous slot 🔲 01
L. Borehole, diameter $\frac{8}{-}$ in.			Other 🗆 🔛
M. O.D. well casing in.		b. Manufacturer c. Slot size:	$0. \ 010$ in.
		d. Slotted length	_
N. I.D. well casing $2 \cdot 0$ in.		11. Backfill material	(below filter pack): None ☑ 1 4 Other □
I hereby certify that the information on this	s form is true and correct to the b	est of my knowledge.	
Signature	Firm KPRG ar	d Associates, Inc.	

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

	Watershed/Wastewater 🛄 Remediation/Redevelopment 🖂	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Local Grid Location of Wall		Well Name OO
FORMER NATURAL CLEANERS	t.	¶	Well Name GP-11
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (estimate Lat Loc		Wis. Unique Well No. DNR Well ID No.
Facility ID 341140250	St. Plane ft. N, _	ft. E. S/C/N	Date Well Installed $\underline{09} / \underline{25} / \underline{2013}$ $\underline{m} - \underline{d} - \underline{y} - \underline{y} - \underline{y}$
Type of Well Well Code /	SW 1/4 of SE 1/4 of Sec. 5	5_, T. <u>8</u> N. R. <u>22</u> 🖬 W	Well Installed By: Name (first, last) and Firm DAN BENDORF
Distance from Waste/ Enf. Stds.	Location of Well Relative to Wa	ste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply	d \square Downgradient n \square	2	PROBE TECHNOLOGIES
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	X Yes 🗆 No
B. Well casing, top elevation		2. Protective cover a. Inside diameter	· •
C. Land surface elevation	ft. MSL	b. Length:	<u>l</u> ft.
D. Surface seal, bottom ft. M	SLor I ft.	c. Material:	Steel 🔀 04
12. USCS classification of soil near scree	X = 275 37		
GP □ GM □ GC □ GW □ S		d. Additional pro	Direction?
	сі дісні Ц		Bentonite \Box 30
Bedrock		3. Surface scal:	Concrete X 01
13. Sieve analysis performed?	Yes 🛛 No	X	Other 🛛 🎆
	tary 🗆 50	4. Material between	well casing and protective pipe:
Hollow Stem A			Bentonite 🗖 30
<u>GEOPROBE</u>	Other 🛛 📖	×	Other 🗆 🎆
15. Drilling fluid used: Water 🗆 0 2	Air 🗆 01	5. Annular space se	al: a. Granular/Chipped Bentonite X 33 mud weight Bentonite-sand slurry 35
	None X 99	Ko bLos/gali	mud weight Bentonite-sand slurry 235 mud weight Bentonite slurry 231
		d% Bento	nite Bentonite-cement grout \Box 50
16. Drilling additives used?	Yes X No	eFt	³ volume added for any of the above
Describe		f. How installed	I: Tremie 🗆 01 Tremie pumped 🗆 02
17. Source of water (attach analysis, if req	uired):		Gravity 🖾 02
		6. Bentonite seal:	a. Bentonite granules [] 33
		b. □1/4 in. 🌶	[3/8 in. □1/2 in. Bentonite chips 🗹 32
E. Bentonite seal, topft. MS	sL or ft.	C	Other 🗆 🎆
F. Fine sand, top ft. MS	SL or $_$ $_$ 3.5 ft.	7. Fine sand moter	al: Manufacturer, product name & mesh size
G. Filter pack, top ft. M	SLor3.5 ft.	a b. Volume adde	dft ³
			rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. M.	SL or2 ft.	a PRE-P b. Volume adde	
I. Well bottomft. M.	SLor15ft	9. Well casing:	Flush threaded PVC schedule 40 💓 23
			Flush threaded PVC schedule 80 24
J. Filter pack, bottomft. MS	3L or 12 ft.	10. Screen material:	Other 🛛 🚛
K. Borehole, bottom ft. M	$sLor_{16}ft$	a. Screen type:	Factory cut X 11
			Continuous slot \Box 01
L. Borehole, diameter $\frac{2}{2}$ in.			Other 🗆 🎆
		b. Manufacturer c. Slot size:	0.010 in.
M. O.D. well casing in.		c. Slot size: d. Slotted lengt	
N. I.D. well casing 0.75 in.			I (below filter pack): None 🗹 1 4
I hereby certify that the information on thi	s form is true and correct to the b	est of my knowledge.	
Signature NO	Firm		
HULT	nrk	GANDASSOCIATES	S, Lal C

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	Watershed/Wastewater 🗔 Remediation/Redevelopment 🔀	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
	Local Grid Location of Well		Well Name CO 12
FORMER NATURAL CLEANERS	lR 05	S f $\Box W$.	Well Name GP-12
Facility License, Permit or Monitoring No.	Local Grid Origin 🛛 (estimate	ed: 🗆) or Well Location 🗆	Wis. Unique Well No. DNR Well ID No.
	Lat **Lo	ong • • • • • • • • • • • • • • • •	
Facility ID	St. Plane ft. N,	ft. E. S/C/N	Date Well Installed 09/25/2013
211140220	Section Location of Waste/Source	Ye	mm d d v v v v
Type of Well	\underline{SW} 1/4 of \underline{SE} 1/4 of Sec. 5	5.T. 8 N.R. 22	Well Installed By: Name (first, last) and Firm
Well Code <u>MW / 11</u>	Location of Well Relative to Wa	ste/Source Gov. Lot Number	- DAN BENDORF
Distance from Waste/ Enf. Stds.		Sidegradient	PROBE TECHNOLOGIES
Sourceft. Apply	d 🗆 Downgradient n 🗖		
A. Protective pipe, top elevation	ft. MSL	1. Cap and lock?	X Yes 🗆 No
B. Well casing, top elevation	ft. MSL	2. Protective cover	
D		a. Inside diamete b. Length:	
C. Land surface clevation	ft. MSL	c. Material:	Steel 2 0 4
D. Surface seal, bottom ft. MS	SL or ft.	C. Material.	Other 🛛 💹
12. USCS classification of soil near scree		d. Additional pr	
GP GM GC GW S)e:
			Bentonite 🛛 30
Bedrock		3. Surface scal:	Concrete 🗶 01
13. Sieve analysis performed?	Yes 🗖 No 🛛 👹		Other 🛛 💹
14. Drilling method used: Ro	tary 🗆 50	4. Material betwee	n well casing and protective pipe:
Hollow Stem At	uger 🗆 41		Bentonite 🖾 30
GEOPROBE O	other 🗹 🎆 🛛 🗱		Other 🗆 🔛
		5. Annular space s	cal: a. Granular/Chipped Bentonite X 33
15. Drilling fluid used: Water 🗆 0 2	Air 🗌 01	bLbs/gal	mud weight Bentonite-sand slurry 2 35
Drilling Mud 🖂 0 3	None 2 99	cLbs/gal	mud weight Bentonite slurry 🛛 31
16. Drilling additives used?	Yes 🗴 No	d% Bento	nite Bentonite-cement grout \Box 50
		603	³ volume added for any of the above
Describe		f. How installed	
17. Source of water (attach analysis, if req	uired):	88	Tremie pumped 🛛 02
		6. Bentonite seal:	Gravity 💆 08 a. Bentonite granules 🔲 33
	X	KOX	$(3/8 \text{ in.} \Box 1/2 \text{ in.} Bentonite chips) (3/2)$
E. Bentonite seal, topft. MS	SLor Uft.		Other 🗆 🔛
F. Fine sand, top ft. MS	$sLor_3.5ft$	7. Fine sand mater	ial: Manufacturer, product name & mesh size
		a	
G. Filter pack, top ft, MS	SLor 3.5 ft.	b. Volume adde	dft ³
		8. Filter pack mate	rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	SL or2 ft.	a	
		b. Volume add	zdft ^{_3}
I. Well bottom	SLor15 ft.	9. Well casing:	Flush threaded PVC schedule 40 🕱 23
			Flush threaded PVC schedule 80 📋 24
J. Filter pack, bottomft. MS	SL or 15 II.		Other 🗆 🌺
	15.4.	10. Screen material	
K. Borehole, bottom ft. MS	SL or LS2 II.	a. Screen type:	Factory cut 🕅 11 Continuous slot 🔲 01
L. Borehole, diameter $\frac{2}{2}$ in.		A	
L. Borehole, diameter $$ in.		h Manufacture	
M OD well assing		b. Manufacture c. Slot size:	0.010 in.
M. O.D. well casing in.		d. Slotted lengt	-
N. I.D. well casing 0.75 in.		• • •	I (below filter pack): None 🗹 14
THE THE HOLE CADING _ 2+1 - III			Other 🛛 🧱
I hereby certify that the information on this	s form is true and correct to the b	est of my knowledge.	
Signature M ()	Firm		<u> </u>
Lett.	KPR	GANDASSOCIATES	S, LNC

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

	Watershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Local Grid Location of Well		Well Name GP-13
FORMER NATURAL CLEANERS Facility License, Permit or Monitoring No.			
Facinty License, Pennit or Monitoring No.			-
Facility ID 341140250	St. Plane ft. N, Section Location of Waste/Source	ft. E. S/C/N	
Type of Well	<u>SW</u> 1/4 of <u>SE</u> 1/4 of Sec. 5	5 т 8 N P 22. АВ	, Well Installed By: Name (first, last) and Firm
Well Code <u>MW / 11</u>	Location of Well Relative to Wa	aste/Source Gov. Lot Number	DAN BENDORF
Distance from Waste/ Enf. Stds. Sourceft, Apply		Sidegradient	PROBE TECHNOLOGIES
A. Protective pipe, top elevation		1. Cap and lock?	X Yes 🗆 No
	ft. MSL	2. Protective cover	pipe:
		a. Inside diamet	er:
C. Land surface elevation	ft. MSL	b. Length: c. Material:	$ \underbrace{ \begin{array}{c} \underline{} \\ \phantom{a$
D. Surface seal, bottom ft. M:	SL or ft.	C. Matchar.	Other 🗆
12. USCS classification of soil near scree		d. Additional p	
GP GM GC GW G			be:
SM C SC ML MH C G Bedrock		3, Surface scal:	Bentonite 🔲 30
	Yes 🛛 No		Concrete 🗶 01
	tary 0 50	A Material hatma	Other
14. Drilling method used: Ro Hollow Stem A			Bentonite 🗹 30
GEOPROBE C	other X		Other 🗆 🎆
		5. Annular space s	
15. Drilling fluid used: Water [] 0 2	Air 🗆 01	bLbs/gal	mud weight Bentonite-sand slurry D 35
Drilling Mud 🗋 0 3	None 99		mud weight Bentonite slurry 🔲 31
16. Drilling additives used?	Yes X No		mite Bentonite-cement grout \Box 50
			t^3 volume added for any of the above d: Tremie $\Box = 0.1$
Describe		f_i How installe	$\frac{1}{1}$
17. Source of water (attach analysis, if req	uired):		Gravity 🗵 08
		6. Bentonite seal:	a. Bentomite granules 📋 33
		b. $\Box 1/4$ in.	A3/8 in. \Box 1/2 in. Bentonite chips \boxtimes 32
E. Bentonite seal, topft. MS	si or 11.	C	Other 🗆 🎆
F. Fine sand, top ft. MS	SL or <u>3.5</u> ft.	7. Fine sand mate	rial: Manufacturer, product name & mesh size
	SL or3.5 ft.	a	
G. Filter pack, top ft, M			cdft ³ erial: Manufacturer, product name & mesh size
H. Screen joint, top ft. M	SL or5 ft.	- [] _ a	
t Wall horrow ft M	SLor15ft、	b. Volume add 9. Well casing:	Flush threaded PVC schedule 40 🕱 23
I. Well bottom ft. M.		S. Wen cashig.	Flush threaded PVC schedule $80 \square 24$
J. Filter pack, bottomft. M	SL or15 ft.		Other 🛛 🎆
K. Borchole, bottom	st ar 15th	10. Screen materia	
	5L 0r 2	a. Screen type	E Factory cut X 11 Continuous slot 01
L. Borehole, diameter $\frac{2}{2}$ in.			Other 🗆 💥
		b. Manufacture	at
M. O.D. well casing in.		c. Slot size:	0.010 in.
N. I.D. well casing -0.75 in.		•	th: -10 ft. al (below filter pack): None 2 14
N. I.D. well casing $- \bigcirc . 1 \supseteq $ in.		TT, DROKTHI HIGICH	$\frac{1}{1}$
I hereby certify that the information on thi	s form is true and correct to the b	est of my knowledge.	
Signature D	Firm KPD	C	
		GANDASSOCIATE	S, Jul C

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

	Watershed/Wastewater	Waste Manag		MONITORING WELL Form 4400-113A	CONSTRUCTION Rev. 7-98
Facility/Project Name	I coal Grid Location of Wall			Well Name CO	
FORMER NATURAL CLEANERS		N.		Well Name GP-16	Ś
Facility License, Permit or Monitoring No.			Well Location	Wis. Unique Well No.	DNR Well ID No.
·······	Lat,"L	ong	t li Or		
Facility ID		-	ft. E. S/C/N	Date Well Installed	
341140250	Section Location of Waste/Sour		IL E. 3/C/N		$\frac{5}{2013}$
Type of Well	Section Location of WasterSour	~ _ O		Well Installed By: Name	(first, last) and Firm
Well Code <u>MW/11</u>	<u>SW 1/4 of SE</u> 1/4 of Sec. 5	<u>, T. 8</u>	N, R. <u>62</u> W	DAN BENDORF	
Distance from Waste/ Enf. Stds.	Location of Well Relative to Wa	aste/Source Sidegradient	Gov. Lot Number		
Sourceft. Apply	$d \square$ Downgradient $n \square$	- 1		PROBE TECHN	LOLOGIES
			Cap and lock?		Yes I No
	ft. MSL		Protective cover p	nine:	Д
B. Well casing, top elevation	ft. MSL		a. Inside diameter	•	in.
	6) (CI	IF	b. Length:	•	<u>1</u> a.
C. Land surface elevation	ft.MSL		c. Material:		Steel X 04
D. Surface seal, bottom ft. M	SLor ft.		C, Machian		Other 🛛 💹
12. USCS classification of soil near scree		1.100	d. Additional pro	tection?	
GP GM GC GW G				e:	
			ii yes, describ		Bentonite 🔲 30
Bedrock		🗱 🔪 3.	Surface scal:		
13. Sieve analysis performed?	Yes 🛛 No				Concrete 01
	1 100	× `.			Other 🛛 🧾
	tary 🗆 50	4.	. Maicrial Detween	well casing and protective	/
Hollow Stem A					Bentonite 🛛 30
<u>GEOPROBE</u>	other X		•		Other 🛛 🎆
16 Delline finid me de Water 🗖 0.2	Air 🗆 01	5.	. Annular space se	al; a. Granular/Chipped	
15. Drilling fluid used: Water □ 0 2 Drilling Mud □ 0 3				nud weight Bentonite-s	
	None X 99	6 C	Lbs/gal n	nud weight Bentor	nite slurry 🛛 31
16. Drilling additives used?	Yes XI No	ć		ite Bentonite-cer	
		888 e		³ volume added for any of	
Describe		1 f	How installed	:	Tremie 🔲 01
17. Source of water (attach analysis, if req				Tremi	e pumped 🔲 02
The boulde of the carbon and you, it is				T	Gravity 🛛 08
	💥	6	. Bentonite seal:		e granules 🔲 33
			b. ⊔1/4 m. µ	3/8 in. 🗆 1/2 in. Benta	
E. Bentonite seal, topft. M	$SL or _ _ _ _ _ _ _ III.$		c		Other 🛛 🎬
			. Fine sand materia	al: Manufacturer, product	name & mesh size
F. Fine sand, topft. M.	SL or $_3.5$ ft.	國/ /			
			a	d fi ³	
G. Filter pack, topft. M	$sL or _ 3.5 ft.$				
		8	. Filter pack mater	ial: Manufacturer, produc	
H. Screen joint, top ft. M	SL or 2 IL		a		
			b. Volume adde		
I. Well bottomfL MS	SL or 15 ft.	2 9 2 9	. Well casing:	Flush threaded PVC sch	
				Flush threaded PVC sch	
J. Filter pack, bottom ft. M	SL or 15 It.				Other 🛛 🏬
		10). Screen material:		
K. Borehole, bottom	SLorLett.	S	a. Screen type:		actory cut 🕅 11
0		2		Contin	wous slot 🗖 01
L Borehole, diameter2 in.			•		Other 🛛 🎆
			b. Manufacturer		
M. O.D. well casing $_$ $_$ $_$ $_$ in.			c. Slot size:		0.010 in.
		\ \	d. Slotted length		<u>lo</u> n.
N. I.D. well casing -0.75 in.		11	. Backfill material	(below filter pack):	None 🗹 14
					Other 🛛 🔬
I hereby certify that the information on thi	s form is true and correct to the b	est of my know	wledge.		
Signature DA	Firm KPD				
	I NEK	G ANDA	TSSOCIATES	5, LNC	

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

	Watershed/Wastewater 🗌 Remediation/Redevelopment 🖂	Waste Management []	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name	Local Grid Location of Well		Well Name OO 17
FORMER NATURAL CLEANERS	I	SI $\Box W$.	Well Name GP-17
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (estimat	ed:) or Well Location	Wis. Unique Well No. DNR Well ID No.
P. 11. TV.		ong or	Data Wall Installed
Facility ID 341140250	St. Plane fl. N,	ft. E. S/C/N	Date Well Installed 09/25/2013
Type of Well	Section Location of Waste/Sour		m m d d v v v v Well Installed By: Name (first, last) and Firm
Well Code MW/ 11	SW 1/4 of SE 1/4 of Sec. 5	<u>, T. 8 N. R. 22 0 W</u>	DAN BENDORF
Distance from Waste/ Enf. Stds.	-Indeanded of when including to wa	ste/Source Gov. Lot Number Sidegradient	
Sourceft, Apply	$d \square$ Downgradient $n \square$		PROBE TECHNOLOGIES
	ft.MSL	1. Cap and lock?	Yes 🛛 No
B. Well casing, top elevation	ft. MSL	2. Protective cover a. Inside diamete	
	ft. MSL	b. Length:	î. î.
		c. Material:	Steel 🗖 04
D. Surface seal, bottom ft. MS	SL or ft.		Other 🗍 🎆
12. USCS classification of soil near screet	n: 💦 🖓	d. Additional pro	nection? 🗌 Yes 🗌 No
GP GM GC GW G S		If yes, describ	e:
SM SC SC ML MH C Bedrock	стуасны т	3. Surface scal:	Bentonite 🔲 30
	V 10 V		Concrete X 01
	Yes X No		Other 🛛 💹
	otary □ 50	4. Material between	a well casing and protective pipe:
Hollow Stem Au	uger LI 4 1 Diher XI		Bentonite 🛛 30
<u>GEOPLOBE</u> O			al; a. Granular/Chipped Bentonite X 3 3
15. Drilling fluid used: Water 🗆 0 2	Air 🗆 01	5. Annular space se	mud weightBentonite-sand slurry 35
	None 🕅 99		mud weight \ldots Bentonite slurry \square 31
		k d % Bentor	nite \dots Bentonite-cement grout $\square = 50$
16. Drilling additives used?	Yes XI No	c Ft	³ volume added for any of the above
		f. How installed	— · — ·
Describe			Tremie pumped 🔲 02
17. Source of water (attach analysis, if req		88	Gravity 🗖 08
		6. Bentonite seal:	a. Bentonite granules 🔲 33
		b. $\Box 1/4$ in. J^2	$(3/8 \text{ in.} \Box 1/2 \text{ in.} Bentonite chips) \boxtimes 32$
E. Bentonite seal, topft. MS	st or	C	Other 🛛 🎆
F. Fine sand, top	SL or3.5 ft.	7. Fine sand materi	al: Manufacturer, product name & mesh size
-		a	
G. Filter pack, top ft. MS	$SL or _3.5 ft$		dft ³
		8. Filter pack mate	rial: Manufacturer, product name & mesh size
H. Screen joint, top ft. MS	SL or 7 II.	a	
· · · · · · · · · · · · · · · · · · ·	SLor15 ft.	6. Volume adde	
I. Well bottom ft. MS		9. Well casing:	Flush threaded PVC schedule 40 🛛 23 Flush threaded PVC schedule 80 🔲 24
J. Filter pack, bottomft. MS	stor 15 ft		Other
J. Filter pack, boltom re wa		10. Screen material:	6-14-0-0-
K. Borchole, bottom	$SL or _ 15 ft.$	a. Screen type:	Factory cut X 11
			Continuous slot 🔲 01
L. Borehole, diameter 2 in.		·····	Other 🛛 🎆
		b. Manufacturer	
M. O.D. well casing in.		c. Slot size:	0. <u>010</u> in.
A-1		d. Slotted lengt	
N. I.D. well casing $-\underline{0.75}$ in.		11. Backfill materia	I (below filter pack): None ☑ 14 Other □
I hereby certify that the information on this	s form is true and correct to the k	est of my knowledge	Other 🛛 🎆
$\frac{1}{\text{Signature } N(-1)}$	Eirm		
felts-	KPR	GAND ASSOCIATES	5, LN C

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MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater	Waste Management
Remediation/Redevelopment 🗵] Other
Facility/Project Name County Name former Natural Cleaners County Name	e Well Name MW-5
Facility License, Permit or Monitoring Number County Code	Wis. Unique Well Number DNR Well ID Number
1. Can this well be purged dry? I Yes I No	11. Depth to Water
2. Well development method □ 4 1 surged with bailer and bailed □ 6 1 surged with bailer and pumped □ 6 1 surged with block and bailed □ 4 2 surged with block and pumped □ 6 2 surged with block, bailed and pumped □ 7 0 compressed air □ 2 0 bailed only □ 1 0 pumped only □ 5 1 pumped slowly □ 5 0	(from top of well casing) a. $_ 10.2$ $_$ ft. $_ 25.2$ $_$ ft. b. $_ 05$ $/ \frac{11}{d} = / \frac{2017}{y \ y \ y \ y}$ $_ 05$ $/ \frac{11}{d} = / \frac{2017}{y \ y \ y \ y}$ Date b. $_ 0.5$ $/ \frac{11}{d} = / \frac{2017}{y \ y \ y \ y}$ $_ 05$ $_ / \frac{11}{d} = / \frac{2017}{y \ y \ y \ y}$ Time c. $_ 13 = : 45$ $_ 19 \text{ m.}$ $_ 14 = : 45$ $_ 19 \text{ m.}$ 12. Sediment in well $_ 0 . _$ inches $_ 0 . _$ inches
Other	13. Water clarityClear \square 10Clear \boxtimes 20Turbid \square 15Turbid \square 25(Describe)(Describe)(Describe)
4. Depth of well (from top of well casisng) 25.2 ft.	
5. Inside diameter of well in.	
 6. Volume of water in filter pack and well casing gal. 	Fill in if drilling fluids were used and well is at solid waste facility:
 7. Volume of water removed from well50 gal. 8. Volume of water added (if any)0 gal. 	14. Total suspended mg/l mg/l mg/l solids
9. Source of water added	15. CODmg/lmg/l
10. Analysis performed on water added? □ Yes ☑ No (If yes, attach results) □ □ 17. Additional comments on development: □	16. Well developed by: Name (first, last) and Firm First Name: Patrick Last Name: Allenstein Firm: KPRG and Associates, Inc.

17. Additional comments on development:

Name and Addr First Name:	ress of Facility Contact /Owner/Responsible Party Last Name:	I hereby certify that the above information is true and correct to the of my knowledge.		
Facility/Firm: .	former Natural Cleaners	Signature: _		
Street:	8828 Port Washington Road	Print Name:_	Patrick Allenstein	
City/State/Zip:	Bayside, WI	Firm: _	KPRG and Associates, Inc.	

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

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1 of 2

Route to:	water Waste Management	X Remediation	Redevelop	ment Othe		
1. General Information	, in the second s	2. Facility / O	•			
WI Unique Well No. DNR Well ID No.	and the second	Facility Name		- CLEANERS	5	
Common Well Name GP-1	Gov't Lot # (if applicable)	Facility ID		se/Permit/Monito		, Village or Town
1/4 1/4 Section SW SE 5	Township Range K E 8 N 22 W		PORT WI	SHINGTON E		
Grid Location Feet N S W Latitude: DEG	Local Grid Origin (estimated) OR Well Location Longitude: DEG MIN SEC	Present Well Ow Street Address			State	ZIP Code
Reason For Abandonment WI U	nique Well No. of Replacement We		r Screen	Casing & Sea		
3. Well / Drillhole / Borehole Informa Original Wonitoring Well Water Well	tion Construction Date ນ(ສາເຊັຽ	Pump and pip Liner(s) remov Screen remov Casing left in	ing remove ved? red?			Yes No XN/A Yes No XN/A Yes No XN/A Yes No XN/A
Borehole / Drillhole If a Well please at Construction Type: Drilled Driven (Sandpoin Sother (specify): GEORLOGE		Was casing cu Did sealing m Did material s If yes, was	ut off below aterial rise t ettle after 2 s hole retop	to surface? 4 hours? ped?	×	Yes No N/A Yes No N/A Yes No N/A Yes No N/A Yes No N/A
Formation Type:	Bedrock	hydrated with Required Metho	water from	sed, were they a known safe so g Sealing Materia y		·
Total 🕬 Depth From Groundsurface (ft.) 3	NA	Screened 8 (Bentonite of Sealing Material	Chips)	Other (Ex	plain):	
Lower Drillhole Diameter (in.) 2. Was well annular space grouted? [Casing Depth (ft.)	Concrete	ent (Concre	te) Grout	Bentonite- Bentonite	• .
If yes, to what depth (feet)? Dep	oth to Water (feet) NE	Bentonite Cl	ntonite	Bento	nite - Cemer nite - Sand S	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	o (ft.)	No. Yards, Sack or Volume (cir	and the second or should be	Mix Ratio or Mud Weight
CHIPPED BEN	TONITE	Surface	3			
6. Comments						

7. Supervision of Work					DNR Use Only
Name of Person or Firm Doing Sealing Wor	k	Date	e of Abandonment	Date Received	Noted By
PROBE TECHNOLOGIES			11/16/06		
Street or Route		Tele	phone Number	Comments	a second and a second
)	e e de Constante de Maria.	
City	State	ZIP Code	Signature of	Person Doing Work	Date Signed

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1 of 2

Route to:				· .		
Drinking Water Watershed/Waste	water 🔄 Waste Management	X Remedia	ation/Redev	elopment	Other:	
1. General Information		2. Facility	/ Owner I	nformation		
WI Unique Well No. DNR Well ID No.		Facility Name		LAL CLEAN	1000	
	MILWAUKEE					
Common Well Name GP-2	Gov't Lot # (if applicable)	Facility ID		icense/Permit/		y, Village or Town
%/% % Section Sw SE 5	Township Range K E 8 N 22 W	Street Addres		WASHINGT	in ROAD	
Grid Location		Present Well	Owner		Original Well Ow	ner
Feet	Local Grid Origin	Street Addres	es or Rout	e of Owner	L	
	(estimated) OR Well Location		55 01 1001	e of Owner		
Latitude: DEG MIN SEC	Longitude: DEG MIN SEC	City			State	ZIP Code
Reason For Abandonment WI U	nique Well No. of Replacement We	4. Pump. L	iner. Scre	en. Casino a	& Sealing Mate	/ rial
		1	l piping ren		3	
3. Well / Drillhole / Borehole Informa	and the second secon	Liner(s) re		loved		
	Construction Date ۱۱ (ه ۱۵ / ۵۵	Screen rei				
Water Well			t in place?			Yes No N/A
Borehole / Drillhole	Construction Report is available, ach.			elow surface?		Yes No N/A
Construction Type:		1	Ũ	rise to surface?	, ×	
Drilled Driven (Sandpoint) Dug		-	ter 24 hours?		
✓ Other (specify):GEoPRoBE			was hole r			
	······			re used, were t		
Formation Type:				rom a known s		Yes No N/A
Junconsolidated Formation	Bedrock	Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped				
Total 🕬 Depth From Groundsurface (ft.)	Casing Diameter (in.)		ed & Poure hite Chips)		er (Explain):	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Mate	erials	-	[]	
2	NA	Neat Co	ement Grou	ıt		d Slurry (11 lb./gal. wt.)
		Sand-C	Cement (Co	ncrete) Grout		-Sand Slurry " ".
Was well annular space grouted?	Yes No Unknown	Concre			Bentonite	·
If yes, to what depth (feet)? Dep	th to Water (feet)	Bentonit	-	r	<i>Nell Boreholes O</i> Bentonite - Ceme	•
	NE		r Bentonite		Bentonite - Sand	10 March 10
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards,	Sacks Sealant	Mix Ratio or
CHIPPED BEN	R.1176	Surface	3		ne (circle one)	Mud Weight
CHIPPED BEN		Guildee	<u> </u>			
	· · · · · · · · · · · · · · · · · · ·					
6. Comments		<u> </u>	L	_		I

7. Supervision of Work					DNR Use Only
Name of Person or Firm Doing Sealing Work		Date of	of Abandonment	Date Received	Noted By
PROBE TECHNOLOGIES			11/16/06		
Street or Route		Telepl (hone Number)	Comments	 Let use the state of the state
City	State	ZIP Code		Person Doing Work	Date Signed

Well / Drillhol	e / Borehole	Abanc	lonment
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Form 3300-005 (R 10/03)

Page 1 of 2

Route to:		picture				
Drinking Water Watershed/W	astewater Waste Management	X Remediation/Red	evelopment Ot	her:		
1. General Information		2. Facility / Owner	Information			
WI Unique Well No. DNR Well ID		Facility Name	JEAL CLEANER	6		
	MILWAUKEE					
Common Well Name GP-3	Gov't Lot # (if applicable)	Facility ID	License/Permit/Mon		TSIDE	
1/1/4 1/4 Section SW∕ SE 5	Township Range K E 8 N 22 W	Street Address of We 8828 N. Pol	T WASHINGTON		·	
Grid Location		Present Well Owner	Orig	ginal Well Owner	r · ·	
Feet NFeet E	Local Grid Origin					
🗌 s 🔤 w	(estimated) OR Well Location	Street Address or Ro	ute of Owner			
Latitude: DEG MIN SEC	Longitude: DEG MIN SEC	City		State ZI	P Code	
	N W	r -				
Reason For Abandonment	VI Unique Well No. of Replacement We	4. Pump Liner Sc	reen. Casino & Se	aling Materia		
				1 1		
3. Well / Drillhole / Borehole Info	kenne Aven, et el 19	Pump and piping r	emovea?	∐ Ye □ va		
Monitoring Well	nal Construction Date	Liner(s) removed?		L Ye		
Water Well	11/\$16/06	Screen removed?				
Ifa)	Nell Construction Report is available, se attach.	Casing left in place	{ 		<u></u>	
Pro-		Was casing cut off		L_] Ye		
Construction Type:		Did sealing materia	I rise to surface?	Ye		
Drilled Driven (Sand	point)	Did material settle after 24 hours? ☐ Yes ¥ No ☐ N/A				
X Other (specify):		If yes, was hold	e retopped? vere used, were they	L Ye	es LINo LIN/A	
Formation Type:			r from a known safe :		es 🗌 No 🗌 N/A	
		Required Method of I	Placing Sealing Mater			
Unconsolidated Formation	Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped				
Total Well Depth From Groundsurface		Screened & Pou (Bentonite Chips		Explain):		
	A/A	Sealing Materials				
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Neat Cement Gr	out	Clay-Sand S	ilurry (11 lb./gal. wt.)	
		Sand-Cement (0	Concrete) Grout	Bentonite-Sa	and Slurry " "	
Was well annular space grouted?	Yes No Unknown	Concrete		Bentonite Ch	nips	
was well annular space grouted?			and Monitoring Well	Boreholes Only.	;	
If yes, to what depth (feet)?	Depth to Water (feet)	Bentonite Chips	Ben	tonite - Cement (Grout	
	NE	Granular Bentoni	te Beni	tonite - Sand Slu	irry	
5. Material Used To Fill Well / Drillh	, Dle	From (ft.) To (ft) No. Yards, Sac or Volume (c		Mix Ratio or Mud Weight	
CHIPPED B	ENTONITE	Surface 15	• •			
6. Comments						

7. Supervision of Work					DNR Use Only
Name of Person or Firm Doing Sealing Wo	ork	Dat	e of Abandonment	Date Received	Noted By
PROBE TECHNOLOGIES			11/16/06		
Street or Route		Tele	ephone Number	Comments	
		C)	an a	
City	State	ZIP Code	Signature	erson Doing Work	Date Signed

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Page 1 of 2

Route to:	astewater 🔲 Waste Management	X Remediation/Redev	relopment Oth	er:	
1. General Information		2. Facility / Owner I	nformation		
WI Unique Well No. DNR Well ID	No. County MILWAUKEE	Facility Name	LAL CLEANERS	3 3	<u></u>
Common Well Name GP-4	Gov't Lot # (if applicable)	Facility ID	icense/Permit/Monit	oring NdCity, Village or T BATSIDE	ōwn
SW SE 5	Township Range × E 8 N ZZ W		WASHINGTON		
Grid Location Feet	Local Grid Origin (estimated) OR Well Location Longitude: DEG MIN SEC	Present Well Owner Street Address or Rout City		State ZIP Code	
Reason For Abandonment V SoiL Boking	N W VI Unique Well No. of Replacement We	4. Pump, Liner, Scre	een, Casing & Sea	ling Material	
3. Well / Drillhole / Borehole Info		Pump and piping rem Liner(s) removed? Screen removed?		Yes No	× N/A × N/A
	Vell Construction Report is available, se attach.	Casing left in place? Was casing cut off be	elow surface?		N/A
Construction Type:	point) Dug	Did sealing material r Did material settle aft If yes, was hole r If bentonite chips wer	rise to surface? ter 24 hours? etopped?	×Yes No Yes ×No Yes No	
Formation Type:	Bedrock	hydrated with water f Required Method of Pla	rom a known safe so acing Sealing Materia		<u> </u>
Total XCI Depth From Groundsurface	(ft.) Casing Diameter (in.) いム	Screened & Poure (Bentonite Chips)	d Other (Ex	plain):	
Lower Drillhole Diameter (in.)	Casing Depth (ft.)	Sealing Materials	["	Clay-Sand Slurry (11 lb Bentonite-Sand Slurry	• ·
Was well annular space grouted?	Yes No Unknown	Concrete		Bentonite Chips oreholes Only:	
If yes, to what depth (feet)?	Depth to Water (feet) NE	Bentonite Chips Granular Bentonite		nite - Cement Grout nite - Sand Slurry	
5. Material Used To Fill Well / Drillho		From (ft.) To (ft.)	No. Yards, Sack or Volume (cir		
CHIPPED B	ENTONITE	Surface 15			
6. Comments					

7. Supervision of Work						DNR Use C	Dnly
Name of Person or Firm Doing Sealing Work			Date of Abando	onment	Date Received	Noted By	
PROBE TECHNOLOGIES			11/16/0	20			
Street or Route			Telephone Nun	nber	Comments		
			()		and the second second	d a principal de la de	
City	State	ZIP Coo	le Sig	gnarow of Berso	n Doing Work		Date Signed
			i	une 14			

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:		•								
Drinking Water Watershed/Was	iewater Wast	e Manager	nent	X Remediation	/Redevelopn	nent U Other	·			
1. General Information			ļ	2. Facility / O	wner Infori	mation				
WI Unique Well No. DNR Well ID No.	D. County MILW	LUKEE	-	Facility Name	L CLEAT	JERS				
Common Well-Name GP-5	Gov't Lot # (if ap	oplicable)		Facility ID	Licens	se/Permit/Monitor		, Village or Town		
%/% % Section SW SE 5	Township F	tange 22	X E W	Street Address	J. PORT V	NASHINGTON	led.			
Grid Location	Local Grid Origin	3		Present Well Ov			al Well Owi	ner		
	(estimated) OR	Well L	ocation	Street Address	or Route of	Owner				
Latitude: DEG MIN SEC	J	MIN SEC	W	City		<u></u>	State	ZIP Code		
Reason For Abandonment WI	Unique Well No. c	of Replacen	nent We	4. Pump, Lin	er, Screen,	Casing & Sea	ling Mater	rial		
Soil Boring-					iping remove			Yes No X N/A		
3. Well / Drillhole / Borehole Inform	nation al Construction Da	to		Liner(s) rem	• •			Yes No X N/A		
Monitoring Well	12/20/07	25		Screen removed?						
Water Well				Casing left i	Casing left in place?					
	ell Construction Report attach.	l is available,		Was casing	cut off below	v surface?		Yes No XN/A		
Construction Type:		·		Did sealing material rise to surface?						
Drilled Driven (Sandp	oint)	Dug		Did material settle after 24 hours?						
Cther (specify):	,			If yes, was hole retopped?						
				If bentonite	chips were t	used, were they n a known safe s	ource? 🔀			
Formation Type:						ng Sealing Materi				
Unconsolidated Formation	Bedrock				or Pipe-Gravi	1 1	r Pipe-Pum	nped		
Total ₩## Depth From Groundsurface	(ft.) Casing Diam		AL	Screene (Bentoni	d & Poured te Chips)	Other (E)	xplain):			
I ower Drillhole Diameter (in)	Casing Dept	h (ft.)		-Sealing Mate		Г	Clav-Sa	ind Slurry (11 lb./gal. wl.)		
2		1	AN AN		ment Grout		=, ·	te-Sand Slurry " "		
		1			ement (Conci	rete) Grout	_	ite Chips		
Was well annular space grouted?	∐Yes ∐	No Lu	Inknow	n Concret		Monitoring Well	— Boreholes ·	Only:		
If yes, to what depth (feet)?	Depth to Water (fe	eet)		Bentonit			onite - Cen			
				1	Bentonite	Ben	lonite - San	d Slutty		
5. Material Used To Fill Well / Drillh	ołe			From (ft.)	To (ft.)	No. Yards, Sac or Volume (c				
	ASPHALT			Surface	<i>ф</i> .5					
	CHIPPED BE	TILGTL	5	<i>\$.5</i>	15					
6. Comments										

7. Supervision of Work	DNR Use Only					
Name of Person or Firm Doing Sealing Work ON-SITE ENVIRONMENTAL			1	bandonment	Date Received	Noted By
Street or Route			Telephor	ne Number	Comments	
City	State	ZIP Cot	ie	Signature of Pe	erson Doing Work	Date Signed
· · · · · · · · · · · · · · · · · · ·						

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Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:								
Drinking Water Watershed/Wastew	vater 🗌 Wast	e Management	X Remediatio	n/Redevelop	ment Othe	er:		
1. General Information			2. Facility / C	Owner Infor	mation			
WI Unique Well No. DNR Well ID No.	County MILW	AUKEE	Facility Name	AL CLEA	NERS			
Common WETT-Name GP-G	Gov't Lot # (if ap	oplicable)	Facility ID	Licen	se/Permit/Monito	1	y, Village or Town BATSIDE	
X/X X Section SW SE 5	Township R	ZZ W	Street Address 8828	N. PORT	WASHINGTON	J ED.		
	Local Grid Origin		Present Well O Street Address			nal Well Ov	vner	
	(estimated) OR		Olicel Addiess		Omici			
DEG MIN SEC	DEG	MIN SEC	City			State	ZIP Code	
Reason For Abandonment WI Ur SoiL Boll AG	nique Well No. c	of Replacement We	4. Pump, Lir	ner, Screen	, Casing & Sea	aling Mate	erial	
3. Well / Drillhole / Borehole Informat			Pump and p	Diping remove	ed?		Yes No XN/A	
	Construction Dat	e	Liner(s) rem				Yes No XN/A	
Monitoring Well	2/20/07		Screen removed?					
Water Well			Casing left	Casing left in place?				
X Borehole / Drillhole please att	Construction Report ach.	is avaliable,		cut off below	w surface?		Yes No XN/A	
Construction Type:			Did sealing material rise to surface?					
Drilled Driven (Sandpoint	n Tr	ງບຽ	Did material settle after 24 hours?					
Souther (specify):			If yes, was hole retopped?					
			If bentonite chips were used, were they					
Formation Type:							Yes LINO LIN/A	
Unconsolidated Formation	Bedrock		, <u>, , , , , , , , , , , , , , , , , , </u>	tnoo or Placii tor Pipe-Grav	ng Sealing Mater	rar or Pipe-Pur	nped	
Total Wat Dopth From Crown download (#)	In a star			ed & Poured	5	xplain):		
Total Well Depth From Groundsurface (it.)	Casing Diam			ite Chips)				
Lower Drillhole Diameter (in.)	Casing Depth		-Sealing Mate		ſ		and Slurry (11 lb./gal. wl.	
2		NA		ement Grout	l	= .	ile-Sand Slurry " "	
			Sand-C	ement (Conc	rete) Grout			
Was well annular space grouted?	Yes	No 🗌 Unknowi					ille Chips	
				-	Monitoring Well			
If yes, to what depth (feet)? De	pth to Water (fe	el)	X Bentonii	•		tonite - Cer		
			Granula	r Bentonite		lonile - Sar		
5. Material Used To Fill Well / Drillhole			From (fL)	To (ft.)	No. Yards, Sar •or Volume (c			
	45	PHALT	Surface	<i>φ.5</i>				
c.	HIPPED BE	······	<i>\$.5</i>	15				
							1	
6. Comments			·····		,			

7. Supervision of Work						DNR Use Only		
Name of Person or Firm Doing Sealing Work ON-SITE ENVIRAMENTAL		Da	ate of Abar	1	Date Received	Noted By	/	
Street or Route		Τ.	elephone N		Comments	- <u></u>		
City	State	ZIP Code	······································	Signature of I	Person Doing Work	· · · · · · · · · · · · · · · · · · ·	Date Signed	
			· .	+				

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Koute to:	
Drinking Water Watershed/Wastewater Waste Management	X Remediation/Redevelopment Other:
1. General Information	2. Facility / Owner Information
WI Unique Well No. DNR Well ID No. County MILWAUKEE	Facility Name NATURAL CLEANERS
Common Weth Name CP-7 Gov't Lot # (if applicable)	Facility ID License/Permit/Monitoring NdCity, Village or Town
X/X Section Township Range Take	Church Address of Witer
$\frac{1}{1}$ Sw SE Section Township Range SE SW SE $\frac{1}{5}$ $\frac{1}{8}$ N $\frac{1}{22}$ W	8828 N. PORT WASHINGTON RD.
Grid Location	Present Well Owner Original Well Owner
Feet NFeet E Local Grid Origin	Street Address or Route of Owner
S W (estimated) OR Well Location	
Latitude: DEG MIN SEC Longitude: DEG MIN SEC	City State ZIP Code
	4. Pump, Liner, Screen, Casing & Sealing Material
SOIL BORING	
3. Well / Drillhole / Borehole Information	
Original Construction Date	Liner(s) removed?
Monitoring Well 12/20/07	Screen removed?
Water Well If a Well Construction Report is available,	Casing left in place?
Borehole / Drillhole please attach.	Was casing cut off below surface?
Construction Type:	Did sealing material rise to surface?
Drilled Driven (Sandpoint) Dug	Did material settle after 24 hours?
Cher (specify): <u>CEOPLOBE</u>	If yes, was hole retopped?
	If bentonite chips were used, were they
Formation Type:	hydrated with water from a known safe source? Yes No
Unconsolidated Formation Bedrock	Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped
Total Weth Depth From Groundsurface (ft.) Casing Diameter (in.)	Screened & PouredOther (Explain): (Bentonite Chips)
	Sealing Materials
Lower Drillhole Diameter (in.) Z Casing Depth (ft.)	Neat Cement Grout Clay-Sand Slurry (11 lb./gal
Was well annular space grouted? Yes No Unknow	Concrete Bentonite Chips
	For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)? Depth to Water (feet)	Bentonite Chips Bentonite - Cement Grout
	Granular Bentonile Bentonite - Sand Slurry
5. Material Used To Fill Well / Drillhole	From (ft.) To (ft.) No. Yards, Sacks Sealant Mix Ratio o or Volume (circle one) Mud Weight
CONCRETE	Surface $\phi.5$
CHIPPED BENTONITE	<i>\$</i> .5 4
6. Comments	

7. Supervision of Work					
	Date of Ab	andonment	Date Received	Noted By	
	12/2	-0/07			
	Telephone	Number	Comments		
State	ZIP Code	Signature of P	erson Doing Work	Date Signed	
	State	Telephone	4 4 7 .	IZ/ZO/07 Telephone Number Comments () State ZIP Code Signature of Person Doing Work	

Well / Drillhole / Borehole Abandonment

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Route to:						
Drinking Water Watershed/Wastewa	ater Waste Management	X Remedialic	n/Redevelop	ment Other	r:	
1. General Information	2	. Facility / C	Owner Info	mation		
WI Unique Well No. DNR Well ID No. C	ounty F	acility Name		1		
	MILWAUKEE	NATURA	L CLEA			
Common Well-Name GP-8	iov't Lot # (if applicable) F	acility ID	Licen	se/Permit/Monitor		Village or Town
SW SE 5	8 N 22 W		N. PORT	WASHINGTON		
Grid Location	ſ	Present Well O	wner	Origin	al Well Own	er
Feet NFeet E	ocal Grid Origin					
	estimated) OR 🗌 Well Location	Street Address	or Route of	Owner		
Latitude: DEG MIN SEC	ngitude: DEG MIN SEC	City			State	ZIP Code
Reason For Abandonment WI Uni	que Well No. of Replacement We	(Dame 1 is			ling Motori	
SOIL BORING	· ·	4. Pump, Li	ier, Screen	, casing & Sea	1 1	
3. Well / Drillhole / Borehole Informati	ດດ	Pump and p	piping remov	ed?	Ľ	
Original Co	onstruction Date	Liner(s) rem	noved?		Ľ	
Monitoring Well	2/20/07	Screen rem	ioved?		Ľ	Yes No KN/A
Waler Well	onstruction Report is available,	Casing left	in place?			Yes No X N/A
Borehole / Drillhole please atta		Was casion	cut off below	w surface?		Yes No XN/A
Construction Type:			material rise			
Drilled Driven (Sandpoint)	Dug	1 5				
Cother (specify):		1	al settle after was hole reto			
LAI Other (specify):		If bentonite	chips were	used, were they		
Formation Type:		hydrated w	ith water from	n a known safe so	ource? 🔀	
Vinconsolidated Formation	Bedrock			ng Sealing Materia		
			tor Pipe-Grav		or Pipe-Pump	bed
Total ## Depth From Groundsurface (ft.)	Casing Diameter (in.)	}	ite Chips)	Other (E>	kplain):	
Lower Drillhole Diameter (in)	Casing Depth (ft.)	-Sealing Mate		ſ	Clav-San	d Slurry (11 lb./gal. wl
2	NA		ement Grout			-Sand Slurry " "
			emeni (Conc	rele) Groul L	Bentonite	-
Was well annular space grouted?	Yes No Unknown			L.		•
				Monitoring Well E		
If yes, to what depth (feet)? Dep	oth to Water (feet)	X Bentonit		E	onile - Ceme	
		Granula	r Benlonile	Bent	onile - Sand	Slurry
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)	No. Yards, Sac •or Volume {c		Mix Ratio or Mud Weight
	CONCRETE	Surface	<i>ф.5</i>			
C+	HIPPED BENTONITE	Ø.5	3.5			
				}		
6. Comments				·*		-

7. Supervision of Work					DNR Use Only
Name of Person or Firm Doing Sealing Work ON-SITE ENVIRONMENTAL			Abandonment	Date Received	Noted By
Street or Route			one Number	Comments	
City	State	ZIP Code	Signature of P	erson Doing Work	Date Signed

Well / Drillhole / Borehole Abandonment

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Route to:	
Drinking Water Watershed/Wastewater Waste Management	Remediation/Redevelopment Other:
1. General Information 2	Facility / Owner Information
WI Unique Well No. DNR Well ID No. County MILWAUKEE	ACTURAL CLEANERS
GP-9	acility ID License/Permit/Monitoring NdCity, Village or Town BATSIDE
SW SE 5 8 N ZZ W	8828 N. PORT WASHINGTON RD.
Feet NFeet E Local Grid Origin	Tresent Well Owner Original Well Owner
Latitude: DEG MIN SEC Longitude: DEG MIN SEC N W	City State ZIP Code
Reason For Abandonment WI Unique Well No. of Replacement We	A. Pump, Liner, Screen, Casing & Sealing Material
	Pump and piping removed?
3. Well / Drillhole / Borehole Information	Liner(s) removed?
Monitoring Well 12/20/07	Screen removed?
Waier Well	Casing left in place?
Borehole / Drillhole If a Well Construction Report is available, please attach.	Was casing cut off below surface?
Construction Type:	Did sealing material rise to surface?
Drilled Driven (Sandpoint) Dug	Did material settle after 24 hours?
X Other (specify): <u>GEOPROBE</u>	If yes, was hole retopped?
Formation Type:	If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A
X Unconsolidated Formation Bedrock	Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped
Total ₩σ# Depth From Groundsurface (ft.) Casing Diameter (in.)	Screened & Poured (Explain):
Lower Drillhole Diameter (in.) Z Casing Depth (fl.) NA	Sealing Materials Neat Cement Grout Sand-Cement (Concrete) Grout Clay-Sand Slurry (11 lb./gal. wt. Bentonite-Sand Slurry "
Was well annular space grouted? Yes No Unknown	Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:
If yes, to what depth (feet)? Depth to Water (feet)	Bentonite Chips Bentonite - Cement Grout Granular Bentonite Bentonite - Sand Slurry
5. Material Used To Fill Well / Drillhole	From (ft.) To (ft.) No. Yards, Sacks Sealant Mix Ratio or or Volume (circle one) Mud Weight
CONRETE	Surface $\phi.5$
CHIPPED BENTONITE	4.5 3
6. Comments	
· · · · · · · · · · · · · · · · · · ·	

7. Supervision of Work						DNR Use Only			
Name of Person or Firm Doing Sealing Work ON-SITE ENVIRONMENTAL					donment	Date Received	Noted B	ý	
Street or Route			Telepho (one N)	umber	Comments		•	
City	State	ZIP Coo	le		Signature of P	Person Doing Work		Date Signed	
					1				

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to: Watershed/Wastewater Waste Management	x Remediation/Redevelopment Other:					
1. General Information	2. Facility / Owner Information					
WI Unique Well No. DNR Well ID No. County Milwaukee	Facility Name Former Natural Cleaners					
Common Boring Name GP-14 Gov't Lot # (if applicable)	Facility ID License/Permit/Monitoring NcCity, Village or Town Bayside					
1/4 1/4 Section Township Range SW SE 5 8 N 22 V	E Street Address of Boring 8828 North Port Washington Road					
Grid Location Feet IN Feet E Local Grid Origin	Present Well Owner Original Well Owner					
s (estimated) OR Well Locat	ion					
Latitude: DEG MIN SEC	City State ZIP Code					
Reason For Abandonment WI Unique Well No. of Replacement	^{We} 4. Pump, Liner, Screen, Casing & Sealing Material					
3. Well / Drillhole / Borehole Information	Pump and piping removed?					
Original Construction Date	Liner(s) removed?					
Monitoring Well 09/25/2013	Screen removed?					
Water Well If a Well Construction Report is available.	Casing left in place?					
x Borehole / Drillhole please attach.	Was casing cut off below surface?					
Construction Type:	Did sealing material rise to surface?					
Drilled Driven (Sandpoint) Dug	Did material settle after 24 hours?					
Contraction Contra	If yes, was hole retopped?					
	If bentonite chips were used, were they hydrated with water from a known safe source? X Yes No N/A					
Formation Type:	Required Method of Placing Sealing Material					
X Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.) NA	Screened & Poured Other (Explain):					
Lower Drillhole Diameter (in)	Sealing Materials					
Was well annular space grouted?	vn Concrete					
If yes, to what depth (feet)? Depth to Water (feet)	For Monitoring Wells and Monitoring Well Boreholes Only:					
	Granular Bentonite					
5. Material Used To Fill Well / Drillhole	From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight					
Chipped bentonite	Surface 12.0					
6. Comments						

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work			Date of Abar	ndonment	Date Received	Noted By	
PROBE Technologies			09/25/2	013			
Street or Route			Telephone N	lumber	Comments		
			()				
City Palmyra	State ^{WI}	ZIP Code	9	Signature of Perso	on Doing Work	Date Signed	

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:	X Remedia	ation/Redev	elopment	Other:			
1. General Information	2. Facility	/ Owner I	nformation				
WI Unique Well No. DNR Well ID No. County Milwaukee	Facility Name	е	Natural Cl	eaners			
Common Boring Name GP-15 Gov't Lot # (if applicable)	Facility ID	Li	icense/Permit	-	ity, Village or Town Bayside		
1/4 / 1/4 1/4 Section Township Range SW SE 5 8 N 22		th Port W) Nashington	-			
Grid Location Feet N Feet E Local Grid Origin S W (estimated) OR Well Location	Present Well		e of Owner	Original Well O	wner		
Latitude: DEG MIN SEC Longitude: DEG MIN SEC N	_ City √			State	ZIP Code		
Reason For Abandonment Soil Boring Only WI Unique Well No. of Replacement W	^e 4. Pump, L	iner, Scre	en, Casing	& Sealing Mat	erial		
3. Well / Drillhole / Borehole Information	Pump and	l piping rem	oved?		Yes No XN/A		
Original Construction Date	Liner(s) re	emoved?			Yes No 🖄 N/A		
Monitoring Well 09/25/2013	Screen removed?						
Water Well If a Well Construction Report is available,	Casing lef	Casing left in place? ☐ Yes ☐ No ☎ N/A					
x Borehole / Drillhole please attach.	Was casir	ng cut off be	low surface?		Yes No 🖾 N/A		
Construction Type:	Did sealing material rise to surface?						
Drilled Driven (Sandpoint) Dug	Did material settle after 24 hours?						
X Other (specify):	If yes, was hole retopped?						
Formation Type:	If bentonite chips were used, were they hydrated with water from a known safe source? X Yes No N/A						
Image: Structure Image: Structure Imag	Required Method of Placing Sealing Material						
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.)	Image: Screened & Poured (Bentonite Chips) Other (Explain):						
Lower Drillhole Diameter (in.) 2.0 Casing Depth (ft.) NA	- Sealing Mate	erials ement Grou	t		nd Slurry (11 lb./gal. wt.)		
Was well annular space grouted?	Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:						
If yes, to what depth (feet)? Depth to Water (feet)	X Bentonit	•		Bentonite - Cem			
	Granula	r Bentonite		Bentonite - Sanc	l Slurry		
5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)		, Sacks Sealant ne (circle one)	Mix Ratio or Mud Weight		
Chipped bentonite	Surface	12.0					
6. Comments							

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work			Date of Abar	ndonment	Date Received	Noted By	
PROBE Technologies			09/25/2	013			
Street or Route			Telephone N	lumber	Comments		
			()				
City Palmyra	State ^{WI}	ZIP Code	9	Signature of Perso	on Doing Work	Date Signed	

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:	gement	X Remedia	ation/Redev	elopment	Other:		
1. General Information	2. Facility / Owner Information						
WI Unique Well No. DNR Well ID No. County Milwaukee		Facility Name Former Natural Cleaners					
Common Boring Name Gov't Lot # (if applicable GP-20	Facility ID	L	icense/Permi	-	i ty, Village or Town Bayside		
1/4 / 1/41/4SectionTownshipRangeSWSE58N22		th Port V) Nashington				
Grid Location Feet N Feet K S W (estimated) OR		Present Well Street Addre		e of Owner	Original Well O)wner	
Latitude: DEG MIN SEC Longitude: DEG MIN SE	EC W	City			State	ZIP Code	
Reason For Abandonment Soil Boring Only WI Unique Well No. of Replace	ement We	4. Pump, L	iner, Scre	en, Casing	& Sealing Mat		
3. Well / Drillhole / Borehole Information	-	•	l piping rem	noved?		Yes □No ^X N/A Yes □No ^X N/A	
Monitoring Well Original Construction Date		Liner(s) re Screen re				」Yes └─ No └─ N/A 」Yes └─ No └─ N/A	
Water Well	<u> </u>	Casing left in place?					
Borehole / Drillhole Bease attach.	<i>,</i> ,	Was casir	ng cut off be	elow surface?	, <u> </u>	Yes No XN/A	
Construction Type:		Did sealing material rise to surface?					
Drilled Driven (Sandpoint) Dug		Did material settle after 24 hours?					
X Other (specify):		If yes, was hole retopped?					
Formation Type:					safe source?	Yes No N/A	
X Unconsolidated Formation Bedrock		Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.)	NA	(Bentor	ed & Poure nite Chips)	d 🗌 Ot	her (Explain):		
Lower Drillhole Diameter (in.) 2.0 Casing Depth (ft.) NA		Sealing Mate	erials ement Grou	t		nd Slurry (11 lb./gal. wt.)	
Was well annular space grouted?	Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:						
If yes, to what depth (feet)? Depth to Water (feet)		× Bentonit	•		Bentonite - Cem		
		Granula	r Bentonite		Bentonite - Sand	-	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)		s, Sacks Sealant me (circle one)	Mix Ratio or Mud Weight	
Asphalt Patch		Surface	0.5				
Chipped bentonite		0.5	12.0				
6. Comments							

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work		Date of Abandonment		Date Received	Noted By		
Horizon Drilling		03/15/2017					
Street or Route			Telephone Number		Comments		
764 Tower Drive			()				
City	State ZIP Co		le Signature of Perso		n Doing Work	Date Signed	
Fredonia	WI	5302	1	Adam Sweet			

Well / Drillhole / Borehole Abandonment

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Route to: Watershed/Wastewater Waste Management	gement	× Remedia	ation/Redev	velopment	Other:		
1. General Information		2. Facility	/ Owner I	nformation	l		
WI Unique Well No. DNR Well ID No. County Milwaukee		Facility Nam	е	Natural Cl			
Common Boring Name GP-21 Gov't Lot # (if applicable))	Facility ID	L	icense/Perm	-	ty, Village or Town Bayside	
1/4 / 1/41/4SectionTownshipRangeSWSE58N22	Street Address of Boring 8828 North Port Washington Road						
Grid Location Feet NFeet E Local Grid Origin		Present Well Street Addre		e of Owner	Original Well O	wner	
Latitude: DEG MIN SEC N	Il Location	City			State	ZIP Code	
Reason For Abandonment Soil Boring Only WI Unique Well No. of Replace		4. Pump, L	iner, Scr	en, Casing	y & Sealing Mate		
3. Well / Drillhole / Borehole Information	_	Pump and	l piping ren	noved?		Yes ∐No ≚N/A	
Original Construction Date		Liner(s) re	emoved?		Ļ	Yes No 🖾 N/A	
Monitoring Well 03/15/2017		Screen removed?					
Water Well	·,	Casing left in place?					
Borehole / Drillhole please attach.		Was casing cut off below surface?					
Construction Type:		Did sealing material rise to surface?					
Drilled Driven (Sandpoint) Dug		Did material settle after 24 hours? Yes No N/A If yes, was hole retopped? Yes No N/A					
Conter (specify):							
		If bentonite chips were used, were they hydrated with water from a known safe source?					
Formation Type:						Yes No N/A	
x Unconsolidated Formation Bedrock		Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.)	NA	X Screen	ed & Poure nite Chips)	. 7 🗖	ther (Explain):		
Lower Drillhole Diameter (in.) 2.0 Casing Depth (ft.) NA		Sealing Materials					
Was well annular space grouted?	Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:						
If yes, to what depth (feet)? Depth to Water (feet)		X Bentonit	e Chips		Bentonite - Cem	ent Grout	
		Granula	r Bentonite		Bentonite - Sand	Slurry	
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)		s, Sacks Sealant ime (circle one)	Mix Ratio or Mud Weight	
Asphalt Patch		Surface	0.5				
Chipped bentonite		0.5	12.0				
6. Comments							

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work			Date of Abar	ndonment	Date Received	Noted By	
Horizon Drilling			03/15/2	017			
Street or Route			Telephone N	lumber	Comments		
764 Tower Drive			()				
City		ZIP Code)	Signature of Perso	n Doing Work	Date Signed	
Fredonia	WI	5302	1	Adam Sweet			

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to: Watershed/Wastewater Waste Management	nt 🛛 Remediation/Redevelopment 💭 Other:					
1. General Information	2. Facility / Owner Information					
WI Unique Well No. DNR Well ID No. County Milwaukee	Facility Name Former Natural Cleaners					
Common Boring Name GP-22 Gov't Lot # (if applicable)	Facility ID License/Permit/Monitoring NdCity, Village or Town Bayside					
1/4 / 1/41/4SectionTownshipRangeSWSE58N22	E Street Address of Boring 8828 North Port Washington Road					
Grid Location Feet NFeet E Local Grid Origin	Present Well Owner Original Well Owner					
Latitude: DEG MIN SEC N DEG MIN SEC	City State ZIP Code					
Reason For Abandonment Soil Boring Only WI Unique Well No. of Replacemen	4. Pump, Liner, Screen, Casing & Sealing Material					
3. Well / Drillhole / Borehole Information	Pump and piping removed?					
Original Construction Date	Liner(s) removed?					
Monitoring Well 03/15/2017	Screen removed?					
Water Well If a Well Construction Report is available,	Casing left in place?					
x Borehole / Drillhole please attach.	Was casing cut off below surface?					
Construction Type:	Did sealing material rise to surface?					
Drilled Driven (Sandpoint) Dug	Did material settle after 24 hours? Yes No N/A If yes, was hole retopped? Yes No N/A					
X Other (specify):						
	If bentonite chips were used, were they					
Formation Type:	hydrated with water from a known safe source? X Yes No N/A Required Method of Placing Sealing Material					
X Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.) NA	Screened & Poured Other (Explain):					
Lower Drillhole Diameter (in.) 2.0 Casing Depth (ft.) NA	Sealing Materials					
Was well annular space grouted?	For Monitoring Wells and Monitoring Well Boreholes Only:					
If yes, to what depth (feet)? Depth to Water (feet)	X Bentonite Chips Bentonite - Cement Grout					
	Granular Bentonite Bentonite - Sand Slurry					
5. Material Used To Fill Well / Drillhole	From (ft.) To (ft.) No. Yards, Sacks Sealant or Volume (circle one) Mix Ratio or Mud Weight					
Asphalt Patch	Surface 0.5					
Chipped bentonite	0.5 12.0					
6. Comments						

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work			Date of Abar	ndonment	Date Received	Noted By	
Horizon Drilling			03/15/2	017			
Street or Route			Telephone Number		Comments		
764 Tower Drive			()				
City		ZIP Code	le Signature of Perso		n Doing Work	Date Signed	
Fredonia	WI	5302	1	Adam Sweet			

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

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Route to:	stewater 🔲 Waste Management	X Remedi	ation/Redeve		Other:		
1. General Information		2. Facility / Owner Information					
WI Unique Well No. DNR Well ID N	No. County Milwaukee	Facility Name Former Natural Cleaners					
Common Boring Name GP-23	Facility ID	Li	cense/Permit	-	ty, Village or Town Bayside		
¼ / ¼ ¼ Section SW SE 5	Township Range ≍ E ⁸ N ²² ∏ W		th Port W	ashington			
Grid Location	Local Grid Origin	Present Wel Street Addre		of Owner	Original Well O	wner	
Latitude: DEG MIN SEC	(estimated) OR Well Location Longitude:	City			State	ZIP Code	
Reason For Abandonment WI Soil Boring Only	Unique Well No. of Replacement We	4. Pump, L	iner, Scre	en, Casing	& Sealing Mate	erial	
3. Well / Drillhole / Borehole Inform			d piping remo	oved?			
Monitoring Well Water Well	al Construction Date 03/15/2017	Liner(s) removed? ↓ Yes ↓ No ☆ N/A Screen removed? ↓ Yes ↓ No ☆ N/A Casing left in place? ↓ Yes ↓ No ☆ N/A					
	ell Construction Report is available, e attach.			low surface?		Yes No XN/A	
Construction Type:	pint) Dug	Did sealing material rise to surface? X Yes No N/A Did material settle after 24 hours? Yes X No N/A If yes, was hole retopped? Yes No N/A If bentonite chips were used, were they Yes No N/A					
Formation Type:	Bedrock	hydrated with water from a known safe source? X Yes No N/A Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped					
Total Well Depth From Groundsurface (f	t.) Casing Diameter (in.) _{NA}		ed & Poured nite Chips)	Oth	ner (Explain):		
Lower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) _{NA}	Sealing Materials Clay-Sand Slurry (11 lb./gal. wt.)					
Was well annular space grouted?	Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " " Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:						
If yes, to what depth (feet)?	Bentonit	te Chips r Bentonite		Bentonite - Ceme Bentonite - Sand			
5. Material Used To Fill Well / Drillhol	e	From (ft.)	To (ft.)		, Sacks Sealant ne (circle one)	Mix Ratio or Mud Weight	
As	phalt Patch	Surface	0.5				
Ch	ipped bentonite	0.5	12.0				
6. Comments							

7. Supervision of Work					DNR Use Only		
Name of Person or Firm Doing Sealing Work		Date of Abandonment		ndonment	Date Received	Noted By	
Horizon Drilling			03/15/2017				
Street or Route			Telephone Number		lumber	Comments	
764 Tower Drive			()			
City		ZIP Code	Code Si		Signature of Perso	on Doing Work	Date Signed
Fredonia	WI	5302	1		Adam Sweet		

Well / Drillhole / Borehole Abandonment

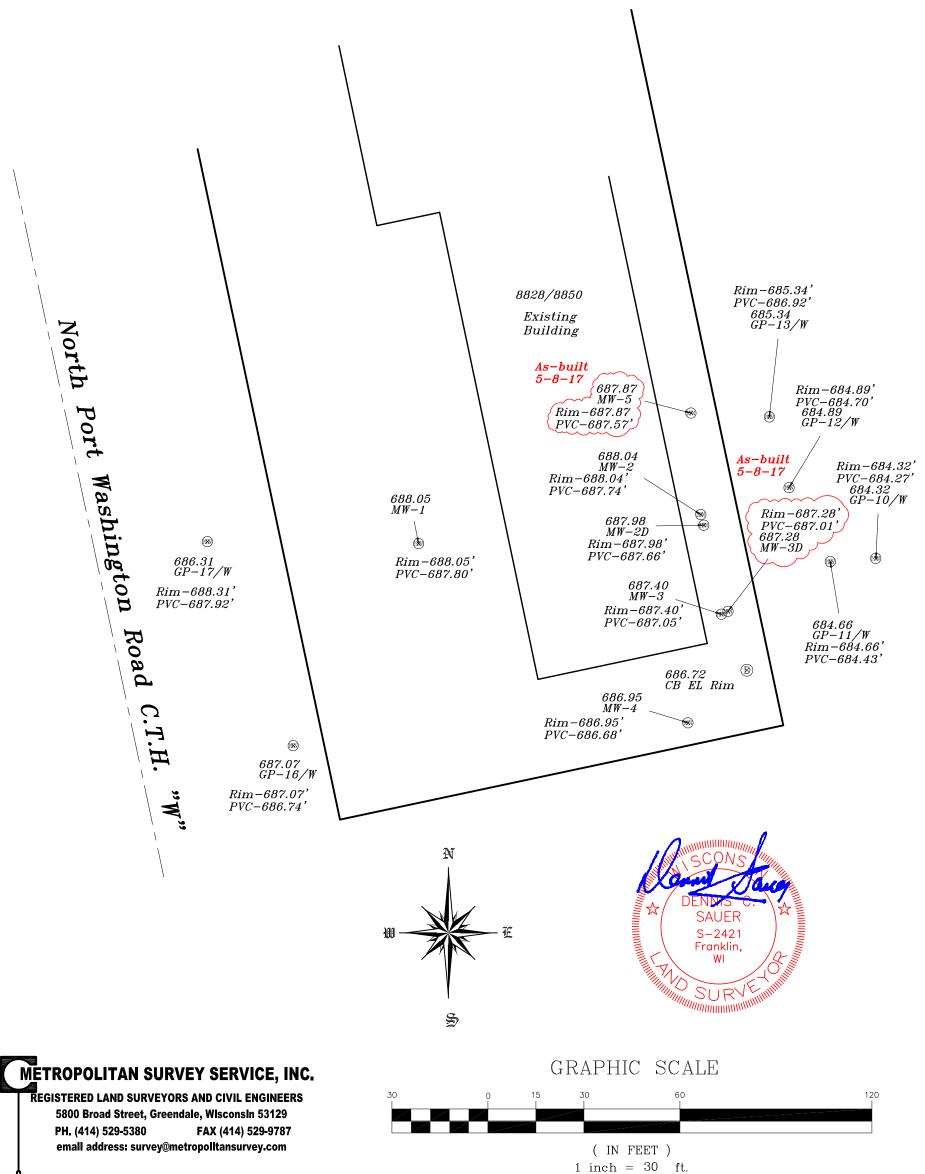
Form 3300-005 (R 10/03)

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Route to:	agement	× Remedia	ation/Redev		Other:				
1. General Information	2. Facility / Owner Information								
			Facility Name Former Natural Cleaners						
Common Boring Name GP-24 Gov't Lot # (if applicable)			/ ID License/Permit/Monitoring NdCity, Village or Town Bayside						
1/4 / 1/41/4SectionTownshipRangeSWSE5822				Street Address of Boring 8828 North Port Washington Road					
Feet NFeet E Local Grid Origin			Present Well Owner Original Well Owner Street Address or Route of Owner						
Latitude: DEG MIN SEC Longitude: DEG MIN SEC N	W	City			State	ZIP Code			
Reason For Abandonment WI Unique Well No. of Repla Soil Boring Only		4. Pump, Liner, Screen, Casing & Sealing Material							
3. Well / Drillhole / Borehole Information			Pump and piping removed?						
Original Construction Date		Liner(s) removed?							
Monitoring Well 03/15/2017 Water Well Borehole / Drillhole If a Well Construction Report is available, please attach			Screen removed?						
Image: Serencie / Drillhole please attach. Construction Type: Image: Driven (Sandpoint) Image: Driven (Sandpoint) Image: Dug Image: Serencie / Driven (Sandpoint) Image: Dug I			Was casing cut off below surface? Yes No X N/A Did sealing material rise to surface? X Yes No N/A						
			Did material settle after 24 hours? Yes No N/A If yes, was hole retopped? Yes No N/A If bentonite chips were used, were they If the set of the set o						
Formation Type:		hydrated with water from a known safe source? X Yes No N/A							
x Unconsolidated Formation Bedrock			Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped						
Total Well Depth From Groundsurface (ft.) Casing Diameter (in.) NA			Image: Screened & Poured (Bentonite Chips) Other (Explain):						
Lower Drillhole Diameter (in.) 2.0 Casing Depth (ft.) NA		Sealing Materials Clay-Sand Slurry (11 lb./gal. wt.) Sand Compart (Concrete) Grout Bentonite-Sand Slurry "							
		Sand-Cernent (Concrete) Grout Bentonite Chips Concrete Bentonite Chips For Monitoring Wells and Monitoring Well Boreholes Only:							
If yes, to what depth (feet)? Depth to Water (feet)		Bentonite Chips Bentonite - Cement Grout							
		Granula	r Bentonite		Bentonite - Sanc	-			
5. Material Used To Fill Well / Drillhole		From (ft.)	To (ft.)		s, Sacks Sealant me (circle one)	Mix Ratio or Mud Weight			
Asphalt Patch			0.5						
Chipped bentonite			12.0						
6. Comments									

7. Supervision of Work				DNR Use Only		
Name of Person or Firm Doing Sealing Work		Date of Abandonment		Date Received	Noted By	
Horizon Drilling		03/15/2017				
Street or Route		Telephone Number		Comments		
764 Tower Drive			()			
		ZIP Code	Э	Signature of Person Doing Work		Date Signed
Fredonia	WI	5302	1	Adam Sweet		

APPENDIX B



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