

May 15, 2019

Mr. Binyoti Amungwafor
WDNR
2300 North Martin Luther King Jr. Drive
Milwaukee, WI 53212

RE: Discharge Management Plan for Soil Mixing and Treatment, Remedial Action,
Former Shorewood Queensway Cleaners, 4300 North Oakland Avenue, Shorewood,
Wisconsin, BRRTS # 02-41-552089

Dear Binyoti:

This document is intended to serve as the required Discharge Management Plan for the WPDES permit application process. The described mixing, treatment, and monitoring elements are also intended to provide enough information for the Wisconsin Department of Natural Resources (WDNR) to grant a temporary exemption for injection per the criteria of NR 140.28(5).

Attached are the following completed and signed WDNR forms:

- WPDES Notice of Intent Form
- Additive Review Worksheet

Introduction and Objective

On April 25, 2019, Mr. John Hnat of the WDNR approved the Fehr Graham Revised Remedial Action Plan from April 24, 2019. The Plan presented information on sample locations, current chemistry, soil and concrete quantities, and treatment chemicals proposed at the former Shorewood Queensway Cleaners BRRTS site (Property) located at 4300 North Oakland Avenue in Shorewood, Wisconsin.

The overall goals for remediation at the site will be the NR 140 groundwater standards (ES and PAL). A source removal effort is planned to significantly reduce the soil contaminant mass. Cost-effective elimination of all contamination in soil to levels below the generic WDNR Residual Contaminant Levels (RCLs) will not be possible, regardless of the remediation method, as low levels of tetrachloroethene (PCE) are present off-site beneath Oakland Avenue.

Planned Remedial Excavation, Chemicals, and Processes

The approved plan includes excavation and landfill disposal of an estimated 1,380 tons of direct haul soil, 936 tons of treated soil, and 151 tons of contaminated concrete. Contamination exists primarily beneath the building in the area of prior drycleaning operations. The excavation dimensions are shown in the attached figures.

Some of the soil cannot be directly excavated and landfilled due to elevated concentrations of PCE. To lower the concentrations to allow for landfill disposal as a solid

waste, spray-on addition of Fenton's Reagent will be performed, with mixing of the chemicals and the soil using a conventional backhoe operated by a contractor. The solutions will be mixed on site inside a treatment system trailer and will be pumped onto the soil using hoses and spray nozzles to achieve the correct consistency of soil and treatment chemicals. Water will be provided by tapping a hydrant located on-site, owned by the Village of Shorewood. Permits from the Village of Shorewood will be obtained prior to implementation.

In addition to Fenton's Reagent, which is a mixture of hydrogen peroxide and sulfuric acid, will be BAM™, a 90 percent carbon, 10 percent mineral solid. These substances will be mixed with the contaminated soil in estimated 2 to 4 foot lifts followed by testing for total Volatile Organic Compounds (VOCs), and TCLP VOC's. If the soil passes test criteria identified in the WDNR April 25, 2019 approval letter, the material will be removed and taken to a licensed subtitle D landfill for disposal.

If the soil does not pass, it will be treated with additional chemical and mixed, then retested. Drop boxes will be rented to place the treated soil pending laboratory test results, so further mixing and excavation activities at greater depths can proceed.

Fenton's Reagent is a strong oxidizer, and we will have another company, Orin Technologies of Madison, conducting that operation. Chemicals stored at the site to use in this process will include 50 percent hydrogen peroxide (which will be diluted down to 15 percent for use in the Fenton's mixture), sodium citrate dihydrate, ferrous sulfate, sulfuric acid (93 percent but diluted down), phosphoric acid (85 percent but diluted down) and a proprietary solid mixture called BAM™, consisting of 90 percent carbon and 10 percent minerals. The liquid chemicals will be secured inside a locked building or trailer, and the entire parcel perimeter will be secured from visitor traffic with a 6 to 8 foot high chain link fence or equivalent.

A total of 2,500 gallons of 25 percent Fenton's Reagent and 76 cubic yards of BAM™, a solid, is planned for use.

Post-Excavation Chemical Addition and Backfill

Upon completion of the excavation, the following will be completed:

- Placement of 12 cubic yards of BAM™ within soil from the bottom foot of the deepest part of the excavation, with material placement preferentially directed to contact soil at the north wall of the excavation adjacent to the neighboring building. The BAM™ will be briefly incorporated into the base soils using the backhoe bucket to facilitate contact with the soil, then tamped into place.
- Backfill the excavation to 1 foot below grade using imported bank run sand and gravel compacted in 1 foot lifts. The base of the excavation will receive a minimum of 1 foot of 3-inch clear stone.
- Traffic bond, or other compactible granular material with significant fines, will be placed on the 4300 N. Oakland Street property. The surficial material will be thoroughly compacted and crowned to limit infiltration of precipitation and direct surficial drainage to the adjacent remaining asphalt surfaces. This material should contain abundant fines and granular material that sets up hard to minimize

infiltration of precipitation. Compaction will be required in two 6-inch lifts to ensure proper density to limit infiltration.

- The surficial 6 inches of all site disturbed areas on the 1808 E. Marion Street parcel will be backfilled with soil. A vegetative cover, likely grass, will be planted with the specific blend as specified by the Village of Shorewood.
- Restoration of monitoring wells MW-3 and MW-5 with wells MW-3R and MW-5R in the excavation backfill. Well screened intervals will extend from approximately 3 to 13 feet below grade at each location.
- Installation of two piezometers (PZ-10 and PZ-11) with screened intervals from 25 to 30 feet below grade at locations adjacent to wells MW-3R and MW-5R.
- Except for the excavation proposed on the 4312 parcel to the north, no resurfacing with concrete or asphalt will be performed. The 4312 property to the north will be restored to current conditions, with installation of concrete and asphalt.

Utilities

Utilities are shown on the attached maps and include storm sewer, sanitary sewer, and water line. Removal of all private underground utilities is planned within the excavation footprint areas to facilitate the dig and mixing operations. Because there is no pressure injection at this site, and merely spray on chemical addition, no migration of sprayed-on chemicals is expected to take place.

Wisconsin Electric Power Company (WEPCO) has been contacted regarding the electric pole on the northeast corner of the Shorewood Cleaners property. The pole has electric and utility lines and a private light mounted on it. WEPCO is preparing a plan for relocation of the power poles to the eastern property boundary.

Further discussions with the utility will clarify specifics.

Proposed Monitoring During Injection

Since added liquid chemicals are not being pressure injected and surface sprayed, and the BAM™ is a solid and all soil containing chemicals will be excavated and removed shortly after addition, only minimal monitoring for potential off-site chemical contaminant migration is planned or necessary. Monitoring wells MW-3 and MW-5, in the heart of the excavation and treatment area, will be removed during the remediation and restored upon completion of backfilling. All other monitoring wells will remain in place that are proposed for monitoring.

Pre-excavation monitoring of water level, dissolved oxygen, pH, conductivity, and oxidation/reduction potential will be recorded from wells MW-1, MW-2, MW-4, MW-6, MW-7, MW-8, and MW-9, which is located in the basement of the adjacent building (Figure 1). Gasses in the headspace of these wells will also be monitored with a four gas meter for percent oxygen, percent carbon dioxide, hydrogen sulfide, and percent of the lower explosive limit (LEL), and for volatile organic content, using a photoionization detector.

Existing subslab vapor points within the basement, and the exhaust gas from the operating subslab vapor mitigation system, will be monitored for the same parameters to assess potential vapor mobilization during the soil mixing process.

During days when chemical additions occur in the excavation, measurements of these parameters will be performed twice per day, once before or as mixing is occurring, and once after in-ground chemical additional and mixing has concluded.

Post-Injection Monitoring

After the mixing and final removal/excavation of the soil from the ground has been completed, the following injection-permit related field activities will be completed:

- Approximately 24 hours following final removal of mixed soil, the wells and basement test locations referenced above within the adjacent building will be monitored for gasses only (field VOCs, CO₂, LEL, H₂S, O₂), using the four gas meter from the well headspace. If changes in water chemistry values from nearby monitoring wells changed by more than 25 percent during previous monitoring during the mixing process, measurement of the in-well water chemistry parameters will also be performed.

Upon completion of the field work and receipt of final laboratory analytical results, a Remedial Action Documentation Report will be prepared. The Report will include a summary of the field measurements retained during the mixing phase of the project.

I trust these documents meet your needs, and you have enough information to issue the permit. If you need additional information, please call and let me know. We hope to begin the remedial action in the summer of 2019 and look forward to hearing from you shortly.

Sincerely,

Dillon Plamann
Environmental Technician

Attachments: Completed WDNR Notice of Intent WPDES Permit WI-0046566-07-0
Completed Hydrogen Peroxide WDNR Additive Review Worksheet
Completed BAM WDNR Additive Review Worksheet
Safety Data Sheet for Fentons Reagent
Safety Data Sheet for BAM™
Figure 4A: Proposed Concrete Disposal
Figure 4B: Proposed Dig 0.5-5'
Figure 4C: Proposed Dig 5-9'
Figure 4D: Proposed Dig 9-14'
Figure 4E: Proposed Dig 14-18'
Groundwater Laboratory Analytical Report

Attachments

Notice: Pursuant to chs. NR 200 and 205, Wis. Adm. Code, this notice of intent (NOI) is required to request coverage under the Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-0046566-07-0 for discharges of contaminated groundwater to waters of the state of Wisconsin. Failure to complete this form in its entirety may result in a returned NOI or a denied NOI. Personal information collected will be used for administrative purposes and may be provided to requestors to the extent required by Wisconsin Open Records law [ss. 19.31-19.39, Wis. Stats.].

SECTION I: FACILITY/PROJECT LOCATION INFORMATION			
Facility/Project Name Shorewood Queensway Cleaners		Facility Mailing Address (i.e. PO Box, Street, or Route) 4300 North Oakland Avenue	
Facility/Project Physical Address (i.e. Street or Route) 4300 North Oakland Avenue		City, State, Zip Code Shorewood, WI 53211	
County Milwaukee	Facility Phone No. 414-418-9768	Facility Fax No.	Facility Email Address tschafer@wi.rr.com
SECTION II: FACILITY CONTACT INFORMATION			
Facility Operator/Plant Manager Tom Schafer		Title Property Owner	
Company Bayside Development		Contact Mailing Address (i.e. PO Box, Street, or Route) 2551 North Wahl Avenue	
City, State, Zip Code Milwaukee, WI 53211		Contact Phone No. 414-418-9768	Alternative Phone No. 414 840-6667
Contact Fax No.		Contact Email Address tschafer@wi.rr.com	
Discharge Monitoring Contact Name Kendrick Ebbott		Title Branch Manager	
Company Fehr Graham Inc		Contact Mailing Address (i.e. PO Box, Street, or Route) 909 North 8 th Street	
City, State, Zip Code Sheboygan, WI 53081		Contact Phone No. 920 453-0700	Alternative Phone No. 920 980-4231
Contact Fax No. 920 453-0750		Contact Email Address Kebbott@fehr-graham.com	
Authorized Representative Name Tom Schafer		Title Property Owner	
Company Bayside Development		AR Mailing Address (i.e. PO Box, Street, or Route) 2551 North Wahl Avenue	
City, State, Zip Code Milwaukee, WI 53211		AR Phone No. 414-418-9768	Alternative Phone No.
AR Fax No.		AR Email Address tschafer@wi.rr.com	

SECTION III: FACILITY OWNER MAILING ADDRESS (if different from Authorized Representative)		
Facility Owner Name Bayside Development – same information	Title	
Parent Company	Owner Mailing Address (i.e. PO Box, Street, or Route)	
City, State, Zip Code	Owner Phone No.	Alternative Phone No.
Contact Fax No.	Contact Email Address	

SECTION IV: DISCHARGE CHARACTERIZATION					
Type of Wastewater (check all that apply):	Discharge Frequency (e.g. Annual, Monthly, Daily)	Average Daily Flow (gallons of water discharged per day)	Type of Wastewater (check all that apply):	Discharge Frequency (e.g. Annual, Monthly, Daily)	Average Daily Flow (gallons of water discharged per day)
<input type="checkbox"/> Treated wastewater from groundwater remediation project			<input type="checkbox"/> Cleaning or decontamination wastewaters from the cleaning of treatment equipment for a remediation project		
<input type="checkbox"/> Infiltration or injection of a substance or remedial material for remediation of soil or groundwater			<input checked="" type="checkbox"/> Other (describe type) Potable water with 25% Hydrogen Peroxide (Fentons)	One time- 5 days	2000 gal per day
<input type="checkbox"/> Treated wastewater from dewatering of construction trenches or pits			<input type="checkbox"/> Other (describe type)		
<input type="checkbox"/> Landspreading or spray irrigation of agricultural chemical contaminated wastewater			<input type="checkbox"/> Other (describe type)		

SECTION V: ELIGIBILITY CHECKLIST
1. Is the wastewater discharged from and/or to properties within tribal lands (i.e. land owned by or held in trust for the tribes and land within recognized reservation boundaries)?
<input type="checkbox"/> Yes. Your discharge is not eligible for this General Permit. <i>If all discharges from your facility go to or come from properties in tribal lands, you do not require regulation under a WPDES discharge permit. Therefore, skip the</i>

rest of the NOI and sign the last page. We will remove you from our tracking system. The Tribe or United States Environmental Protection Agency (EPA) regulates discharges within tribal lands.

No. **Proceed to question 2.**

2. Is the wastewater discharged to a Publicly Owned Treatment Works (i.e. sanitary sewer)? A septic system is not considered a sanitary sewer.

Yes. **Your discharge is not eligible for this General Permit.** *If all discharges from your facility go to a sanitary sewer, you do not require regulation under a WPDES discharge permit. Therefore, skip the rest of the NOI and sign the last page. We will remove you from our tracking system. If at some point in the future operations at your facility result in a discharge, you will need to inform the Department. If only some or no discharges from your facility go to the sanitary sewer, please proceed to question 3.*

No. **Proceed to question 3.**

3. Are any of the following wastewaters discharged or mixed with the above wastewaters to surface water or groundwater: Contact or noncontact cooling water, water from boiler cleaning operations, air compressor condensate contaminated with oil and grease, softener regeneration backwash, municipal wastewater, domestic wastewater, or process wastewaters from the production of any material or product, or other wastewater not otherwise cover by this general permit?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 4.**

4. What is the receiving water for your discharge? If your facility has more than one outfall, indicate in the space provided which outfalls go to groundwater and which go to surface waters. (*check all that apply*)

Groundwater Discharge (*any wastewater that is allowed to infiltrate or seep into the soil from a permeable surface including but not limited to any drain field, agricultural field, ditch, swale, depression, trench or pit, adsorption pond, infiltration pond, rain garden, prairie, or vegetative area that may impact groundwater quality*). **If you will only be discharging to groundwater, please proceed to question 5.**

Outfall #(s):

Wetland Discharge (*any discernible, confined and discrete conveyance system including but not limited to any pipe, ditch, channel, tunnel, conduit, swale, or storm sewer that will carry wastewater to a wetland. Wetlands mean an area where water is at, near or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wet conditions*). **If you will only be discharging to wetlands, please proceed to question 5.**

Outfall #(s):

Note: *The Department will need to determine if your discharge would cause significant adverse impacts to wetlands*

Surface Water Discharge (*any discernible, confined and discrete conveyance system including but not limited to any pipe, ditch, channel, tunnel, conduit, swale, or storm sewer that will carry wastewater to a creek, stream, pond, marsh, bay, reservoir, river, lake, or other surface water within the state of Wisconsin*). **Proceed to question 4A.**

Outfall #(s):

A. What is the name(s) of the surface water your discharge enters?

Proceed to question 4B.

B. What is the Water Body Identification Code (WBIC) of the surface water your discharge enters?

Proceed to question 4C.

Note: The WBIC for a specific surface water can be found at: <http://dnr.wi.gov/water/waterSearch.aspx>.

C. Is the discharge directly to a surface water classified as an outstanding or exceptional resource waters as defined in ch. NR 102, Wis. Adm. Code.?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 4D.**

D. Is the discharge directly to a surface water classified as a public water supply (i.e. Lake Superior, Lake Michigan and Lake Winnebago) in ch. NR 104, Wis. Adm. Code?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 5.**

5. Does the discharge contain water treatment additives (i.e. biocides such as microbicides, fungicides, molluscicides, chlorine, etc.) or water quality conditioners (i.e. scale and corrosion inhibitors, pH adjustment chemicals, oxygen scavengers, conditioning agents, water softening compounds, etc.) that may enter surface water or groundwater without receiving wastewater treatment or that are used in a treatment process but are not expected to be removed by wastewater treatment?

Yes. **For each additive used, please fill out and attach an Additive Review Worksheet.** *Additive Review Worksheets must be completed to receive coverage under this general permit. The Additive Review Worksheet is not required for additives with active ingredients consisting of chlorine, hypochlorite, sulfuric acid, hydrochloric acid or sodium hydroxide. Also, chemicals used in an industrial process generating wastewater that eventually receives treatment or chemicals added as part of wastewater treatment process (such as ferric chloride, alum or pickle liquor) are not considered water treatment additives and need not require an additive review. Proceed to question 6.*

No. **Proceed to question 6.**

6. Will chlorine-based compounds be used to control the growth of micro-organisms in the treatment system or used to decontaminate the treatment system after completion of the remediation project?

Yes. **Proceed to question 6A.**

No. **Proceed to question 7.**

A. Will chemicals be used to dechlorinate the wastewater prior to discharge to surface water?

Yes. **The wastewater will be dechlorinated with chemicals. Proceed to question 7.**

No. **The wastewater will not be dechlorinated with chemicals. Proceed to question 7.**

7. Is a discharge management plan attached to this NOI that includes all the information necessary from Section 3 of the permit?

Yes. **Proceed to question 8.**

No. **This form will be considered incomplete and returned to you.**

8. Has the groundwater at the site been analyzed for contaminants and are the results attach to the discharge management plan?

Yes. **Proceed to question 9.**

No. **This form will be considered incomplete and returned to you.**

9. If a treatment facility is required for the treatment of contaminated groundwater, have the plans and specifications been submitted to or approved by the department under s. 281.41, Wis. Stats., and ch. NR 108, Wis. Adm. Code?

Yes. **Proceed to Section VI. NOT APPLICABLE**

No. **Please contact wastewater plan review staff to find out how to get the plans approved. Proceed to Section VI.**

Note: Department wastewater plan review staff can be found here:

<http://dnr.wi.gov/topic/wastewater/planreviewers.html>.

Additionally, department plan submittal requirements can be found here:

<http://dnr.wi.gov/topic/wastewater/AdequateSubmittal.html>.

SECTION VI: CERTIFICATION


This form must be signed by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2., Wis. Adm. Code. To delegate signatory authority to a duly authorized representative, please submit a Delegation of Signature Authority (DSA) form (Form 3400-220).

I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Representative Name <i>Thomas Scholtz</i>	Title <i>owner</i>
Authorized Representative Signature 	Date Signed <i>5-10-17</i>
Submitter Name (If different from Authorized Representative) Kendrick Ebbott	Title Branch Manager

State of Wisconsin
Department of Natural Resources
Bureau of Water Quality
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notice of Intent (NOI)
Contaminated Groundwater from Remedial
Action Operations
WPDES Permit No. WI-0046566-07-0
Rev. 06/2018

Submitter Signature 	Date Signed 5-2-19
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Please print and sign this certification page. Scan and email the completed form, certification page and any other supporting information to the department regional general permit reviewer at least thirty (30) business days before the expected start date of discharge. A listing of the general permit reviewers for each region with mailing addresses and phone numbers can be found at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. Please scroll to the "How to Apply" section and click the department region that the discharge is located in.

Additive Review Worksheet

This worksheet summarizes the information to be submitted to the WDNR for review of additives. This information is required because additives are approved on a case-by-case basis.

The fields highlighted in orange are required for all additive reviews and are NOT typically found on a safety data sheet (SDS).

The fields highlighted in blue are required for all additive reviews and are typically found on a SDS.

Parts D and E need to be completed **for each species** (e.g. Daphnia -water flea); Pimephales (fathead minnow), etc) for which a toxicity test is conducted.

The fields highlighted in green are NOT typically found on a SDS and are required for toxicity tests conducted when “Other” is selected for Test Method in Part D-1.

If all of the needed information is not provided on the SDS, It is recommended that you contact the chemical distributor and/or manufacturer to obtain the required information. You do not need to conduct the toxicity test if the toxicity information is available on SDS or from the supplier/manufacturer. If the required toxicity data is not provided to the Department, the additive product may not be approved for use.

Note: Toxicity test results must address the **commercial product formulation**. The commercial product formulation is all active ingredients and any and all carriers, buffering agents, binding agents, and additional materials – the entire product as used. Information related to active ingredient alone is not sufficient.

For more information on the additive review process, see the “[Water Quality Review Procedures for Additives](#)” guidance document.

A. General Production Information

Date of Request:	April 29, 2019
Permittee Facility Name:	Shorewood Queensway Cleaners, Shorewood, WI
Product Trade Name:	Hydrogen Peroxide 50% Standard Grade
Product Manufacturer:	Hydrite Chemical Company

Active Ingredients:

Ingredient Name*	CAS Number**	%wt or % vol
Hydrogen Peroxide	7722-84-1	~ 50 % Wt
* Must be provided unless noted to be proprietary information		
** If available		

Is this product replacing another additive
(if yes, include product name)?

 Yes No

Current Product Name:

B. Dosage or Application Information

Purpose of additive:	Treatment of drycleaner contamination in soil
Proposed dosage rate:	2,500 gallons of Hydrogen Peroxide is planned
Estimated maximum discharge concentration:	for use.
	lbs/day
	mg/L
	lbs/day
	mg/L

C. Toxicity Test Results

Test Species	Toxicity Value Type (e.g., LC50, EC50, NOAEL)	Toxicity Value	Toxicity Value Units (e.g., mg/L, µg/L, ppm)
Fish 96 h	LC50	Slightly Toxic	10-37 mg/l
Daphnia magna (Water Flea)	EC50	Moderately Toxic	7.7 mg/L
Daphnia pulex (Water Flea)	EC50	Moderately Toxic	2.4 mg/L
Bacteria	EC50	Slightly Toxic	30 mg/L
Algae	EC50	Highly Toxic	0.85 mg/L

Print one copy of this page for each species that has been tested.**D. Toxicity Test Parameters**

NO KNOWN ADDITIONAL TOXICITY TESTS

1. Parameters needed for **ALL** reviews

Test species:	<input type="checkbox"/> Ceriodaphnia species (specify: _____) <input type="checkbox"/> Daphnia species (specify: _____) <input type="checkbox"/> Pimephales promelas (fathead minnow) <input type="checkbox"/> Lepomis macrochirus (bluegill) <input type="checkbox"/> Oncorhynchus mykiss (rainbow trout) <input type="checkbox"/> Salvelinus fontinalis (brook trout)								
Test method:	<input type="checkbox"/> WI certified WET testing lab/method <input type="checkbox"/> EPA method (select from those listed below) <table border="0"> <tr> <td><input type="checkbox"/> Acute-2002.0</td> <td><input type="checkbox"/> Chronic-1000.0</td> </tr> <tr> <td><input type="checkbox"/> Acute-2021.0</td> <td><input type="checkbox"/> Chronic-1001.0</td> </tr> <tr> <td><input type="checkbox"/> Acute-2000.0</td> <td><input type="checkbox"/> Chronic-1002.0</td> </tr> <tr> <td><input type="checkbox"/> Acute-2019.0</td> <td><input type="checkbox"/> Chronic-1003.0</td> </tr> </table> <input type="checkbox"/> Other (additional information needed; see part D2)	<input type="checkbox"/> Acute-2002.0	<input type="checkbox"/> Chronic-1000.0	<input type="checkbox"/> Acute-2021.0	<input type="checkbox"/> Chronic-1001.0	<input type="checkbox"/> Acute-2000.0	<input type="checkbox"/> Chronic-1002.0	<input type="checkbox"/> Acute-2019.0	<input type="checkbox"/> Chronic-1003.0
<input type="checkbox"/> Acute-2002.0	<input type="checkbox"/> Chronic-1000.0								
<input type="checkbox"/> Acute-2021.0	<input type="checkbox"/> Chronic-1001.0								
<input type="checkbox"/> Acute-2000.0	<input type="checkbox"/> Chronic-1002.0								
<input type="checkbox"/> Acute-2019.0	<input type="checkbox"/> Chronic-1003.0								
Test type:	<input type="checkbox"/> Static non-renewal <input type="checkbox"/> Static-renewal <input type="checkbox"/> Flow-through								
Control response:	<input type="checkbox"/> ≥ 90% survival <input type="checkbox"/> Other (Note: if this is selected, this data cannot be used)								

2. Parameters needed when using “**other**” test methods

Dilution water:	<input type="checkbox"/> Moderately hard synthetic water <input type="checkbox"/> Synthetic water <input type="checkbox"/> Receiving water <input type="checkbox"/> Ground water <input type="checkbox"/> Other (Specify: _____)
Number of test concentrations:	
Dilution series:	
Water chemistry analyses (check all that apply):	<input type="checkbox"/> pH <input type="checkbox"/> Conductivity <input type="checkbox"/> Hardness <input type="checkbox"/> Alkalinity
Temperature:	<input type="checkbox"/> 12±1 °C <input type="checkbox"/> 20±1 °C <input type="checkbox"/> 25±1 °C <input type="checkbox"/> Other (Specify: _____)
Number of organisms per test chamber:	
Number of replicate chambers per concentration:	
Number of organisms per concentration:	
Method for calculating the response endpoint:	

Additive Review Worksheet

This worksheet summarizes the information to be submitted to the WDNR for review of additives. This information is required because additives are approved on a case-by-case basis.

The fields highlighted in orange are required for all additive reviews and are NOT typically found on a safety data sheet (SDS).

The fields highlighted in blue are required for all additive reviews and are typically found on a SDS.

Parts D and E need to be completed **for each species** (e.g. Daphnia -water flea); Pimephales (fathead minnow), etc) for which a toxicity test is conducted.

The fields highlighted in green are NOT typically found on a SDS and are required for toxicity tests conducted when “Other” is selected for Test Method in Part D-1.

If all of the needed information is not provided on the SDS, It is recommended that you contact the chemical distributor and/or manufacturer to obtain the required information. You do not need to conduct the toxicity test if the toxicity information is available on SDS or from the supplier/manufacturer. If the required toxicity data is not provided to the Department, the additive product may not be approved for use.

Note: Toxicity test results must address the **commercial product formulation**. The commercial product formulation is all active ingredients and any and all carriers, buffering agents, binding agents, and additional materials – the entire product as used. Information related to active ingredient alone is not sufficient.

For more information on the additive review process, see the “[Water Quality Review Procedures for Additives](#)” guidance document.

A. General Production Information

Date of Request: April 29, 2019
 Permittee Facility Name: Shorewood Queensway Cleaners, Shorewood, WI
 Product Trade Name: BAM
 Product Manufacturer: Orin Technologies

Active Ingredients:

Ingredient Name*	CAS Number**	%wt or % vol
Carbon (wood derived)	7440-44-0	85-95 % Wt
* Must be provided unless noted to be proprietary information ** If available		

Is this product replacing another additive (if yes, include product name)? Yes No
 Current Product Name:

B. Dosage or Application Information

Purpose of additive: Treatment of drycleaner contamination in soil
 Proposed dosage rate: 76 cubic yards of BAM is planned for use. lbs/day
 Estimated maximum discharge concentration: mg/L
 lbs/day
 mg/L

C. Toxicity Test Results

Test Species	Toxicity Value Type (e.g., LC50, EC50, NOAEL)	Toxicity Value	Toxicity Value Units (e.g., mg/L, µg/L, ppm)
NO INFORMATION KNOWN			
TO BE AVAILABLE -			
MATERIAL IS CARBON -			
NOT TOXIC SUBSTANCE			

Print one copy of this page for each species that has been tested.

D. Toxicity Test Parameters

1. Parameters needed for **ALL** reviews

NO INFORMATION
KNOWN
TO BE AVAILABLE -

Test species:

- Ceriodaphnia species (specify: MATERIAL IS CARBON -)
- Daphnia species (specify: NOT TOXIC)
- Pimephales promelas (fathead minnow) SUBSTANCE
- Lepomis macrochirus (bluegill)
- Oncorhynchus mykiss (rainbow trout)
- Salvelinus fontinalis (brook trout)

Test method:

- WI certified WET testing lab/method
- EPA method (select from those listed below)
 - Acute-2002.0 Chronic-1000.0
 - Acute-2021.0 Chronic-1001.0
 - Acute-2000.0 Chronic-1002.0
 - Acute-2019.0 Chronic-1003.0
- Other (additional information needed; see part D2)

Test type:

- Static non-renewal Static-renewal Flow-through

Control response:

- ≥ 90% survival
- Other (Note: if this is selected, this data cannot be used)

2. Parameters needed when using “**other**” test methods

Dilution water:

- Moderately hard synthetic water
- Synthetic water
- Receiving water
- Ground water
- Other (Specify:)

Number of test concentrations:

Dilution series:

Water chemistry analyses
(check all that apply):

- pH
- Conductivity
- Hardness
- Alkalinity

Temperature:

- 12±1 °C
- 20±1 °C
- 25±1 °C
- Other (Specify:)

Number of organisms per test chamber:

Number of replicate chambers per concentration:

Number of organisms per concentration:

Method for calculating the response endpoint:

SAFETY DATA SHEET

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

Revised: 01-31-2014

Replaces: 01-27-2014

1. IDENTIFICATION

Product Name: HYDROGEN PEROXIDE 50% STANDARD GRADE
Synonyms: Peroxide; Hydrogen Dioxide
CAS Number: MIXTURE
Recommended Use: No data available.
Restrictions on Use: No data available.

Hydrite Chemical Co.
300 N. Patrick Blvd.
Brookfield, WI 53008-0948
(262) 792-1450

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION



Signal Word: Danger

GHS Classification: Skin Corrosion/Irritation Category 1B
Serious Eye Damage/Eye Irritation Category 1
Oxidizing Liquid Category 2
Acute Toxicity - Inhalation Vapour Category 3
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Acute Toxicity - Inhalation Dust / Mist Category 4
Acute Toxicity - Oral Category 4

Hazard Statements: May intensify fire; oxidizer.
Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.
Toxic if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Precautionary Statements:

Prevention: Keep away from heat, sparks, open flames and hot surfaces. – No smoking.
Keep away from clothing and other combustible materials.
Take any precaution to avoid mixing with combustibles.
Do not breathe dust, fume, gas, mist, vapours or spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear gloves, eye and face protection and protective clothing.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

HYDROGEN PEROXIDE 50% STANDARD GRADE
Product ID: MI081300

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Specific treatment (see First Aid on SDS or on this label).
Wash contaminated clothing before reuse.
In case of fire: Use appropriate extinguishing media - See Section 5 on SDS.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store in a secure manner.

Disposal: Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>% by Wt.</u>
Hydrogen Peroxide	7722-84-1	~ 50 %

4. FIRST-AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Wash with soap and water. Discard shoes if contaminated.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY. Keep warm and quiet.

Ingestion: If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Rinse mouth with fresh water. Give 1-2 glasses of water to drink. Keep warm and quiet.

Note to Physicians:

Exposure to material may cause delayed lung injury resulting in pulmonary edema and pneumonitis. Exposed individuals should be monitored for 72 hours after exposure for the onset of delayed respiratory symptoms. Hydrogen peroxide is a strong oxidant. Direct contact with the eye is likely to cause corneal damage, especially if not washed immediately. Careful ophthalmologic evaluation is recommended and the possibility of local corticosteroid therapy should be considered. Because of the likelihood of corrosive effects on the gastrointestinal tract after ingestion and the unlikelihood of systemic effects, attempts at evacuating the stomach via emesis induction or gastric lavage should be avoided. There is a remote possibility, however, that a nasogastric or orogastric tube may be required for the reduction of severe distension due to gas formation.

Most Important Symptoms/Effects:

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: corneal damage. permanent eye damage. blindness. Effects may be delayed.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin.

Skin Absorption: Practically non-toxic if absorbed through the skin.

Inhalation: CORROSIVE-Causes severe irritation and burns. High concentrations of vapor or mist may cause severe irritation of the: nose. throat. respiratory tract. Excessive exposure may cause: pulmonary edema. death. Toxic by inhalation. Effects may be delayed.

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

Ingestion: CORROSIVE-Causes severe irritation and burns. Moderately toxic by ingestion. May cause: gastrointestinal irritation. nausea. vomiting. diarrhea. ulcerations. burns. edema (fluid in lungs). death. The rapid releasing of oxygen can cause distension and bleeding of the mucosa in the stomach and lead to severe damage of the intestinal organs, especially in the event of greater intake of the product.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water only. Water spray. Water fog. Water (flood with water). DO NOT USE: Organic compounds.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Move containers from fire area if possible without hazard. Run-off from fire control may cause pollution.

Fire and Explosion Hazards: STRONG OXIDIZER. Forms explosive mixtures with combustible, organic, or other easily oxidizable materials. These mixtures are easily ignited by friction or heat. Heated material can form flammable vapors with air. Heated material can form explosive vapors with air. Decomposition will release oxygen, which will intensify a fire. The rate of decomposition may exceed the vent capacity of storage containers and cause an explosion. Solutions above 65% are especially hazardous as they do not contain enough water to remove the heat of decomposition by evaporation.

Hazardous Combustion Products: Oxygen.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. STRONG OXIDIZER. Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Shut off source of leak if safe to do so. Never return spilled product into its original container. Never put spilled material into another container for disposal. Avoid contact with organic or combustible material which may cause fire or violent decomposition. Dilute spill with large amounts of water to a concentration of 5% hydrogen peroxide; hold in a pond or diked area until peroxide is completely decomposed or dispose of according to all local, state and federal regulations. Hydrogen peroxide may be decomposed by adding sodium metabisulfite or sodium sulfite after diluting to 5%. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood, or other combustibles, can cause the material to ignite and result in a fire.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue (vapor, dust, or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other source of ignition. They may explode and cause injury or death. Avoid contamination. Never return unused product to container. Contamination may cause decomposition and generation of oxygen gas which could result in high pressure and possibly container rupture. Use non-sparking tools and equipment. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic.

Storage: CORROSIVE MATERIAL. STRONG OXIDIZER. Store in a cool, well ventilated area away from all sources of ignition and out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Avoid storage on wood floors or near wooden walls, etc.. Do not store on wooden pallets. Store in a vented container. Do not store near combustible materials. DO NOT contaminate water, food or feed by storage or disposal. Refer

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

to the National Fire Protection Association (NFPA) Code for the Storage of Organic Peroxide Formulations. See Section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Hydrogen Peroxide	1 ppm TWA; 1.4 mg/m ³ TWA

ACGIH Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
Hydrogen Peroxide	1 ppm TWA

Engineering Controls: General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Eye/Face Protection: Wear chemical safety goggles and a full face shield while handling this product.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Butyl rubber. Neoprene. Polyvinyl chloride. Nitrile. Inspect regularly for leaks. Thoroughly rinse the outside of gloves with water prior to removal. Avoid cotton, wool and leather clothing and shoes.

Respiratory Protection: Respiratory protection must be worn if ventilation does not eliminate symptoms or keep levels below recommended exposure limits. If exposure limits are exceeded, wear: NIOSH-Approved respirator. NIOSH-Approved self-contained breathing apparatus. DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (AKA dust mask), especially those containing oxidizable sorbants such as activated carbon. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station. Safety shower. Rubber apron. Rubber boots. Impervious clothing. Full body suit. NOTE: As the water content of hydrogen peroxide evaporates, cotton, rayon, and wool fibers are particularly subject to spontaneous combustion. Where there is significant risk of sudden splash or spray, it is advised that an apron or rubber suit be worn. Any contaminated clothing, including gloves, shoes, aprons, coveralls, etc., should be removed immediately and thoroughly flushed with water to eliminate any traces of hydrogen peroxide before cleaning and reuse. Residual hydrogen peroxide, if allowed to dry on material such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking. Food, beverages, and tobacco products should not be carried, stored or consumed where this material is in use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Color: Clear. Colorless.

Odor: No odor.

Odor Threshold: N.D.

pH: <= 3.00 (as is)

Freezing Point (deg. F): 1.4 - -68.8

Melting Point (deg. F): N.D.

Initial Boiling Point or Boiling Range: 237 °F

Flash Point: N.A.

Flash Point Method: N.A.

Evaporation Rate (nBuAc = 1): > 1

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

Flammability (solid, gas): N.D.
Lower Explosion Limit: N.A.
Upper Explosion Limit: N.A.
Vapor Pressure (mm Hg): 18.3 @ 30C
Vapor Density (air=1): N.D.
Specific Gravity or Relative Density: 1.19 @ 20 C
Solubility in Water: Complete
Partition Coefficient (n-octanol/water): N.D.
Autoignition Temperature: N.A.
Decomposition Temperature: N.D.
Viscosity: N.D.
% Volatile (wt%): 100
VOC (wt%): 0
VOC (lbs/gal): 0
Fire Point: N.D.

10. STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur under normal conditions. Contact with organic materials may cause fire and explosions. Contact with metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohols or terpenes) may produce self-accelerated thermal decomposition.

Conditions to Avoid: Avoid elevated temperatures. Avoid exposure to light. UV-rays. pH variations. Excessive heat or contamination could cause product to become unstable.

Incompatible Materials: Oxygen. Reducing agents. Alkalies. Combustible materials. Organics. Wood. Dust. Paper. Dirt. Decomposition catalysts. Metals. Metal salts. Metal ions. Copper or copper alloys. Galvanized iron. Metal Oxides. Acids. Salts.

Hazardous Decomposition Products: Oxygen. Material decomposes with the potential to produce a rupture of unvented closed containers. This material decomposes if contaminated, causing fire and possible explosions. Oxygen can be liberated at temperatures above ambient.

11. TOXICOLOGICAL INFORMATION

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Hydrogen Peroxide	Rat: 801 mg/kg	Rabbit: 2000 mg/kg	4H Rat: 2.0 g/m ³

Acute Toxicity Estimate (ATE):

Oral:	1,602 mg/kg
Dermal:	4,000 mg/kg
Inhalation Vapor:	4.0000 mg/L
Inhalation Dust/Mist:	4.0000 mg/L

Routes of Exposure: Eyes. Skin. Inhalation. Ingestion.

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: corneal damage. permanent eye damage. blindness. Effects may be delayed.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Contact with concentrated liquid for a short period of time may cause a temporary whitening or bleaching of the skin.

Skin Absorption: Practically non-toxic if absorbed through the skin.

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

Inhalation: CORROSIVE-Causes severe irritation and burns. High concentrations of vapor or mist may cause severe irritation of the: nose. throat. respiratory tract. Excessive exposure may cause: pulmonary edema. death. Toxic by inhalation. Effects may be delayed.

Ingestion: CORROSIVE-Causes severe irritation and burns. Moderately toxic by ingestion. May cause: gastrointestinal irritation. nausea. vomiting. diarrhea. ulcerations. burns. edema (fluid in lungs). death. The rapid releasing of oxygen can cause distension and bleeding of the mucosa in the stomach and lead to severe damage of the intestinal organs, especially in the event of greater intake of the product.

Medical Conditions Aggravated by Exposure to Product: Lung disorders. Eye disorders.

Other: None known.

Cancer Information:

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: Hydrogen Peroxide:

Slightly toxic. Fish 96 h LC50 between 10-37 mg/l

Moderately toxic. Daphnia magna (Water flea) EC50 = 7.7 mg/L

Moderately toxic. Daphnia pulex (Water flea) EC50 = 2.4 mg/L

Slightly toxic. Bacteria EC50 = 30 mg/L

Highly toxic. Algae EC50 = 0.85 mg/L

Chemical Fate Information: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hours and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

Material may have some potential to bioaccumulate but will likely degrade in most environments before accumulation can occur.

Will likely be in environment due to its water solubility but will likely degrade over time.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D001, D002

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Empty containers should be triple rinsed with water before discarding.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):

Identification Number: UN2014

Proper Shipping Name: HYDROGEN PEROXIDE, AQUEOUS SOLUTION

Hazard Class: 5.1 (8)

Packing Group: II

Label Required: OXIDIZER; CORROSIVE

15. REGULATORY INFORMATION

HYDROGEN PEROXIDE 50% STANDARD GRADE

Product ID: MI081300

TSCA Inventory Status: This product or all components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

SARA Title III Section 311/312 Category Hazards:

<u>Immediate (Acute)</u> Yes	<u>Delayed (Chronic)</u> No	<u>Fire Hazard</u> Yes	<u>Pressure Release</u>		<u>Reactive</u>		<u>Prop</u> <u>65</u>
			No	No	No	No	
Regulated Components:							
<u>Component</u>	<u>CAS</u> <u>Number</u>	<u>CERCLA</u> <u>RQ</u>	<u>SARA</u> <u>EHS</u>	<u>SARA</u> <u>313</u>	<u>U.S.</u> <u>HAP</u>	<u>WI</u> <u>HAP</u>	
Hydrogen Peroxide	7722-84-1	No	Yes	No	No	Yes	No

Note: * SARA RQ and TPQ are for Hydrogen Peroxide (Conc.> 52%).

16. OTHER INFORMATION**Hazard Rating System**

Health: 3
 Flammability: 0
 Reactivity: 1
 * = Chronic Health Hazard

NFPA Rating System

Health: 3
 Flammability: 0
 Reactivity: 1
 Special Hazard: OX

MSDS Abbreviations

N.A. = Not Applicable
 N.D. = Not Determined
 HAP = Hazardous Air Pollutant
 VOC = Volatile Organic Compound
 C = Ceiling Limit
 N.E./Not Estab. = Not Established

MSDS Prepared by: JB

Reason for Revision: New format. Changes made throughout the MSDS.

Revised: 01-31-2014

Replaces: 01-27-2014

The data in this Material Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.

SDS

Safety Data Sheet

Section I Chemical Product and Company Identification

Product Name	BAM
Synonyms	Not Assigned
CAS Number	7440-44-0
Active Ingredients	Pyrolized Cellulosic Material
Recommended Use	No data available
Restrictions on Use	No data available
Formulated by	ORIN Technologies
Address	405 Investment Court
Emergency Phone Number	8 AM-5PM CST: 608-838-6699 5 PM -8 AM CST, Weekends, Holidays: 262-82107024 CHEMTREC: 1-800-424-9300

Section II Hazard(s) Identification



Signal Word	Warning		
Hazard Statements	May Cause Skin Irritation May cause Eye Irritation May cause Respiratory Irritation		
Precautionary Statements - Prevention	Do not breathe dust, fume, gas Wash thoroughly after handling Use only outdoors or in a well-ventilated area Wear gloves, eye, and face protection and protective clothing		
Precautionary Statement – Response	IF ON SKIN – Wash with plenty of soap and water IF INHALED – Remove victim to fresh air and keep at rest position comfortable for breathing. IF IN EYES –Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing Call a POISON CENTER or doctor if you feel unwell If skin irritation occurs: Get medical advice or attention. If eye irritation persists: Get medical advice or attention. Take off contaminated clothing and wash before reuse.		
Storage	Store in a well ventilated place. Keep container tightly closed. Store in a secure manner.		
Exposure Limits ND	Synergistic Products ND	Sensitization/Irritancy: ND	Carcinogenicity/Teratogenicity/ Mutagenicity/Reproductive Effects: None Known

Section III Composition and Information on Ingredients

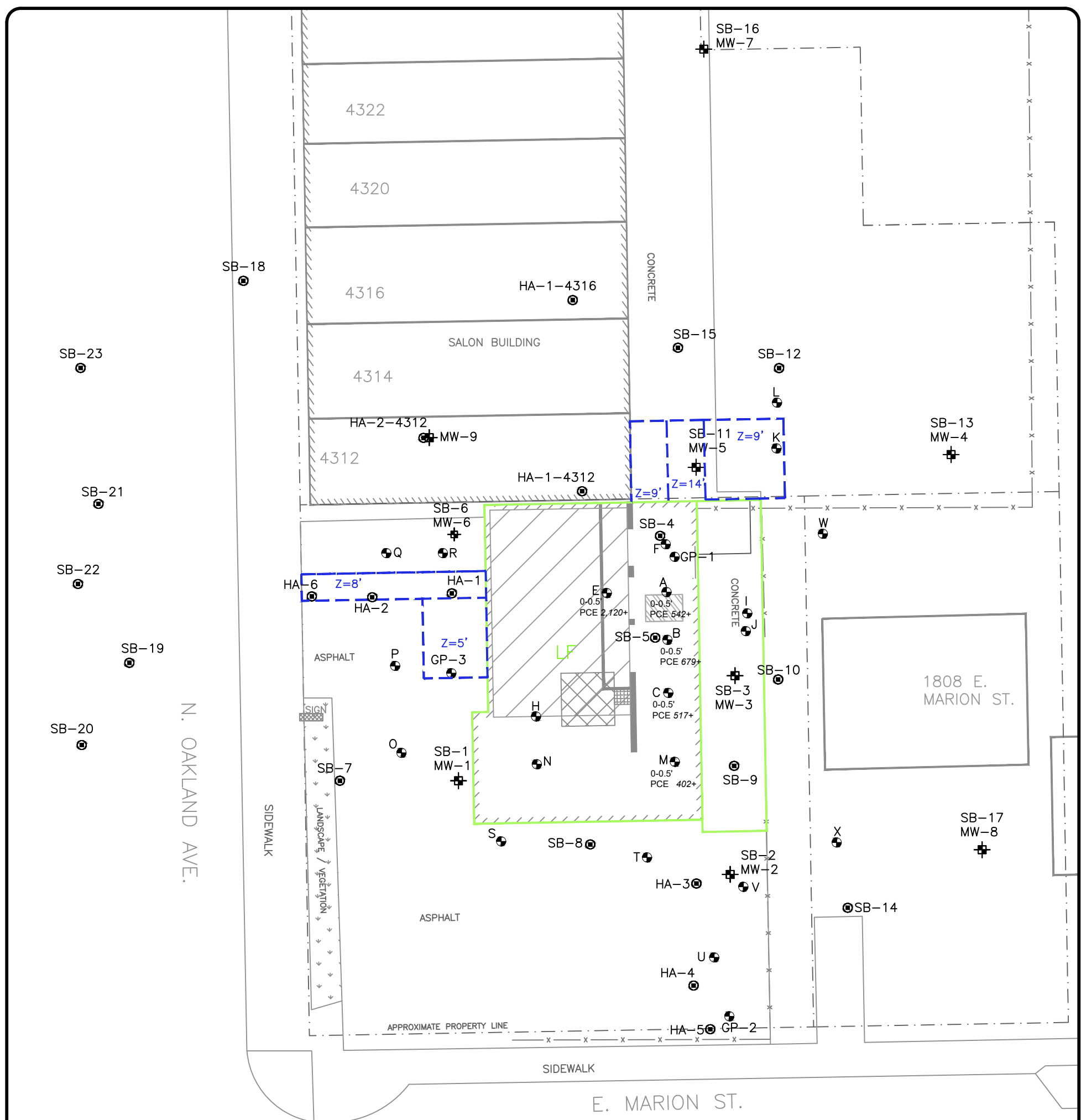
Chemical Name	CAS#	w/w%
Carbon (Wood Derived)	7440-44-00	85-95 wt% dry basis
Minerals (Wood Derived)	N/A	5-10 wt% dry basis
Water	7780-20-0	

Hazardous Ingredients: NONE

Section IV First Aid Measures

Skin	Wash with soap and water. Not expected to be harmful under normal conditions of use.
-------------	--

Eyes	Remove Contacts. Flush promptly with plenty of water for at least 15 minutes.		
Inhalation	Remove to fresh air.		
Ingestion	If suffering gastrointestinal discomfort, treat symptomatically.		
Section V Fire-Fighting Measures			
Flammability	This product should not come into contact with naked flames.		
Means of Extinction	Foam, Water Spray, CO ₂		
Flashpoint	NA	Auto-Ignition Temperature	ND
UEL	NA	TDG Flammability Class	ND
LEL	NA	Hazardous Combustion Products	NA
Section VI Handling and Storage			
Engineering Controls	Ventilate		
Leak or Spill Procedure	Sweep up into suitable container. Prevent entry into waterways.		
Handling Procedures and Equipment	Avoid direct and prolonged contact with skin		
Storage Requirements	Store in a cool, dry place		
Section VII Exposure Controls/Personal Protection			
Personal Protective Equipment	Respiratory:	No special protection is needed when using this product as directed.	
	Eyes:	Dust mask could be worn if prolonged use of this product in confined areas is expected.	
	Gloves:	No special protection is needed when using this product as directed.	
Section IIX Physical and Chemical Properties			
Physical State	Solid		
Odor and Appearance	Brown to black blend of natural organic and mineral substances. Slightly earthy odor.		
Odor Threshold	NA	Specific Gravity	1.5-2.1 for solid matrix, bulk density varies.
		Evaporation Rate	ND
Vapor Pressure	1@3586 C	Vapor Density	ND
		Density	ND
Boiling Point	NA	Freezing Point	NA
		pH	7-9.5
Section IX Stability and Reactivity			
Chemical Stability:	Stable	Incompatibility:	Strong acids, alkalis, and oxidizing agents.
Conditions of Reactivity:	NA	Hazardous Decomposition Products:	Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.
Section X Disposal Considerations			
Disposal	Sweep, vacuum or shovel material into labeled container. If at all possible, reuse product. Keep out of any bodies of water.		
Section XI Transport Information			
Shipping Information	Not regulated		
Section XII Other Information			
The information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof. The information and recommendations are supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ORIN Technologies, LLC. or any of its agents be responsible for damages of any nature whatsoever resulting from the use of or reliance upon the information and recommendations. No representations or warranties, either expressed or implied, of merchantability, fitness, or a particular purpose or of any other nature are made here under with respect to information or the product to which information refers.			
Preparation Information	Department	Technical	
	Phone Number	608-838-6699	
	Date	August 2015	



LEGEND

- ⊙ SOIL BORING (ENVIROFORENSICS)
- ⊕ MONITORING WELL / SOIL BORING (ENVIROFORENSICS)
- SOIL BORING (ALPHA TERRA ~ FEHR GRAHAM)
- x- FENCE LINE

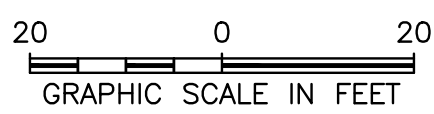
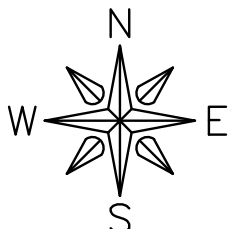
LF CONCRETE TO BE LANDFILLED UPON REMOVAL

Z=9' EXCAVATION LIMITS BEYOND BUILDING FOOTPRINT: CONCRETE/ASPHALT TO BE RECYCLED

- FORMER DRY CLEANING MACHINE
- BASEMENT
- BOILER ROOM
- SMOKE STACK

- 0-1' SAMPLE DEPTH
- PCE TETRACHLOROETHENE (ug/kg)
- TCE TRICHLOROETHENE (ug/kg)
- cis cis-1,2-DICHLOROETHENE (ug/kg)
- DCP 1,2-DICHLOROPROPANE (ug/kg)
- CF CHLOROFORM (ug/kg)
- ND NO DETECT
- ITALICS+* EXCEEDS GROUNDWATER PATHWAY RCL
- BOLD++** EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL
- ITALICS/BOLD++* EXCEEDS BOTH GW & DIRECT CONTACT RCL

NOTE: ALL SAMPLES ARE PULVERIZED CONCRETE AND ALL PASSED TCLP CRITERIA (NON-HAZARDOUS)



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL

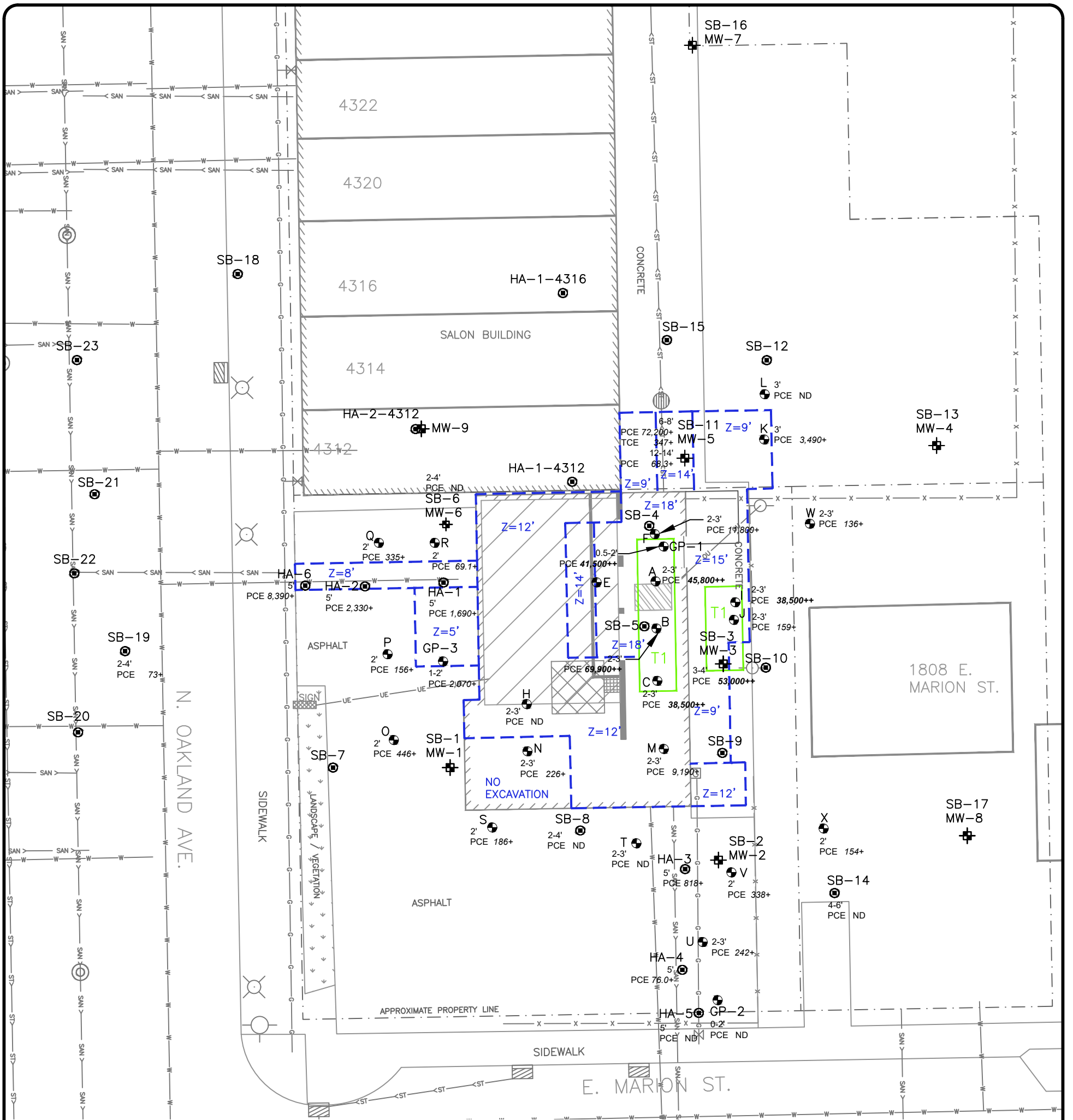
SHOREWOOD QUEENSWAY CLEANERS
4300 N. OAKLAND AVE.
SHOREWOOD, WI 53211

DRWN:MKH DATE:03/01/17 APPD:KE

TITLE:
PROPOSED CONCRETE DISPOSAL & CHEMISTRY

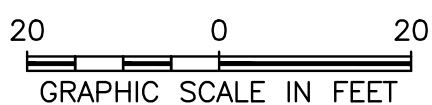
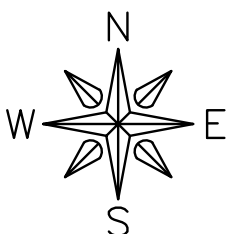
BRRTS: 02-41-552089
JOB NO.:17-1124
PLOT DATE: 10/23/18

FIGURE:
4A



LEGEND

- SOIL BORING (ENVIROFORENSICS)
- MONITORING WELL / SOIL BORING (ENVIROFORENSICS)
- SOIL BORING (ALPHA TERRA ~ FEHR GRAHAM)
- x — FENCE LINE
- T1 0.5-5' PROPOSED TREATED SOIL EXCAVATION LIMIT
- Z=9' PROPOSED EXCAVATION BOUNDARY & DEPTH
- FORMER DRY CLEANING MACHINE
- BASEMENT
- BOILER ROOM
- SMOKE STACK
- 0-1' SAMPLE DEPTH
- PCE TETRACHLOROETHENE (ug/kg)
- ND NO DETECT
- ITALICS+* EXCEEDS GROUNDWATER PATHWAY RCL
- BOLD++** EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL
- ITALICS/BOLD++* EXCEEDS BOTH GW & DIRECT CONTACT RCL



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL

SHOREWOOD QUEENSWAY CLEANERS
4300 N. OAKLAND AVE.
SHOREWOOD, WI 53211

DRWN:MKH DATE:03/01/17 APPD:KE

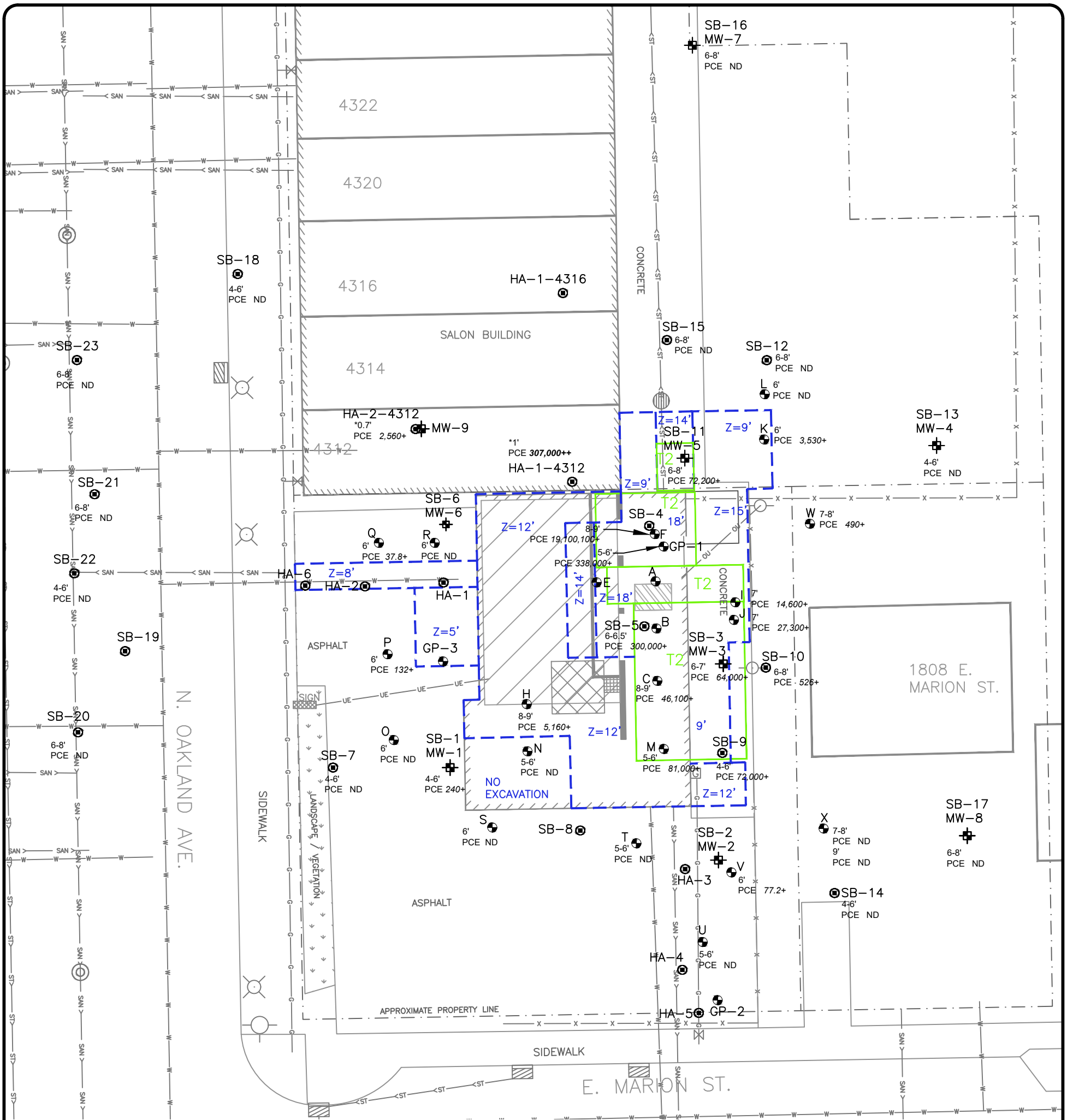
TITLE: PROPOSED EXCAVATION & TREATED SOIL BOUNDARY w/ SOIL CHEMISTRY 0.5-5'

BRRTS: 02-41-552089

JOB NO.:17-1124

PLOT DATE: 2/7/19

FIGURE: 4B

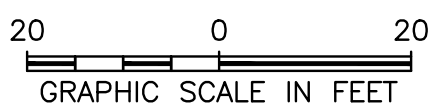
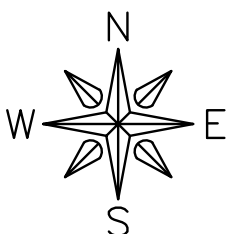


LEGEND

- SOIL BORING (ENVIROFORENSICS)
- MONITORING WELL / SOIL BORING (ENVIROFORENSICS)
- SOIL BORING (ALPHA TERRA ~ FEHR GRAHAM)
- FENCE LINE
- 5-9' PROPOSED TREATED SOIL EXCAVATION LIMIT
- PROPOSED EXCAVATION BOUNDARY & DEPTH
- FORMER DRY CLEANING MACHINE
- BASEMENT
- BOILER ROOM
- SMOKE STACK

- 0-1' SAMPLE DEPTH
- PCE TETRACHLOROETHENE (ug/kg)
- ND NO DETECT

- ITALICS+* EXCEEDS GROUNDWATER PATHWAY RCL
- BOLD++** EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL
- ITALICS/BOLD++* EXCEEDS BOTH GW & DIRECT CONTACT RCL
- *1.5' BASEMENT SAMPLES, DEPTH BELOW GRADE IS 8' PLUS SHOWN DEPTH



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL

SHOREWOOD QUEENSWAY CLEANERS
4300 N. OAKLAND AVE.
SHOREWOOD, WI 53211

DRWN:MKH DATE:03/01/17 APPD:KE

TITLE: PROPOSED EXCAVATION & TREATED SOIL BOUNDARY w/ SOIL CHEMISTRY 5-9'

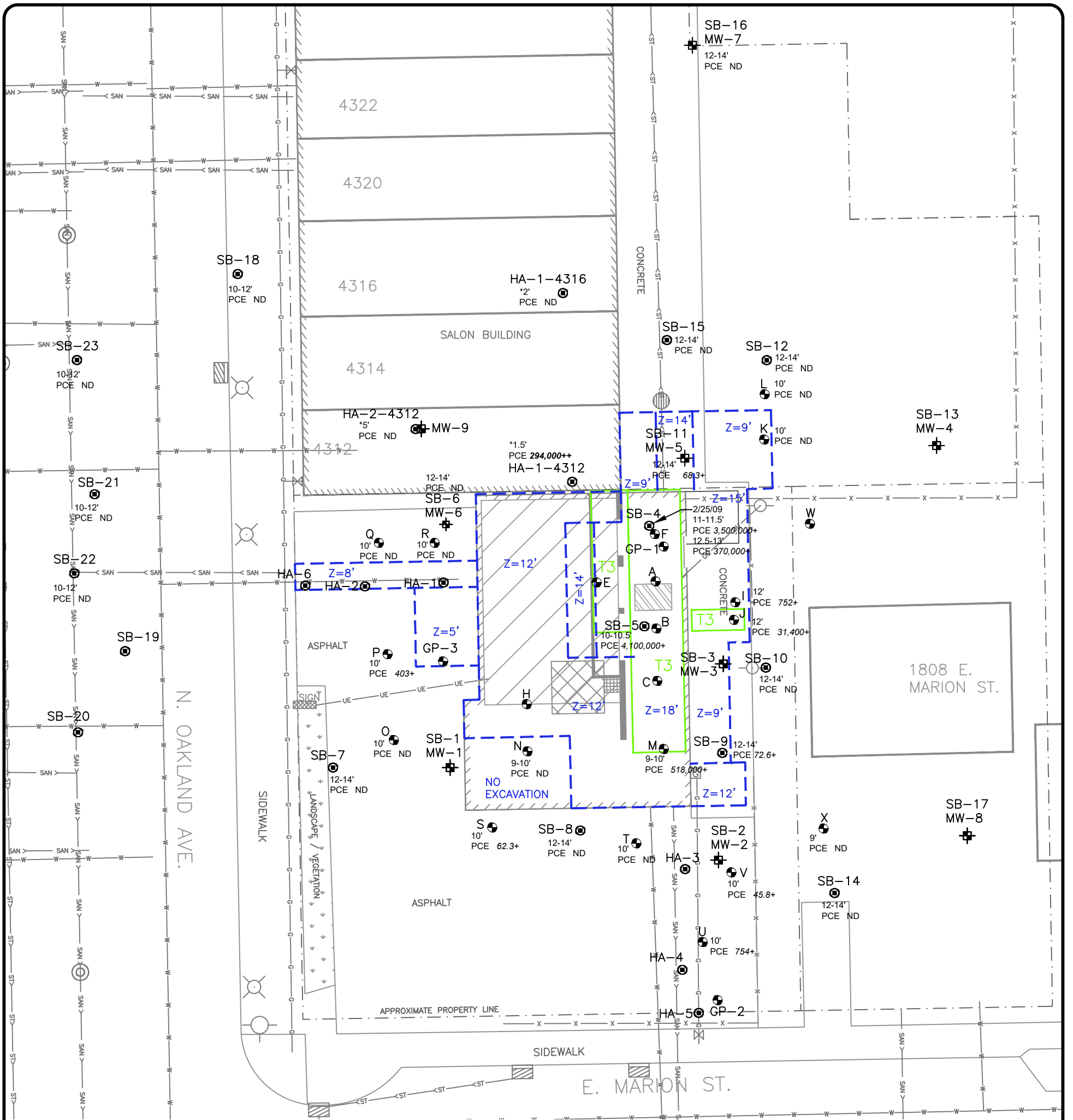
BRRTS: 02-41-552089

JOB NO.:17-1124

PLOT DATE: 2/7/19

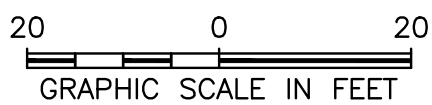
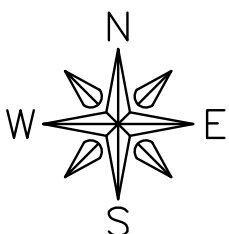
FIGURE:

4C



LEGEND

- SOIL BORING (ENVIROFORENSICS)
- MONITORING WELL / SOIL BORING (ENVIROFORENSICS)
- SOIL BORING (ALPHA TERRA ~ FEHR GRAHAM)
- FENCE LINE
- 9-14' PROPOSED TREATED SOIL EXCAVATION LIMIT
- PROPOSED EXCAVATION BOUNDARY & DEPTH
- FORMER DRY CLEANING MACHINE
- BASEMENT
- BOILER ROOM
- SMOKE STACK
- 0-1' SAMPLE DEPTH
- PCE TETRACHLOROETHENE (ug/kg)
- ND NO DETECT
- ITALICS+* EXCEEDS GROUNDWATER PATHWAY RCL
- BOLD++** EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL
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- *1.5' BASEMENT SAMPLES, DEPTH BELOW GRADE IS 8' PLUS SHOWN DEPTH



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DRWN:MKH DATE:03/01/17 APPD:KE

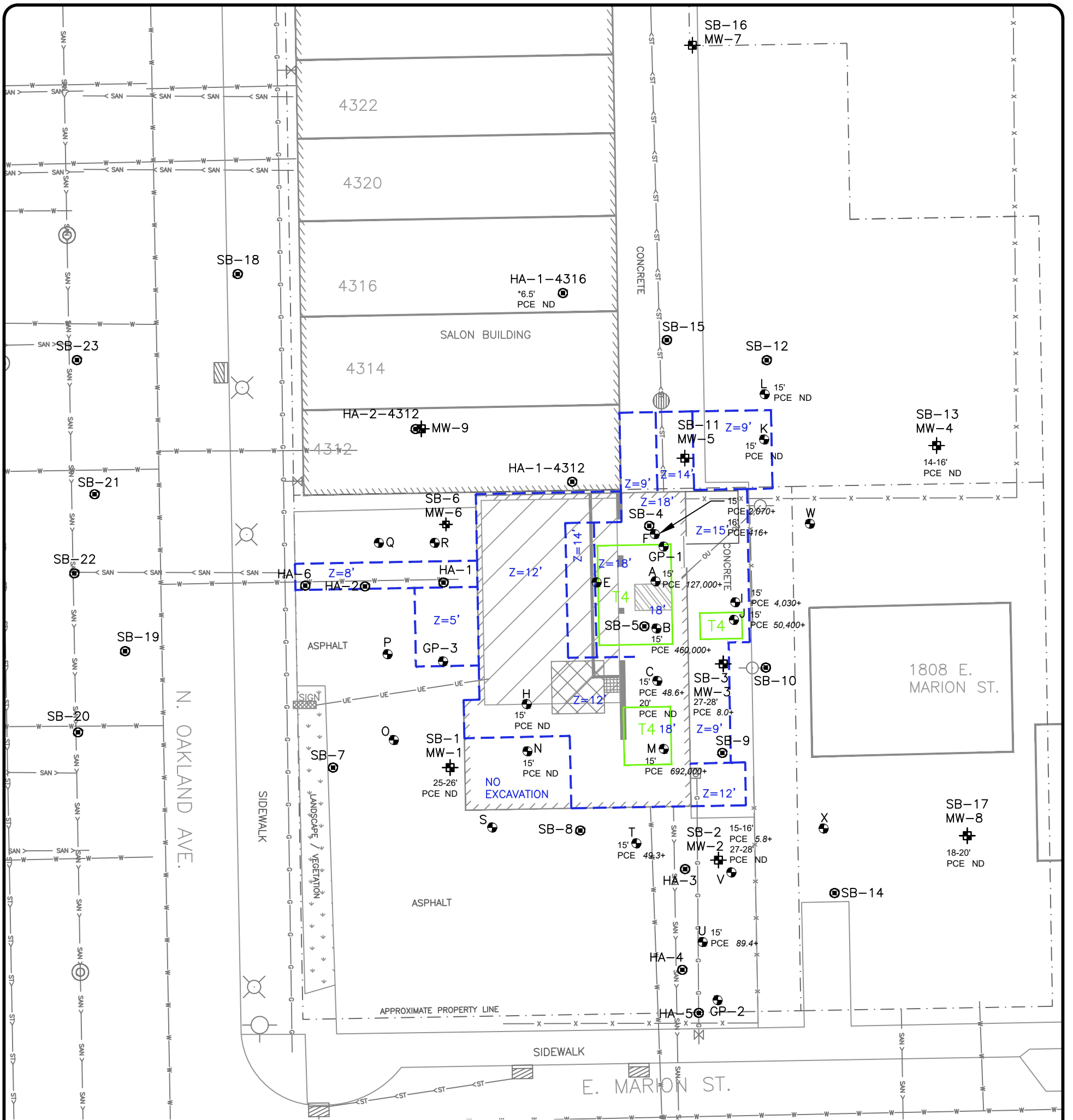
TITLE: PROPOSED EXCAVATION & TREATED SOIL BOUNDARY w/ SOIL CHEMISTRY 9-14'

BRRTS: 02-41-552089

JOB NO.: 17-1124

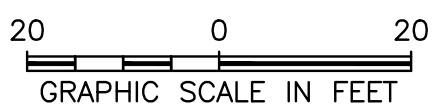
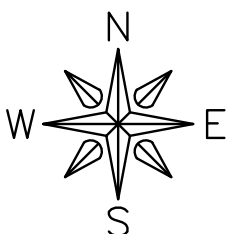
PLOT DATE: 2/7/19

FIGURE: 4D



LEGEND

- ⊙ SOIL BORING (ENVIROFORENSICS)
- ⊕ MONITORING WELL / SOIL BORING (ENVIROFORENSICS)
- ⊙ SOIL BORING (ALPHA TERRA ~ FEHR GRAHAM)
- x- FENCE LINE
- T4 14-18' PROPOSED TREATED SOIL EXCAVATION LIMIT
- Z=9' PROPOSED EXCAVATION BOUNDARY & DEPTH
- FORMER DRY CLEANING MACHINE
- BASEMENT
- BOILER ROOM
- SMOKE STACK
- 0-1' SAMPLE DEPTH
- PCE TETRACHLOROETHENE (ug/kg)
- ND NO DETECT
- ITALICS+* EXCEEDS GROUNDWATER PATHWAY RCL
- BOLD++** EXCEEDS NON-INDUSTRIAL DIRECT CONTACT (0-4') RCL
- ITALICS/BOLD++* EXCEEDS BOTH GW & DIRECT CONTACT RCL
- *1.5' BASEMENT SAMPLES, DEPTH BELOW GRADE IS 8' PLUS SHOWN DEPTH



FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL

SHOREWOOD QUEENSWAY CLEANERS
4300 N. OAKLAND AVE.
SHOREWOOD, WI 53211

DRWN: MKH DATE: 03/01/17 APPD: KE

TITLE: PROPOSED EXCAVATION & TREATED SOIL BOUNDARY w/ SOIL CHEMISTRY
14-18'

BRRTS: 02-41-552089

JOB NO.: 17-1124

PLOT DATE: 2/7/19

FIGURE:
4E

January 29, 2018

Ken Ebbott
Fehr Graham Engineering and Environmental
1237 Pilgrim Rd
Plymouth, WI 53073

RE: Project: 17-1124 SHOREWOOD CLEANERS
Pace Project No.: 40163882

Dear Ken Ebbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Megan Hansen, Fehr Graham Engineering and
Environmental



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40163882001	MW-1	Water	01/23/18 12:50	01/24/18 11:50
40163882002	MW-2	Water	01/23/18 12:40	01/24/18 11:50
40163882003	MW-3	Water	01/23/18 13:00	01/24/18 11:50
40163882004	MW-4	Water	01/23/18 13:30	01/24/18 11:50
40163882005	MW-5	Water	01/23/18 13:10	01/24/18 11:50
40163882006	MW-6	Water	01/23/18 13:40	01/24/18 11:50
40163882007	MW-7	Water	01/23/18 13:20	01/24/18 11:50
40163882008	MW-8	Water	01/23/18 12:30	01/24/18 11:50
40163882009	MW-9	Water	01/23/18 14:20	01/24/18 11:50
40163882010	TB	Water	01/23/18 00:00	01/24/18 11:50

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SAMPLE ANALYTE COUNT

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40163882001	MW-1	EPA 8260	LAP	64	PASI-G
40163882002	MW-2	EPA 8260	LAP	64	PASI-G
40163882003	MW-3	EPA 8260	LAP	64	PASI-G
40163882004	MW-4	EPA 8260	LAP	64	PASI-G
40163882005	MW-5	EPA 8260	LAP	64	PASI-G
40163882006	MW-6	EPA 8260	LAP	64	PASI-G
40163882007	MW-7	EPA 8260	LAP	64	PASI-G
40163882008	MW-8	EPA 8260	LAP	64	PASI-G
40163882009	MW-9	EPA 8260	LAP	64	PASI-G
40163882010	TB	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40163882003	MW-3					
EPA 8260	Tetrachloroethene	82.3	ug/L	1.0	01/25/18 16:35	
40163882004	MW-4					
EPA 8260	Methylene Chloride	0.30J	ug/L	1.0	01/25/18 16:57	
40163882005	MW-5					
EPA 8260	cis-1,2-Dichloroethene	73.8	ug/L	10.0	01/26/18 16:49	
EPA 8260	trans-1,2-Dichloroethene	4.1J	ug/L	10.0	01/26/18 16:49	
EPA 8260	Tetrachloroethene	1110	ug/L	10.0	01/26/18 16:49	
EPA 8260	Trichloroethene	51.9	ug/L	10.0	01/26/18 16:49	
40163882008	MW-8					
EPA 8260	Benzene	1.1	ug/L	1.0	01/25/18 18:27	
EPA 8260	Ethylbenzene	1.5	ug/L	1.0	01/25/18 18:27	
EPA 8260	Isopropylbenzene (Cumene)	0.36J	ug/L	1.0	01/25/18 18:27	
EPA 8260	n-Propylbenzene	0.51J	ug/L	1.0	01/25/18 18:27	
EPA 8260	1,2,4-Trimethylbenzene	0.94J	ug/L	1.0	01/25/18 18:27	
40163882009	MW-9					
EPA 8260	cis-1,2-Dichloroethene	41.3	ug/L	1.0	01/25/18 18:50	
EPA 8260	trans-1,2-Dichloroethene	6.3	ug/L	1.0	01/25/18 18:50	
EPA 8260	Tetrachloroethene	12.6	ug/L	1.0	01/25/18 18:50	
EPA 8260	Trichloroethene	2.6	ug/L	1.0	01/25/18 18:50	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-1 **Lab ID: 40163882001** Collected: 01/23/18 12:50 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 15:50	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 15:50	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 15:50	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 15:50	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 15:50	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 15:50	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 15:50	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 15:50	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 15:50	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 15:50	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 15:50	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 15:50	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 15:50	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 15:50	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 15:50	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 15:50	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 15:50	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 15:50	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 15:50	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 15:50	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 15:50	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 15:50	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 15:50	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 15:50	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 15:50	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 15:50	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 15:50	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-1 **Lab ID: 40163882001** Collected: 01/23/18 12:50 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 15:50	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 15:50	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 15:50	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 15:50	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 15:50	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 15:50	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 15:50	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 15:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		01/25/18 15:50	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		01/25/18 15:50	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		01/25/18 15:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-2 Lab ID: 40163882002 Collected: 01/23/18 12:40 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:12	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 16:12	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 16:12	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:12	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 16:12	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 16:12	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 16:12	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 16:12	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 16:12	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 16:12	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 16:12	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 16:12	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 16:12	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 16:12	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 16:12	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:12	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:12	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 16:12	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 16:12	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 16:12	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:12	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:12	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 16:12	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 16:12	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 16:12	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 16:12	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:12	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-2 **Lab ID: 40163882002** Collected: 01/23/18 12:40 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 16:12	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:12	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:12	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 16:12	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 16:12	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:12	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 16:12	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 16:12	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		01/25/18 16:12	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		01/25/18 16:12	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		01/25/18 16:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-3 **Lab ID: 40163882003** Collected: 01/23/18 13:00 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:35	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 16:35	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 16:35	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:35	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 16:35	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 16:35	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 16:35	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 16:35	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 16:35	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 16:35	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 16:35	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 16:35	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 16:35	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 16:35	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 16:35	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:35	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:35	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 16:35	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 16:35	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 16:35	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:35	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:35	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 16:35	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 16:35	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 16:35	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 16:35	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:35	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-3 **Lab ID: 40163882003** Collected: 01/23/18 13:00 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 16:35	79-34-5	
Tetrachloroethene	82.3	ug/L	1.0	0.50	1		01/25/18 16:35	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:35	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:35	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 16:35	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 16:35	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:35	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 16:35	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 16:35	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		01/25/18 16:35	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		01/25/18 16:35	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		01/25/18 16:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-4 **Lab ID: 40163882004** Collected: 01/23/18 13:30 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:57	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 16:57	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 16:57	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:57	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 16:57	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 16:57	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 16:57	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 16:57	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 16:57	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 16:57	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 16:57	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 16:57	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 16:57	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 16:57	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 16:57	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:57	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 16:57	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 16:57	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 16:57	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 16:57	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 16:57	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:57	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 16:57	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	99-87-6	
Methylene Chloride	0.30J	ug/L	1.0	0.23	1		01/25/18 16:57	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 16:57	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 16:57	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:57	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-4 **Lab ID: 40163882004** Collected: 01/23/18 13:30 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 16:57	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 16:57	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 16:57	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 16:57	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 16:57	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 16:57	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 16:57	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 16:57	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 16:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		01/25/18 16:57	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		01/25/18 16:57	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		01/25/18 16:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-5 Lab ID: 40163882005 Collected: 01/23/18 13:10 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	71-43-2	
Bromobenzene	<2.3	ug/L	10.0	2.3	10		01/26/18 16:49	108-86-1	
Bromochloromethane	<3.4	ug/L	10.0	3.4	10		01/26/18 16:49	74-97-5	
Bromodichloromethane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	75-27-4	
Bromoform	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	75-25-2	L1
Bromomethane	<24.3	ug/L	50.0	24.3	10		01/26/18 16:49	74-83-9	
n-Butylbenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	104-51-8	
sec-Butylbenzene	<21.9	ug/L	50.0	21.9	10		01/26/18 16:49	135-98-8	
tert-Butylbenzene	<1.8	ug/L	10.0	1.8	10		01/26/18 16:49	98-06-6	
Carbon tetrachloride	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	56-23-5	
Chlorobenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	108-90-7	
Chloroethane	<3.7	ug/L	10.0	3.7	10		01/26/18 16:49	75-00-3	
Chloroform	<25.0	ug/L	50.0	25.0	10		01/26/18 16:49	67-66-3	
Chloromethane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	74-87-3	
2-Chlorotoluene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	95-49-8	
4-Chlorotoluene	<2.1	ug/L	10.0	2.1	10		01/26/18 16:49	106-43-4	
1,2-Dibromo-3-chloropropane	<21.6	ug/L	50.0	21.6	10		01/26/18 16:49	96-12-8	
Dibromochloromethane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	124-48-1	
1,2-Dibromoethane (EDB)	<1.8	ug/L	10.0	1.8	10		01/26/18 16:49	106-93-4	
Dibromomethane	<4.3	ug/L	10.0	4.3	10		01/26/18 16:49	74-95-3	
1,2-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	95-50-1	
1,3-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	541-73-1	
1,4-Dichlorobenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	106-46-7	
Dichlorodifluoromethane	<2.2	ug/L	10.0	2.2	10		01/26/18 16:49	75-71-8	
1,1-Dichloroethane	<2.4	ug/L	10.0	2.4	10		01/26/18 16:49	75-34-3	
1,2-Dichloroethane	<1.7	ug/L	10.0	1.7	10		01/26/18 16:49	107-06-2	
1,1-Dichloroethene	<4.1	ug/L	10.0	4.1	10		01/26/18 16:49	75-35-4	
cis-1,2-Dichloroethene	73.8	ug/L	10.0	2.6	10		01/26/18 16:49	156-59-2	
trans-1,2-Dichloroethene	4.1J	ug/L	10.0	2.6	10		01/26/18 16:49	156-60-5	
1,2-Dichloropropane	<2.3	ug/L	10.0	2.3	10		01/26/18 16:49	78-87-5	
1,3-Dichloropropane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	142-28-9	
2,2-Dichloropropane	<4.8	ug/L	10.0	4.8	10		01/26/18 16:49	594-20-7	
1,1-Dichloropropene	<4.4	ug/L	10.0	4.4	10		01/26/18 16:49	563-58-6	
cis-1,3-Dichloropropene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	10061-01-5	
trans-1,3-Dichloropropene	<2.3	ug/L	10.0	2.3	10		01/26/18 16:49	10061-02-6	
Diisopropyl ether	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	108-20-3	
Ethylbenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	100-41-4	
Hexachloro-1,3-butadiene	<21.1	ug/L	50.0	21.1	10		01/26/18 16:49	87-68-3	
Isopropylbenzene (Cumene)	<1.4	ug/L	10.0	1.4	10		01/26/18 16:49	98-82-8	
p-Isopropyltoluene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	99-87-6	
Methylene Chloride	<2.3	ug/L	10.0	2.3	10		01/26/18 16:49	75-09-2	
Methyl-tert-butyl ether	<1.7	ug/L	10.0	1.7	10		01/26/18 16:49	1634-04-4	
Naphthalene	<25.0	ug/L	50.0	25.0	10		01/26/18 16:49	91-20-3	
n-Propylbenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	103-65-1	
Styrene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	100-42-5	
1,1,1,2-Tetrachloroethane	<1.8	ug/L	10.0	1.8	10		01/26/18 16:49	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-5 **Lab ID: 40163882005** Collected: 01/23/18 13:10 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.5	ug/L	10.0	2.5	10		01/26/18 16:49	79-34-5	
Tetrachloroethene	1110	ug/L	10.0	5.0	10		01/26/18 16:49	127-18-4	
Toluene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	108-88-3	
1,2,3-Trichlorobenzene	<21.3	ug/L	50.0	21.3	10		01/26/18 16:49	87-61-6	
1,2,4-Trichlorobenzene	<22.1	ug/L	50.0	22.1	10		01/26/18 16:49	120-82-1	
1,1,1-Trichloroethane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	71-55-6	
1,1,2-Trichloroethane	<2.0	ug/L	10.0	2.0	10		01/26/18 16:49	79-00-5	
Trichloroethene	51.9	ug/L	10.0	3.3	10		01/26/18 16:49	79-01-6	
Trichlorofluoromethane	<1.8	ug/L	10.0	1.8	10		01/26/18 16:49	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	96-18-4	
1,2,4-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	95-63-6	
1,3,5-Trimethylbenzene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	108-67-8	
Vinyl chloride	<1.8	ug/L	10.0	1.8	10		01/26/18 16:49	75-01-4	
m&p-Xylene	<10.0	ug/L	20.0	10.0	10		01/26/18 16:49	179601-23-1	
o-Xylene	<5.0	ug/L	10.0	5.0	10		01/26/18 16:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	78	%	61-130		10		01/26/18 16:49	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		10		01/26/18 16:49	1868-53-7	
Toluene-d8 (S)	85	%	70-130		10		01/26/18 16:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-6 **Lab ID: 40163882006** Collected: 01/23/18 13:40 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/26/18 16:04	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/26/18 16:04	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	75-25-2	L1
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/26/18 16:04	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/26/18 16:04	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/26/18 16:04	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/26/18 16:04	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/26/18 16:04	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/26/18 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/26/18 16:04	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/26/18 16:04	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/26/18 16:04	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/26/18 16:04	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/26/18 16:04	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/26/18 16:04	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/26/18 16:04	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/26/18 16:04	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/26/18 16:04	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/26/18 16:04	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/26/18 16:04	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/26/18 16:04	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/26/18 16:04	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/26/18 16:04	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/26/18 16:04	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/26/18 16:04	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/26/18 16:04	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/26/18 16:04	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/26/18 16:04	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-6 **Lab ID: 40163882006** Collected: 01/23/18 13:40 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/26/18 16:04	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/26/18 16:04	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/26/18 16:04	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/26/18 16:04	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/26/18 16:04	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/26/18 16:04	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/26/18 16:04	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/26/18 16:04	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	81	%	61-130		1		01/26/18 16:04	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		01/26/18 16:04	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/26/18 16:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-7 **Lab ID: 40163882007** Collected: 01/23/18 13:20 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/26/18 16:26	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/26/18 16:26	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	75-25-2	L1
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/26/18 16:26	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/26/18 16:26	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/26/18 16:26	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/26/18 16:26	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/26/18 16:26	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/26/18 16:26	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/26/18 16:26	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/26/18 16:26	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/26/18 16:26	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/26/18 16:26	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/26/18 16:26	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/26/18 16:26	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/26/18 16:26	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/26/18 16:26	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/26/18 16:26	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/26/18 16:26	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/26/18 16:26	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/26/18 16:26	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/26/18 16:26	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/26/18 16:26	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/26/18 16:26	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/26/18 16:26	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/26/18 16:26	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/26/18 16:26	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/26/18 16:26	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-7 **Lab ID: 40163882007** Collected: 01/23/18 13:20 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/26/18 16:26	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/26/18 16:26	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/26/18 16:26	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/26/18 16:26	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/26/18 16:26	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/26/18 16:26	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/26/18 16:26	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/26/18 16:26	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/26/18 16:26	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		01/26/18 16:26	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		01/26/18 16:26	1868-53-7	
Toluene-d8 (S)	88	%	70-130		1		01/26/18 16:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-8 **Lab ID: 40163882008** Collected: 01/23/18 12:30 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	1.1	ug/L	1.0	0.50	1		01/25/18 18:27	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 18:27	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 18:27	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 18:27	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 18:27	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 18:27	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 18:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 18:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 18:27	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 18:27	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 18:27	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 18:27	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 18:27	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 18:27	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 18:27	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 18:27	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 18:27	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 18:27	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 18:27	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 18:27	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 18:27	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 18:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	108-20-3	
Ethylbenzene	1.5	ug/L	1.0	0.50	1		01/25/18 18:27	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 18:27	87-68-3	
Isopropylbenzene (Cumene)	0.36J	ug/L	1.0	0.14	1		01/25/18 18:27	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 18:27	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 18:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 18:27	91-20-3	
n-Propylbenzene	0.51J	ug/L	1.0	0.50	1		01/25/18 18:27	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 18:27	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-8 **Lab ID: 40163882008** Collected: 01/23/18 12:30 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 18:27	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 18:27	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 18:27	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 18:27	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 18:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 18:27	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	96-18-4	
1,2,4-Trimethylbenzene	0.94J	ug/L	1.0	0.50	1		01/25/18 18:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 18:27	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 18:27	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		01/25/18 18:27	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		01/25/18 18:27	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		01/25/18 18:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-9 **Lab ID: 40163882009** Collected: 01/23/18 14:20 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 18:50	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 18:50	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 18:50	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 18:50	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 18:50	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 18:50	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 18:50	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 18:50	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 18:50	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 18:50	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 18:50	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 18:50	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 18:50	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 18:50	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 18:50	75-35-4	
cis-1,2-Dichloroethene	41.3	ug/L	1.0	0.26	1		01/25/18 18:50	156-59-2	
trans-1,2-Dichloroethene	6.3	ug/L	1.0	0.26	1		01/25/18 18:50	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 18:50	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 18:50	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 18:50	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 18:50	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 18:50	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 18:50	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 18:50	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 18:50	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 18:50	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 18:50	630-20-6	

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: MW-9 **Lab ID: 40163882009** Collected: 01/23/18 14:20 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 18:50	79-34-5	
Tetrachloroethene	12.6	ug/L	1.0	0.50	1		01/25/18 18:50	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 18:50	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 18:50	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 18:50	79-00-5	
Trichloroethene	2.6	ug/L	1.0	0.33	1		01/25/18 18:50	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 18:50	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 18:50	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 18:50	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 18:50	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	78	%	61-130		1		01/25/18 18:50	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		01/25/18 18:50	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		01/25/18 18:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: TB **Lab ID: 40163882010** Collected: 01/23/18 00:00 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		01/25/18 15:27	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		01/25/18 15:27	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		01/25/18 15:27	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 15:27	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		01/25/18 15:27	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		01/25/18 15:27	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		01/25/18 15:27	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		01/25/18 15:27	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		01/25/18 15:27	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		01/25/18 15:27	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		01/25/18 15:27	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	106-46-7	
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		01/25/18 15:27	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		01/25/18 15:27	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		01/25/18 15:27	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		01/25/18 15:27	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 15:27	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		01/25/18 15:27	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		01/25/18 15:27	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		01/25/18 15:27	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		01/25/18 15:27	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		01/25/18 15:27	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		01/25/18 15:27	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		01/25/18 15:27	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		01/25/18 15:27	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		01/25/18 15:27	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		01/25/18 15:27	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		01/25/18 15:27	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Sample: TB **Lab ID: 40163882010** Collected: 01/23/18 00:00 Received: 01/24/18 11:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		01/25/18 15:27	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		01/25/18 15:27	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		01/25/18 15:27	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		01/25/18 15:27	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		01/25/18 15:27	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		01/25/18 15:27	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		01/25/18 15:27	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		01/25/18 15:27	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		01/25/18 15:27	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		01/25/18 15:27	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		01/25/18 15:27	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		01/25/18 15:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

QC Batch: 279773 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40163882001, 40163882002, 40163882003, 40163882004, 40163882008, 40163882009, 40163882010

METHOD BLANK: 1641954 Matrix: Water
Associated Lab Samples: 40163882001, 40163882002, 40163882003, 40163882004, 40163882008, 40163882009, 40163882010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/25/18 09:50	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/25/18 09:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/25/18 09:50	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/25/18 09:50	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/25/18 09:50	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/25/18 09:50	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/25/18 09:50	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/25/18 09:50	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/25/18 09:50	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/25/18 09:50	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/25/18 09:50	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/25/18 09:50	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/25/18 09:50	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/25/18 09:50	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/25/18 09:50	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/25/18 09:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/25/18 09:50	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/25/18 09:50	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/25/18 09:50	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/25/18 09:50	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/25/18 09:50	
2-Chlorotoluene	ug/L	<0.50	1.0	01/25/18 09:50	
4-Chlorotoluene	ug/L	<0.21	1.0	01/25/18 09:50	
Benzene	ug/L	<0.50	1.0	01/25/18 09:50	
Bromobenzene	ug/L	<0.23	1.0	01/25/18 09:50	
Bromochloromethane	ug/L	<0.34	1.0	01/25/18 09:50	
Bromodichloromethane	ug/L	<0.50	1.0	01/25/18 09:50	
Bromoform	ug/L	<0.50	1.0	01/25/18 09:50	
Bromomethane	ug/L	<2.4	5.0	01/25/18 09:50	
Carbon tetrachloride	ug/L	<0.50	1.0	01/25/18 09:50	
Chlorobenzene	ug/L	<0.50	1.0	01/25/18 09:50	
Chloroethane	ug/L	<0.37	1.0	01/25/18 09:50	
Chloroform	ug/L	<2.5	5.0	01/25/18 09:50	
Chloromethane	ug/L	<0.50	1.0	01/25/18 09:50	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/25/18 09:50	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/25/18 09:50	
Dibromochloromethane	ug/L	<0.50	1.0	01/25/18 09:50	
Dibromomethane	ug/L	<0.43	1.0	01/25/18 09:50	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/25/18 09:50	
Diisopropyl ether	ug/L	<0.50	1.0	01/25/18 09:50	
Ethylbenzene	ug/L	<0.50	1.0	01/25/18 09:50	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

METHOD BLANK: 1641954

Matrix: Water

Associated Lab Samples: 40163882001, 40163882002, 40163882003, 40163882004, 40163882008, 40163882009, 40163882010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/25/18 09:50	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/25/18 09:50	
m&p-Xylene	ug/L	<1.0	2.0	01/25/18 09:50	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/25/18 09:50	
Methylene Chloride	ug/L	<0.23	1.0	01/25/18 09:50	
n-Butylbenzene	ug/L	<0.50	1.0	01/25/18 09:50	
n-Propylbenzene	ug/L	<0.50	1.0	01/25/18 09:50	
Naphthalene	ug/L	<2.5	5.0	01/25/18 09:50	
o-Xylene	ug/L	<0.50	1.0	01/25/18 09:50	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/25/18 09:50	
sec-Butylbenzene	ug/L	<2.2	5.0	01/25/18 09:50	
Styrene	ug/L	<0.50	1.0	01/25/18 09:50	
tert-Butylbenzene	ug/L	<0.18	1.0	01/25/18 09:50	
Tetrachloroethene	ug/L	<0.50	1.0	01/25/18 09:50	
Toluene	ug/L	<0.50	1.0	01/25/18 09:50	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/25/18 09:50	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/25/18 09:50	
Trichloroethene	ug/L	<0.33	1.0	01/25/18 09:50	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/25/18 09:50	
Vinyl chloride	ug/L	<0.18	1.0	01/25/18 09:50	
4-Bromofluorobenzene (S)	%	84	61-130	01/25/18 09:50	
Dibromofluoromethane (S)	%	103	67-130	01/25/18 09:50	
Toluene-d8 (S)	%	93	70-130	01/25/18 09:50	

LABORATORY CONTROL SAMPLE: 1641955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	42.8	86	70-130	
1,1,2-Trichloroethane	ug/L	50	48.4	97	70-130	
1,1-Dichloroethane	ug/L	50	44.9	90	71-132	
1,1-Dichloroethene	ug/L	50	47.7	95	75-130	
1,2,4-Trichlorobenzene	ug/L	50	44.0	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.1	72	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	48.1	96	70-130	
1,2-Dichloroethane	ug/L	50	44.2	88	70-131	
1,2-Dichloropropane	ug/L	50	46.6	93	80-120	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,4-Dichlorobenzene	ug/L	50	50.9	102	70-130	
Benzene	ug/L	50	44.2	88	73-145	
Bromodichloromethane	ug/L	50	51.9	104	70-130	
Bromoform	ug/L	50	62.8	126	67-130	
Bromomethane	ug/L	50	38.5	77	26-128	

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

LABORATORY CONTROL SAMPLE: 1641955

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	59.3	119	70-133	
Chlorobenzene	ug/L	50	55.4	111	70-130	
Chloroethane	ug/L	50	40.3	81	58-120	
Chloroform	ug/L	50	54.6	109	80-121	
Chloromethane	ug/L	50	29.9	60	40-127	
cis-1,2-Dichloroethene	ug/L	50	45.1	90	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.0	90	70-130	
Dibromochloromethane	ug/L	50	60.1	120	70-130	
Dichlorodifluoromethane	ug/L	50	31.3	63	20-135	
Ethylbenzene	ug/L	50	51.0	102	87-129	
Isopropylbenzene (Cumene)	ug/L	50	55.7	111	70-130	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	42.1	84	66-143	
Methylene Chloride	ug/L	50	43.2	86	70-130	
o-Xylene	ug/L	50	55.3	111	70-130	
Styrene	ug/L	50	55.0	110	70-130	
Tetrachloroethene	ug/L	50	55.5	111	70-130	
Toluene	ug/L	50	54.5	109	82-130	
trans-1,2-Dichloroethene	ug/L	50	47.1	94	75-132	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	56.7	113	76-133	
Vinyl chloride	ug/L	50	38.3	77	57-136	
4-Bromofluorobenzene (S)	%			97	61-130	
Dibromofluoromethane (S)	%			100	67-130	
Toluene-d8 (S)	%			90	70-130	

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

QC Batch: 279886 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40163882005, 40163882006, 40163882007

METHOD BLANK: 1642382 Matrix: Water
Associated Lab Samples: 40163882005, 40163882006, 40163882007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/26/18 09:26	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/26/18 09:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/26/18 09:26	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/26/18 09:26	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/26/18 09:26	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/26/18 09:26	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/26/18 09:26	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/26/18 09:26	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/26/18 09:26	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/26/18 09:26	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/26/18 09:26	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/26/18 09:26	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/26/18 09:26	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/26/18 09:26	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/26/18 09:26	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/26/18 09:26	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/26/18 09:26	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/26/18 09:26	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/26/18 09:26	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/26/18 09:26	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/26/18 09:26	
2-Chlorotoluene	ug/L	<0.50	1.0	01/26/18 09:26	
4-Chlorotoluene	ug/L	<0.21	1.0	01/26/18 09:26	
Benzene	ug/L	<0.50	1.0	01/26/18 09:26	
Bromobenzene	ug/L	<0.23	1.0	01/26/18 09:26	
Bromochloromethane	ug/L	<0.34	1.0	01/26/18 09:26	
Bromodichloromethane	ug/L	<0.50	1.0	01/26/18 09:26	
Bromoform	ug/L	<0.50	1.0	01/26/18 09:26	
Bromomethane	ug/L	<2.4	5.0	01/26/18 09:26	
Carbon tetrachloride	ug/L	<0.50	1.0	01/26/18 09:26	
Chlorobenzene	ug/L	<0.50	1.0	01/26/18 09:26	
Chloroethane	ug/L	<0.37	1.0	01/26/18 09:26	
Chloroform	ug/L	<2.5	5.0	01/26/18 09:26	
Chloromethane	ug/L	<0.50	1.0	01/26/18 09:26	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/26/18 09:26	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/26/18 09:26	
Dibromochloromethane	ug/L	<0.50	1.0	01/26/18 09:26	
Dibromomethane	ug/L	<0.43	1.0	01/26/18 09:26	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/26/18 09:26	
Diisopropyl ether	ug/L	<0.50	1.0	01/26/18 09:26	
Ethylbenzene	ug/L	<0.50	1.0	01/26/18 09:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

METHOD BLANK: 1642382

Matrix: Water

Associated Lab Samples: 40163882005, 40163882006, 40163882007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/26/18 09:26	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/26/18 09:26	
m&p-Xylene	ug/L	<1.0	2.0	01/26/18 09:26	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/26/18 09:26	
Methylene Chloride	ug/L	<0.23	1.0	01/26/18 09:26	
n-Butylbenzene	ug/L	<0.50	1.0	01/26/18 09:26	
n-Propylbenzene	ug/L	<0.50	1.0	01/26/18 09:26	
Naphthalene	ug/L	<2.5	5.0	01/26/18 09:26	
o-Xylene	ug/L	<0.50	1.0	01/26/18 09:26	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/26/18 09:26	
sec-Butylbenzene	ug/L	<2.2	5.0	01/26/18 09:26	
Styrene	ug/L	<0.50	1.0	01/26/18 09:26	
tert-Butylbenzene	ug/L	<0.18	1.0	01/26/18 09:26	
Tetrachloroethene	ug/L	<0.50	1.0	01/26/18 09:26	
Toluene	ug/L	<0.50	1.0	01/26/18 09:26	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/26/18 09:26	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/26/18 09:26	
Trichloroethene	ug/L	<0.33	1.0	01/26/18 09:26	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/26/18 09:26	
Vinyl chloride	ug/L	<0.18	1.0	01/26/18 09:26	
4-Bromofluorobenzene (S)	%	88	61-130	01/26/18 09:26	
Dibromofluoromethane (S)	%	107	67-130	01/26/18 09:26	
Toluene-d8 (S)	%	91	70-130	01/26/18 09:26	

LABORATORY CONTROL SAMPLE: 1642383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.8	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.2	90	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	44.3	89	71-132	
1,1-Dichloroethene	ug/L	50	49.6	99	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.4	83	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	52.5	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dichloroethane	ug/L	50	49.0	98	70-131	
1,2-Dichloropropane	ug/L	50	43.5	87	80-120	
1,3-Dichlorobenzene	ug/L	50	49.4	99	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
Benzene	ug/L	50	47.1	94	73-145	
Bromodichloromethane	ug/L	50	54.8	110	70-130	
Bromoform	ug/L	50	67.8	136	67-130 L1	
Bromomethane	ug/L	50	40.6	81	26-128	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

LABORATORY CONTROL SAMPLE: 1642383

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	61.6	123	70-133	
Chlorobenzene	ug/L	50	57.1	114	70-130	
Chloroethane	ug/L	50	42.0	84	58-120	
Chloroform	ug/L	50	54.9	110	80-121	
Chloromethane	ug/L	50	28.6	57	40-127	
cis-1,2-Dichloroethene	ug/L	50	44.6	89	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	64.8	130	70-130	
Dichlorodifluoromethane	ug/L	50	30.5	61	20-135	
Ethylbenzene	ug/L	50	52.9	106	87-129	
Isopropylbenzene (Cumene)	ug/L	50	57.1	114	70-130	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	44.9	90	66-143	
Methylene Chloride	ug/L	50	43.4	87	70-130	
o-Xylene	ug/L	50	54.1	108	70-130	
Styrene	ug/L	50	56.6	113	70-130	
Tetrachloroethene	ug/L	50	56.2	112	70-130	
Toluene	ug/L	50	51.9	104	82-130	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	75-132	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Trichloroethene	ug/L	50	57.3	115	70-130	
Trichlorofluoromethane	ug/L	50	59.2	118	76-133	
Vinyl chloride	ug/L	50	36.2	72	57-136	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1642497 1642498

Parameter	Units	40163909001		MSD		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.5	49.6	107	99	70-134	8	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	44.3	43.5	89	87	70-130	2	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.0	49.1	106	98	70-130	8	20	
1,1-Dichloroethane	ug/L	0.77J	50	50	47.0	46.3	92	91	71-133	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	51.0	48.2	102	96	75-136	6	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	45.3	44.5	91	89	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	38.3	34.6	77	69	63-123	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	50.3	48.9	101	98	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.1	49.3	102	99	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	44.5	44.5	89	89	70-131	0	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	45.9	46.1	92	92	80-120	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	49.4	48.8	99	98	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	52.1	50.2	104	100	70-130	4	20	

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QUALITY CONTROL DATA

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Parameter	Units	40163909001		1642497		1642498		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<0.50	50	50	45.5	44.4	91	89	73-145	2	20		
Bromodichloromethane	ug/L	<0.50	50	50	52.8	54.9	106	110	70-130	4	20		
Bromoform	ug/L	<0.50	50	50	66.6	65.5	133	131	67-130	2	20	M0	
Bromomethane	ug/L	<2.4	50	50	46.5	41.7	93	83	26-129	11	20		
Carbon tetrachloride	ug/L	<0.50	50	50	59.7	57.4	119	115	70-134	4	20		
Chlorobenzene	ug/L	<0.50	50	50	55.7	56.8	111	114	70-130	2	20		
Chloroethane	ug/L	<0.37	50	50	43.9	39.3	88	79	58-120	11	20		
Chloroform	ug/L	<2.5	50	50	56.2	52.0	112	104	80-121	8	20		
Chloromethane	ug/L	<0.50	50	50	36.3	27.9	73	56	40-128	26	20	R1	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	45.2	45.6	90	91	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	45.2	47.1	90	94	70-130	4	20		
Dibromochloromethane	ug/L	<0.50	50	50	63.3	62.2	127	124	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	34.3	28.4	69	57	20-146	19	20		
Ethylbenzene	ug/L	<0.50	50	50	52.6	53.0	105	106	87-129	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.8	58.2	112	116	70-130	4	20		
m&p-Xylene	ug/L	<1.0	100	100	107	111	107	111	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	43.8	40.5	88	81	66-143	8	20		
Methylene Chloride	ug/L	<0.23	50	50	44.9	43.0	90	86	70-130	4	20		
o-Xylene	ug/L	<0.50	50	50	53.2	56.4	106	113	70-130	6	20		
Styrene	ug/L	<0.50	50	50	55.5	54.7	111	109	70-130	1	20		
Tetrachloroethene	ug/L	<0.50	50	50	57.2	56.4	114	113	70-130	1	20		
Toluene	ug/L	<0.50	50	50	52.0	51.8	104	104	82-131	1	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	49.8	47.2	100	94	75-135	5	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.3	47.3	93	95	70-130	2	20		
Trichloroethene	ug/L	<0.33	50	50	54.9	56.8	110	114	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	61.1	55.4	122	111	76-150	10	20		
Vinyl chloride	ug/L	<0.18	50	50	41.7	35.7	83	71	56-143	16	20		
4-Bromofluorobenzene (S)	%						96	100	61-130				
Dibromofluoromethane (S)	%						102	97	67-130				
Toluene-d8 (S)	%						93	90	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 17-1124 SHOREWOOD CLEANERS

Pace Project No.: 40163882

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40163882001	MW-1	EPA 8260	279773		
40163882002	MW-2	EPA 8260	279773		
40163882003	MW-3	EPA 8260	279773		
40163882004	MW-4	EPA 8260	279773		
40163882005	MW-5	EPA 8260	279886		
40163882006	MW-6	EPA 8260	279886		
40163882007	MW-7	EPA 8260	279886		
40163882008	MW-8	EPA 8260	279773		
40163882009	MW-9	EPA 8260	279773		
40163882010	TB	EPA 8260	279773		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Fehr Graham
 Branch/Location: Plymouth, NJ
 Project Contact: Ken Ebbott
 Phone: (908) 902-2444
 Project Number: 17-1124
 Project Name: Shorewood Cleaners
 Project State: NJ
 Sampled By (Print): Dillon Plankin
 Sampled By (Sign): DMP/PL
 PO #: _____
 Regulatory Program: _____



CHAIN OF CUSTODY

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

FILTERED?
(YES/NO)
PRESERVATION
(CODE)

Analyses Requested

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested		Y/N	Pick Letter
					DATE	TIME		
001	MU-1	1-23-18	1250	GW				
002	MU-2		1240		X			
003	MU-3		1300		X			
004	MU-4		1330		X			
005	MU-5		1310		X			
006	MU-6		1340		X			
007	MU-7		1320		X			
008	MU-8		1230		X			
009	MU-9		1420		X			
010	TB							

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

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Relinquished By: DMP/PL Date/Time: 730 1-24-18
 Relinquished By: Ken Ebbott Date/Time: 1124/18 1150
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: Ken Ebbott Date/Time: 1000
 Received By: Dillon Plankin Date/Time: 1150
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Special pricing and release of liability

UPPER MIDWEST REGION

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

RM

410163882

Sample Condition Upon Receipt

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



Client Name: Fehr Graham

Project #: **WO# : 40163882**

Courier: Fed Ex UPS Client Pace Other: _____



Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: ROI /Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 1-24-18
Initials: SKW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>No MS/MSD Volume.</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≥ 9; NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> , coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>388</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: SKW

Date: 1/24/18