KEY ENGINEERING GROUP LTD.
A Division of SET Environmental Inc
735 North Water Street, Suite 510
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February 28, 2020

Mr. Paul Grittner
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 North Dr. Luther Martin King Jr Drive
Milwaukee, Wisconsin 53212

Reference: *Site Investigation Work Plan*
Schaefer Brush
1101 South Prairie Avenue
Waukesha, Wisconsin
FID No. 268138750
BRRTS No. 02-68-563736

KEY ENGINEERING GROUP, LTD.
File No. 1604-1204-0002

Dear Program Assistant:

On behalf of 1101 Gage, Inc., please find enclosed the *Site Investigation Work Plan* for the property located at 1101 South Prairie Avenue in Waukesha, Wisconsin. Key Engineering Group, Ltd. (KEY) is requesting a review and approval of this report by March 12, 2020 in order to receive comments before the next sampling event. Enclosed is the Work Plan, the Wisconsin Department of Natural Resources (WDNR) Form 4400-237, and associated review fee of $700.
Sincerely,

KEY ENGINEERING GROUP, LTD.

Toni L. Schoen
Senior Project Manager

Enclosure: *Site Investigation Work Plan*
WDNR Form 4400-237
$700 Review Fee

cc: Jeffrey Mawicke, Mawicke & Goisman, S.C.
Sheri Reichart, 1101 Gage Inc.

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SITE INVESTIGATION WORK PLAN

Schaefer Brush
1101 South Prairie Avenue
Waukesha, Wisconsin
FID No. 268138750
BRRTS No. 02-68-563736

February 28, 2020

Prepared for:
1101 Gage, Inc.
Mr. Jeffrey Mawicke
Mawicke & Goisman, S.C.
1509 North Prospect Avenue
Milwaukee, Wisconsin 53202

SITE INVESTIGATION WORK PLAN

Schaefer Brush
1101 South Prairie Avenue
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February 28, 2020

PREPARED FOR:

1101 Gage, Inc.
Mr. Jeffrey Mawicke
Mawicke & Goisman, S.C.
1509 North Prospect Avenue
Milwaukee, Wisconsin 53202

KEY ENGINEERING GROUP, LTD.

Toni Schoen
Senior Project Manager

D'Arcy J. Gravelle, PG, CPG
Principal

CERTIFICATION

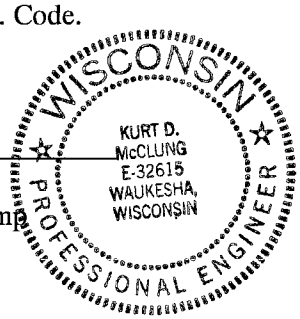
I, Kurt McClung, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Kurt McClung, PE

006-32615

PE Number

PE Stamp



I, D'Arcy Gravelle, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

D'Arcy Gravelle, PG, CPG

2/26/20

Date

PG Stamp

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TABLES

FIGURES

1.0 INTRODUCTION

Key Engineering Group Ltd (KEY) has been retained to assist with environmental investigation activities at the property located at 1101 South Prairie Avenue, in Waukesha, Wisconsin (Site).

A *Phase I Environmental Site Assessment* (ESA) was prepared by KEY in March 2015. Two recognized environmental conditions (RECs) were identified which included historical manufacturing use and a federal government document regarding groundwater impacts. A *Phase II ESA* was completed by KEY in April 2015. Soil and groundwater impacts were detected above Wisconsin criteria. A release was reported to the Wisconsin Department of Natural Resources (WDNR) on May 26, 2015 for soil and groundwater contamination related to volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), and arsenic. Subsequently, a Bureau of Remediation and Redevelopment Tracking System (BRRTS) number 02-68-563736 was assigned.

A *Site Investigation Work Plan* was submitted to the WDNR in June 2015. A *Site Investigation Report and Remedial Action Plan* were submitted to the WDNR in March 2016. Additional investigation activities were requested in a letter from the WDNR dated August 17, 2016. Additional investigation activities were completed. A pressurization system was installed in 2018 to interrupt the vapor intrusion pathway. Performance monitoring was completed to demonstrate the pressurization system was effective. A *Supplemental Site Investigation & Remedial Action Plan* were submitted to the WDNR on May 31, 2019. On December 13, 2019, KEY and a representative for Schaefer Brush attended a meeting with the WDNR to discuss the effectiveness of the pressurization system to mitigate vapor. At the meeting, the WDNR requested more time to determine if additional data were needed to demonstrate the system's effectiveness. On January 14, 2020, KEY met with the WDNR again and a scope of work was developed based on the requests from this second meeting.

This report presents a work plan for continuing performance monitoring to demonstrate the pressurization system effectiveness and continued groundwater monitoring. The information provided herein was prepared in general accordance with the requirements of NR 716, Wisconsin Administrative Code.

2.0 PROJECT BACKGROUND

2.1 Site Location and Contacts

The subject site is comprised of one parcel of land located at 1101 South Prairie Avenue, in Waukesha, Wisconsin. The subject site is located at 42˚59'31.56'' North latitude, 88˚14'31.92'' West longitude, which is in Waukesha County, Wisconsin. Universal Traverse Mercator (WTM91) coordinates are x 663290, y 281444. The subject site location is presented on Figure 1.

The following contact information is provided for the facility representative and environmental consultant:

Responsible Party (RP):
Ms. Sheri Reichart, Agent
1101 Gage Inc.
1101 South Prairie Avenue
Waukesha, Wisconsin 53186

RP Representative:
Mr. Jeffrey Mawicke, Attorney
Mawicke & Goisman, S.C.
1509 North Prospect Avenue
Milwaukee, Wisconsin 53202

Property Operator:
Mr. Kim Erdmann
Schaefer Brush Mfg. Co.
1101 South Prairie Avenue
Waukesha, Wisconsin 53186

Environmental Consultant:
Kenneth W. Wein, CHMM
Key Engineering Group Ltd.
735 North Water Street, Suite 510
Milwaukee, Wisconsin 53202

2.2 Site Description

The Site consists of a rectangular shaped parcel of land located in an industrial area on the northeast corner of South Prairie Avenue and Progress Avenue. A site layout map is presented as Figure 2. The Site is approximately 4.99 acres and is developed with a manufacturing and office building. The property is located in an area zoned as M-2 General Manufacturing. The entire building is occupied by Schaefer Brush. Schaefer Brush uses the Site for the design and manufacturing of wire brushes.

The Site is developed with an approximately 60,100 square building located on the west-central area of the property. The building is slab on grade construction, single level brick with a metal roof with the exception of a small basement (approximately 3,400 square feet) underneath the west central portion of the building where three furnaces, water heaters, and the building's sprinkler system are located. The western approximate third

of the building is used as offices and cafeteria (approximately 9,175 square feet) , the center of the building is used for manufacturing and a machine shop, and the eastern approximate third of the building is using for storage and shipping (48,400 square feet). An interior site layout map is presented as Figure 3.

The subject site is located in an area of industrial land-use activity. Surrounding land-use is described as follows:

- North: Prairie Home Cemetery – Utilized as a cemetery.
- South: Bauer Built Tire – Utilized for the manufacturing of tires.

  Quest Graphics – Utilized for printing, binding and finishing services.
- East: DSM Food Specialties – Utilized for the manufacturing of biomedical devices and food-related products.
- West: Prairie Avenue and Aladdin Engineering & Manufacturing, Inc. –Utilized for the design and manufacturing of custom production machinery and automation.

3.0 GEOLOGY AND HYDROGEOLOGY

The Site geology was described as brown silt with some sand and gravel from approximately 0.5 to 6 feet, underlain by light brown silty sand and gravel up to 24 feet, underlain by medium brown sand and silt up to 35 feet below ground surface (bgs). Dolomite bedrock is estimated between 50 and 100 feet bgs.

Groundwater in the monitoring wells ranged from approximately 21.6 to 25.9 feet bgs onsite and approximately 24.7 to 28.7 feet offsite. Groundwater flow is primarily to the north, but there is occasionally a groundwater flow component to the northeast. Site utilities are located above the water table in the permeable native soil.

4.0 SUMMARY OF INVESTIGATION AND VAPOR MITIGATION ACTIVITIES

Investigation activities were completed between April 2015 and May 2019. Soil and groundwater analytical results are presented in Tables 1 and 2, respectively. Sub-slab vapor and indoor air sampling results prior to the vapor migration system installation are presented in Table 3. Post vapor migration system vapor and indoor air analytical results are presented in Table 4. Boring and well locations are presented on Figure 2. An interior site layout map is presented as Figure 3.

Below is a summary of the key findings and conclusions from the site investigation. For additional information, please refer to the *Supplemental Site Investigation Report & Remedial Action Plan* submitted to the WDNR on May 31, 2019.

- Site investigation activities included the advancement of 31 soil borings (SP-1 through SP-24 and MW-1 through MW-7), installation, development, and groundwater sampling of seven monitoring wells (MW-1 through MW-7), a vapor intrusion assessment, and installation and performance monitoring of a pressurization system.
- **Soil**

  Soil samples were collected and submitted for laboratory analysis of VOCs, PAHs, and RCRA metals. The Site is currently industrial, however non-industrial direct contact residual contaminant levels (RCLs) were applied to avoid the property being restricted to industrial use in the future.

  - VOCs were detected below their respective non-industrial and industrial direct contact RCLs.
  - PCE was the primary chlorinated VOC detected above the protection of groundwater RCL. PCE was detected above the protection of groundwater RCL in soil samples between 2 to 20 feet bgs with concentrations ranging from 0.026 milligrams per kilogram (mg/kg) to 5.8 mg/kg. TCE and cis-1,2-DCE were also detected exceeding the protection of groundwater RCL in one location (SP-3).

    Most of the PCE detections are north of the building and under the eastern side of the building. The approximate eastern third of the building is an addition constructed between 1963 and 1970. There is a mezzanine on the north side of this addition that is serving as a structural impediment to investigate soil and groundwater.

    The source of the low-level chlorinated VOCs is thought to be poor housekeeping practices with solvents likely used by Electronic Secretary or GTE. Schaefer Brush has not used chlorinated solvents onsite and has no records of use during their years of operation.
  - Benzo(a)pyrene was detected above the non-industrial direct contact RCL at SP-3 from 3 to 4 feet at 0.26 mg/kg. Based on the WDNR's modified version of the non-industrial direct contact spreadsheet, this area would require a cap if the land use were to change from industrial to non-industrial. Chrysene was also detected above the protection of groundwater RCL at SP-3.

- No RCRA metal concentrations exceeded their respective background threshold values, industrial or non-industrial direct contact RCLs, or protection of groundwater RCLs.

- **Groundwater**

  Groundwater samples were collected and submitted for VOCs, PAHs, and RCRA metals laboratory analyses.

  - Monitoring network includes MW-1 through MW-7.
  - Nine to ten sampling events were conducted at monitoring wells MW-1 through MW-7.
  - PCE was the primary constituent in groundwater. ESs were exceeded in MW-1 through MW-3 and MW-7. Based on area-wide extent of PCE from neighboring properties, the extent of the groundwater plume is delineated. Groundwater concentrations are stable or decreasing in the monitoring well network.

    The source of the chlorinated VOCs in soil are likely associated with poor housekeeping by Electronic Secretary or GTE prior to 1982 and the migration of the soil impacts from the historical use of VOCs at the site. Schaefer Brush has not used chlorinated solvents on-site and has no records of use during their years of operation.
  - PAHs were detected above ESs in MW-1 through MW-3 for benzo(a)pyrene, benzo(b)fluoranthene, and chrysene. PAH concentrations are decreasing in these wells.
  - Dissolved metal concentrations were reported below laboratory detection limits or below their respective PALs.

- **Vapor Intrusion Assessment**

  A vapor intrusion assessment was completed at the site between August 2016 and November 2018.

  - Sub-slab vapors were detected above large commercial VRSL for PCE at KVP-2 through KVP-4 with concentrations between 32,100 micrograms per cubic meter ($\mu g/m^3$) and 404,000 $\mu g/m^3$ (compared to 18,000 $\mu g/m^3$). TCE was also detected above the large commercial VRSL for KVP-2 at 9,710 $\mu g/m^3$ (compared to 880 $\mu g/m^3$).

  - Indoor air concentrations were detected above large commercial VAPs for TCE in IA-4 through IA-7 and IA-9 with concentrations between at 9.7 $\mu g/m^3$ and 55.8 $\mu g/m^3$, respectively.

    Concentrations of 1,4-dichlorobenzene and naphthalene exceeded their respective VAPs, however these analytes were attributed to deodorizers and chemicals used in the facility operations.

  - The indoor air exceedances were located in the eastern side of the manufacturing area and the shipping department.

- **Vapor Mitigation System**

  A vapor mitigation system was installed between February and March 2018. An audible alarm was installed in July 2018.

  - A pressurization system was installed to interrupt the vapor migration pathway into the building. The positive pressure ventilation system that was installed is a Rapid Engineering LLC 2010 direct fired 80/20 makeup air unit. The installed system unit is designed to bring outside air into the building at a rate sufficient to maintain an approximate positive pressure of 0.01 inches water column relative to the outside air pressure.

  - Performance monitoring (commissioning phase) was completed to demonstrate the effectiveness of the pressurization system. The system was optimized between April and October 2018.

    The WDNR Publication *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* (RR-800) identified commissioning guidelines to demonstrate the effectiveness of the pressurization system and interruption of the vapor pathway. Below are the performance monitoring criteria and data.

    Indoor Air Pressurization

    - Indoor air pressure readings from July 2018 through April 2019 (includes a heating and a cooling season) were at or greater than 0.01 inches of water. Based on the available pressure readings the monthly average was 0.2 to 0.3 inches of water. The system is operating above the design of 0.01 inches of water.

    Pressure Field Extension (PFE)

    - Sub-slab pressure readings were verified at lower levels than the indoor air pressure readings. The pressure gradient remained higher in the building than sub-slab (forcing building air out of the building towards and beneath the slab). This is verification that the vapor pathway was interrupted and working as designed.

    Verify Make-Up Air is From a Suitable Source

    - One background air sample (BG-3) was collected near the make-up air unit located on the rooftop and submitted for laboratory analysis of VOCs in October 2018. Background samples (GG-1 and BG-2) were also collected outside in January 2018 for VOC analysis before the system was installed.

      - VOCs were reported below the VALs. Therefore, the source of the make-up air is from a good source.

Indoor Air Sampling

- Indoor air samples were collected prior to the installation of the pressurization system. TCE was detected above the VAP of 8.8 µg/m^3 at IA-4 through IA-7 and IA-9 with concentrations ranging from 9.7 µg/m^3 to 55.8 µg/m^3. These sample locations correlate with where VRSLs were exceeded under the building in the eastern half of the manufacturing and the shipping departments.

- Since there were indoor air VAP exceedances prior to the system installation, post installation indoor air samples were collected, and laboratory analyzed to verify the system was effectively preventing vapor intrusion.

- On April 6, 2018, indoor air samples IA-12 through IA-18 and on October 31, 2018, indoor air samples IA-5, IA-9, and IA-12 through IA-18 were collected and laboratory analyzed for VOCs. These sampling events serve as samples from the heating and cooling seasons when temperatures we below and above freezing.

    - VOCs were reported below laboratory detection limits or VAPs for constituents that are intended to be mitigated, like PCE and TCE. This demonstrates that the vapor pathway has been interrupted and the system is effective.

    - VOCs were detected above their respective VAPs for 1,4-dichlorobenzene and naphthalene. As previously stated, the source of the 1,4-dichlorobenzene is likely from deodorizers and naphthalene is from the lubricant Perkool 993 used in the facility.

5.0 SCOPE OF WORK

A *Supplemental Site Investigation Report & Remedial Action Plan* were submitted to the WDNR on May 31, 2019. On December 13, 2019, KEY and a representative for Schaefer Brush attended a meeting with the WDNR to discuss the effectiveness of the pressurization system to mitigate vapor. At the meeting, the WDNR requested more time to determine if additional data were needed to demonstrate the system's effectiveness. On January 14, 2020, KEY met with the WDNR again. At the meeting, the WDNR explained that this pressurization system was one of the first to be approved by the WDNR since the January 2018 *Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin Wis. Stat. ch. 292; Wis. Admin. Code ch. NR 700* Guidance and as such, was under more scrutiny. The following sections present a description of the work to be completed to address the addition data requested by the WDNR at the last meeting.

5.1 Groundwater Level Measurements and Sampling

At the WDNR meeting held on January 14, 2020, KEY was requested to sample MW-3 and MW-7 quarterly until our next submittal. KEY proposes to collect groundwater samples from monitoring wells MW-2 through MW-4 and MW-7. Samples will be collected in March and June 2020, as long as the wells can be located under snow.

Prior to sampling, a decontaminated water level indicator will be used to collect depth to water measurements from monitoring wells MW-1 through MW-7. Groundwater samples will be collected and submitted for laboratory analysis of VOCs using SW-846 Method 8260B. Nitrile gloves will be worn by the sampling personnel and discarded between each sampling location and following any activity that may produce cross-contamination. All containers and preservatives will be obtained directly from the analytical laboratories. Immediately after collection, the sample containers will be placed in a cooler with ice until shipment to the appropriate laboratory can be arranged. Standard chain-of-custody procedures will be followed throughout sample collection, storage, and shipment.

Groundwater samples will be collected using dedicated bailers. A duplicate sample will be collected per sampling event. A trip blank supplied by the laboratory will be maintained with the collected samples and submitted for VOC analysis. The trip blank is a water sample prepared by the laboratory and analyzed to identify contamination which may occur due to outside influences.

Purge water generated during the well sampling will be contained in steel 55-gallon drums. The drums will be properly labeled and disposed of in accordance with Wisconsin waste guidelines.

5.2 Office & Basement Vapor Intrusion Assessment

The office and basement have a heating ventilation and air conditioning system separate from the manufacturing and shipping department. The WDNR has requested a vapor intrusion assessment of the office and basement. Below is a summary of work completed, as well as a proposed scope of work.

5.2.1 Install Vapor Pins for Pressure Readings and Sub-Slab Vapor Sampling

KEY installed two sub-slab Cox-Calvin Vapor Pins® (vapor pins) in the office and one in the basement under the office on February 11, 2020. The sample IDs are SS-11 through SS-13 (Figure 3).

The installation of the vapor pins required drilling a 1.5-inch wide hole to approximately 1.75 inches through the concrete floor using a hammer drill. Then a 5/8-inch hole was drilled through the center of the 1.5-inch hole through the concrete floor and approximately one inch into the underlying soil to form a void. The dust from the drilling was vacuumed. The vapor pin assembly (stainless steel hose barb with an outer silicon sleeve) was inserted into the 5/8-inch drill hole and tapped down below the concrete floor surface. The silicon sleeve formed a slight bulge between the slab and the vapor pin. A water dam was used confirm the seals are adequate.

5.2.2 Sub-Slab Vapor and Indoor Air Samples

- KEY proposes to collect two sub-slab vapor samples from the vapor pins installed in the office (SS-11 and SS-13) and one from the basement (SS-12) located under the office twice in a heating season (3 samples in February and 3 samples in March) and in twice in a cooling season (3 samples in June and 3 samples in August). These samples will have a 30-minute collection time. A schedule is presented in Section 5.5.

  Sub-slab samples SS-11 through SS-13 were collected on February 11, 2020. A letter report with the field procedures, analytical results and conclusions will be submitted to the WDNR once the data is received.

  The field procedure for sub-slab samples included confirming the seals were adequate, attaching a 6-liter Summa canister to the vapor pin and extracting a 30-minute sample from beneath the concrete slab. The sub-slab vapor samples were analyzed for VOCs using Method TO-15 by Pace Laboratory Services (Pace). After the samples were collected, the vapor pins were capped with a vinyl cap to prevent vapor from beneath the concrete slab from entering the building. The 1.5-inch drill hole was capped with a flush mount stainless steel cap. These vapor pins will be used for the collection of future pressure measurements for performance monitoring of the sub-slab vapor mitigation system.

- KEY proposes to collect three co-located indoor air samples (IAO-1, IAO-2, and IAB-1) with the three proposed office and basement sub-slab samples. These samples will have an 8-hour collection time.

  Indoor air samples IAO-1, IAO-2, and IAB-1 were collected on February 11, 2020. A letter report with the field procedures, analytical results and conclusions will be submitted to the WDNR once the data is received.

The field procedure for indoor air samples included placing a 6-liter Summa canister approximately 5 feet off the ground, removing the nut on top of the canister, and opening the canister valve to begin sample collection. The valves were closed, and the nut was replaced when from the 8-hour collection time.

- A total of 12 sub-slab vapor and 12 indoor air samples will be collected. The vapor and indoor air samples will be collected and submitted for laboratory analysis of VOCs by Method TO-15.
- The office vapor pin locations were selected on opposite sides of the office, in hallways near occupied offices. The basement vapor pin location was selected in the room with the heating ventilation and air condition (HVAC) equipment and closed sump.
- The indoor air sample analytical results will be compared to the small commercial VALs (office and basement are collectively approximately 12,575 square feet). The sub-slab vapor samples analytical results will be compared to the small commercial VRSLs.

5.2.3 Pressure Readings

- KEY proposes to collect the following pressure readings using a micromanometer capable of measuring pressure to 0.001 inches of water.
    - Collect an indoor air pressure reading (in relation to the outdoor air) from the office.
    - Collect sub-slab pressure readings (in relation to the indoor air) from vapor pins installed on the north and south ends of the office (SS-11 and SS-13) and in the basement (SS-12).
    - Readings will be collected twice in a heating season (February and March) and twice in a cooling season (June and August) when indoor air and sub-slab vapor samples are also collected. A schedule is presented in Section 5.5.

Measurements were collected on February 11, 2020 after sub-slab vapor and indoor air sampling. The readings will be summarized in a letter to the WDNR when the analytical results are received.

5.3 Pressurization System Verification Sampling

The WDNR has requested continued indoor air pressure readings to confirm positive pressure throughout the manufacturing and shipping department and sub-slab pressure readings. The purpose of the pressure readings is to confirm positive pressure through the manufacturing and shipping departments, confirm a lower pressure under the slab in comparison to indoors, and determine if the indoor positive pressure is influencing the sub-slab pressure. The long-term effectiveness of the pressurization system will be accomplished by completing the below scope of work.

5.3.1 Install Indoor Air Pressure Ports

- KEY installed six indoor air building pressure ports (BPP-1 through BBP-6) on February 11, 2020. The locations are presented on Figure 3. A photograph of BBP-4 is presented to the right.

  The indoor air pressure ports will consist of ¼ inch polyvinyl chloride (PVC) pipe installed approximately 5 feet above the floor and extend approximately two inches inside the building to two inches past the exterior wall. The exterior end of the pipe will be capped when not in-use. The interior pipe will have a hose barb and be capped when not in-use. The pipes will be sealed with silicon on the interior and exterior wall and labeled with the port identification number.

- There are nine indoor air locations (BP-1 through BP-9) that are located in the manufacturing and shipping department that have been used as locations to measure the indoor air pressure in relation to the outdoor air. These locations are nearly evenly spaced across the manufacturing and shipping department. These locations may be used to collect additional indoor air pressure readings, if warranted.

5.3.2 Existing Sub-Slab Vapor Pins

- There are currently 10 sub-slab vapor pins (SS-1 through SS-10) installed in an approximate grid-like pattern across the manufacturing and shipping department for collecting sub-slab pressure readings. The locations are presented on Figure 3.

5.3.3 Collect Indoor Air and Sub-Slab Pressure Readings

- KEY proposes to collect indoor air pressure (in relation to the outdoor air) and sub-slab pressure readings (in relation to the indoor air) from the above locations twice during a heating season (February and March) and twice during a cooling season (June and August) from BPP-1 through BPP-6 and SS-1 through SS-10 . Measurements will be collected using a micromanometer which measures pressure in inches of water. A schedule is presented in Section 5.5.

  Measurements were collected on February 11, 2020 after sub-slab vapor and indoor air sampling. The readings will be summarized in a letter to the WDNR when the analytical results are received.

5.3.4 Indoor Air and Sub-Slab Vapor Testing in Manufacturing and Shipping Departments

The WDNR has requested additional sub-slab vapor and indoor air testing in the manufacturing and shipping department where the pressurization system is designed to mitigate vapor intrusion. The purpose of the sub-slab vapor samples is to compare chlorinated VOCs concentrations under the slab pre- and post-mitigation and determine if the neutral pressure under the slab (0.0 pressure) has resulted in the diffusion of vapors. The purpose of the indoor air samples is to confirm there are no chlorinated VOC exceedances in the air and the pressurization system is working effectively to mitigate vapor intrusion.

- Sub-slab vapor samples will be collected from SS-2 through SS-4 and SS-6 through SS-8 (Figure 3). Indoor air samples will be collected from IA-5, IA-12, IA-14, and IA-19 through IA-21 (Figure 3).

These sub-slab vapor and indoor air were collected on February 11, 2020. A letter report with the field procedures, analytical results and conclusions will be submitted to the WDNR once the data is received. The same field procedures discussed in Section 5.2.2 were used.

- Sample locations were determined based on the following criteria:
    1. Locations occupied on workers for a minimum of 8-hour shift (SS-2, SS-3, SS-7, SS-8, SS-11, SS-13, IA-12, and IA-19 through IA-21.
    2. Locations that allow for a uniform distribution across both departments. All proposed sample locations meet this criterion.
    3. Locations near the outer extents of where the pressurization system is designed to have positive pressure. All proposed sample locations meet this criterion.
    4. Locations where previous sample results were detected above VRSLs or VALs include SS-2 is near KVP-2 and IA-5, SS-3 is near KVP-4, IA-4, IA-9, and IA-21, and SS-7 is near KVP-3 and IA-6.
    5. Locations near floor penetrations like restroom or eyewash floor drains (SS-3, SS-4, SS-6, and SS-7), kitchenette floor drain (SS-11), and floor drain and closed sump in the basement (SS-12).
- KEY proposes to collect six sub-slab vapor samples and six indoor air samples in the manufacturing/shipping departments in a heating season (12 samples collected in February and 12 samples collected in March) and in a cooling season (12 samples collected in June and 12 samples collected in August). A schedule is presented in Section 5.5.
- A total of 48 samples will be collected. The sub-slab vapor and indoor air samples will be collected and submitted for laboratory analysis of VOCs by Method TO-15. The indoor air sample analytical results will be compared to the large commercial VALs. The sub-slab vapor samples analytical results will be compared to the VRSLs.

5.4 Reporting

Following receipt of the groundwater, sub-slab vapor, and indoor air analytical results and pressure readings, KEY will prepare a letter report in accordance with NR 716.14(2) Wis. Admin. Code. The letter reports will include WDNR *Form 4400-249 Site Investigation Sample Results Notification*, a summary of the field procedures, summary of analytical results, pressure readings, and conclusions.

5.5 Schedule

Below is a table with the schedule to complete the below work.

Location and Task	Map IDs	Analysis	Sample Dates
Office			February 11, March 16, June, August
Collect 2 Indoor Air & 2 Co-Located Sub-Slab Vapor Samples	IAO-1, IAO-2, SS-11, SS-13	VOCs	
Collect 1 Indoor Air Pressure Reading	BP-1	Field Measurement	
Collect 2 Sub-Slab Pressure Reading	SS-11, SS-13		
Basement			
Collect 1 Indoor Air & Co-Located Sub-Slab Vapor Samples	IAB-1, SS-12	VOCs	
Collect 1 Sub-Slab Vapor	SS-12	Field Measurement	
Manufacturing/Shipping Department			
Collect 6 Indoor Air & 6 Co-Located Sub-Slab Vapor Samples	IA-5, IA-12, IA-14, IA-19, IA-20, IA-21 SS-2, SS-2, SS-4, SS-6, SS-7, SS-8	VOCs	
Collect 9 Indoor Air Pressure Readings	BP-2 through BP-9	Field Measurement	
Collect 9 Sub-Slab Pressure Readings	SS-1 through SS-10		
Groundwater Sampling			
Site-Wide Water Levels	MW-1 through MW-7	VOCs	March, June
Groundwater sample wells	MW-2, MW-3, MW-4, MW-7		

*** February samples and readings were collected on February 11, 2020.**

Tables

Table 1. Soil Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	SP-1		SP-2		SP-3		SP-4	SP-5		SP-6		SP-7	
Date Collected					4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015	4/14/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015
Depth (feet bgs)					4-6	10-12	2-4	6-8	2-4	8-10	2-4	2-4	8-10	2-4	4-6	2-4	8-10
Saturated(s)/Unsaturated(u)					u	u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																	
cis-1,2-Dichloroethene	156	2,340	0.0412	---	<0.025	<0.025	<0.025	<0.025	**0.045J**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	---	<0.025	<0.025	<0.025	<0.025	**5.8**	**4.5**	**0.053J**	<0.025	<0.025	<0.025	<0.025	<0.025	**0.22**
Trichloroethene	1.3	8.41	0.0036	---	<0.025	<0.025	<0.025	<0.025	**0.044J**	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PAHs (mg/kg)																	
Acenaphthene	3,590	45,200	---	---	0.012J	<0.0086	0.015J	0.014J	0.052J	0.02	<0.0088	NA	NA	<0.0090	<0.0086	<0.010	<0.0087
Acenaphthylene	---	---	---	---	<0.0080	<0.0077	<0.0082	<0.0078	<0.044	<0.0078	<0.0079	NA	NA	<0.0081	<0.0077	<0.0089	<0.0078
Anthracene	17,900	100,000	196.9492	---	0.066	<0.0089	0.05	0.065	0.18	0.049	<0.0091	NA	NA	<0.0093	<0.0089	<0.010	<0.0090
Benzo(a)anthracene	1.14	20.8	---	---	0.12	<0.0060	0.063	0.11	0.27	0.075	0.026	NA	NA	0.0095J	<0.0060	<0.0069	<0.0060
Benzo(a)pyrene	0.115	2.11	0.47	---	0.11	<0.0062	0.059	0.11	0.26	0.07	0.031	NA	NA	0.015J	<0.0061	<0.0071	<0.0062
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	0.12	<0.0086	0.062	0.12	0.24	0.067	0.029	NA	NA	0.013J	<0.0086	<0.010	<0.0087
Benzo(g,h,i)perylene	---	---	---	---	0.08	<0.0066	0.036	0.075	0.160	0.045	0.023	NA	NA	0.013J	<0.0065	<0.0076	<0.0066
Benzo(k)fluoranthene	11.5	211	---	---	0.10	<0.0095	0.053	0.092	0.24	0.065	0.032	NA	NA	0.017J	<0.0095	<0.011	<0.0096
Chrysene	115	2,110	0.0721	---	0.14	<0.0080	0.079	0.13	**0.33**	**0.09**	0.035	NA	NA	0.016J	<0.0079	<0.0092	<0.0080
Dibenzo(a,h)anthracene	0.115	2.11	---	---	0.025	<0.0063	0.012J	0.024	0.050J	0.015J	<0.0064	NA	NA	<0.0066	<0.0063	<0.0073	<0.0064
Fluoranthene	2,390	30,100	88.8778	---	0.37	<0.0086	0.24	0.37	0.94	0.26	0.073	NA	NA	0.024	<0.0086	<0.010	<0.0087
Fluorene	2,390	30,100	14.8299	---	0.018	<0.0086	0.022	0.023	0.073J	0.025	<0.0088	NA	NA	<0.0090	<0.0086	<0.010	<0.0087
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	0.074	<0.0066	0.036	0.069	0.15	0.041	0.02	NA	NA	0.011J	<0.0065	<0.0076	<0.0066
1-methylnaphthalene	17.6	72.7	---	---	<0.0090	<0.0086	0.010J	<0.0087	<0.049	<0.0087	<0.0088	NA	NA	<0.0090	<0.0086	0.063	<0.0087
2-methylnaphthalene	239	3,010	---	---	<0.0090	<0.0086	0.013J	<0.0087	<0.049	0.010J	<0.0088	NA	NA	<0.0090	<0.0086	0.084	<0.0087
Naphthalene	5.52	24.1	0.6582	---	<0.0090	<0.0086	<0.0092	<0.0087	<0.049	0.016J	<0.0088	NA	NA	<0.0090	<0.0086	0.063	<0.0087
Phenanthrene	---	---	---	---	0.26	<0.0086	0.23	0.29	0.87	0.26	0.032	NA	NA	<0.0090	<0.0086	<0.010	<0.0087
Pyrene	1,790	22,600	54.5455	---	0.28	<0.0086	0.17	0.26	0.67	0.19	0.054	NA	NA	0.019	<0.0086	<0.010	<0.0087
RCRA Metals (mg/kg)																	
Arsenic	0.677	3	0.584	8	3.1	<3.2	5.2	2.9J	4.7	<2.9	4.3	4.4	4.8	NA	NA	4.8	5.6
Barium	15,300	100,000	164.8	364	14.9	8.9	46.9	13.8	75.3	10.9	13.8	17.2	22.6	NA	NA	121	19.9
Cadmium	71.1	985	0.752	1	<0.070	0.15J	0.18J	0.16J	0.082J	0.18J	0.14J	0.17J	0.12J	NA	NA	<0.070	<0.069
Chromium	---	---	360000	44	9.0	6.1	14.2	9.2	18.5	8.8	8.8	12.4	9.7	NA	NA	27.1	12.1
Lead	400	800	27	52	3.5	3.2	5.1	8.0	9.3	3.8	3.5	4.6	4.8	NA	NA	11.5	3.3
Mercury	3.13	3.13	0.208	---	0.0065J	0.0031J	0.0084	0.0058J	0.013	0.0037J	0.0061J	0.0062J	0.0083J	NA	NA	0.028	0.0069
Selenium	391	5840	0.52	---	<0.82	<0.78	<0.79	<0.69	<0.84	<0.71	<0.75	<0.82	<0.82	NA	NA	<0.82	<0.80
Silver	391	5840	0.8491	---	<0.30	<0.28	<0.28	<0.25	<0.30	<0.26	<0.27	<0.29	<0.29	NA	NA	<0.30	<0.29

Notes:

Metal values are compared residual contaminant levels if the background threshold values are exceeded.

Bold values exceed protection of groundwater residual contaminant level.

Boxed values exceed industrial direct contact residual contaminant level.

Underlined values exceed non-industrial direct contact residual contaminant level.

--- - no standard established

J - Results between laboratory limit of detection and limit of quanitification

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - not analyzed

RCRA - resource conservation recovery act

PAHs - polycyclic aromatic hydrocarbons

VOCs - volatile organic compounds

NR 722 cPAH Evaluation for SP-3 2 to 4 feet

Cumulative cPAHs Cancer Risk (DC)	3.3x10-6
No. of Individual Exceedances (DC), exclusive of cPAHs	0
Cumulative Hazard Index (DC)	0.0772
Cumulative Cancer Risk (DC)	3.5x10-6

Table 1. Soil Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	SP-8		SP-9		SP-10		SP-11		SP-12		SP-13	SP-14
Date Collected					7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/17/2015	7/17/2015
Depth (feet bgs)					2-4	6-8	2-4	8-10	2-4	8-10	4-6	8-10	2-4	8-10	1-3	1-3
Saturated(s)/Unsaturated(u)					u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																
cis-1,2-Dichloroethene	156	2,340	0.0412	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	---	**0.46**	**0.3**	<0.025	**0.25**	**0.043J**	**0.049J**	<0.025	**0.17**	**0.68**	**0.058J**	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PAHs (mg/kg)																
Acenaphthene	3,590	45,200	---	---	<0.0087	<0.0086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Acenaphthylene	---	---	---	---	<0.0078	<0.0077	NA	NA	<0.0078	<0.0077	NA	NA	NA	NA	NA	NA
Anthracene	17,900	100,000	196.9492	---	<0.0090	0.010J	NA	NA	<0.0090	<0.0089	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.14	20.8	---	---	<0.0060	0.045	NA	NA	<0.0060	<0.0059	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.115	2.11	0.47	---	<0.0062	0.057	NA	NA	<0.0062	<0.0061	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	<0.0087	0.066	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	---	---	---	---	<0.0066	0.038	NA	NA	<0.0066	<0.0065	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11.5	211	---	---	<0.0096	0.054	NA	NA	<0.0096	<0.0095	NA	NA	NA	NA	NA	NA
Chrysene	115	2,110	0.0721	---	<0.0081	0.063	NA	NA	<0.0081	<0.0079	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.115	2.11	---	---	<0.0064	0.012J	NA	NA	<0.0064	<0.0063	NA	NA	NA	NA	NA	NA
Fluoranthene	2,390	30,100	88.8778	---	<0.0087	0.12	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Fluorene	2,390	30,100	14.8299	---	<0.0087	<0.0086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	<0.0066	0.033	NA	NA	<0.0066	<0.0065	NA	NA	NA	NA	NA	NA
1-methylnaphthalene	17.6	72.7	---	---	<0.0087	<0.0086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	239	3,010	---	---	<0.0087	<0.0086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Naphthalene	5.52	24.1	0.6582	---	<0.0087	<0.0086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Phenanthrene	---	---	---	---	<0.0087	0.047	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
Pyrene	1,790	22,600	54.5455	---	<0.0087	0.086	NA	NA	<0.0087	<0.0086	NA	NA	NA	NA	NA	NA
RCRA Metals (mg/kg)																
Arsenic	0.677	3	0.584	8	NA	NA	NA	NA	6.7J	2.8	NA	NA	NA	NA	NA	NA
Barium	15,300	100,000	164.8	364	NA	NA	NA	NA	14.7	9	NA	NA	NA	NA	NA	NA
Cadmium	71.1	985	0.752	1	NA	NA	NA	NA	0.11J	<0.067	NA	NA	NA	NA	NA	NA
Chromium	---	---	360000	44	NA	NA	NA	NA	6.5	6.4	NA	NA	NA	NA	NA	NA
Lead	400	800	27	52	NA	NA	NA	NA	4.4	3.7	NA	NA	NA	NA	NA	NA
Mercury	3.13	3.13	0.208	---	NA	NA	NA	NA	0.0036J	<0.0032	NA	NA	NA	NA	NA	NA
Selenium	391	5840	0.52	---	NA	NA	NA	NA	<0.70	<0.78	NA	NA	NA	NA	NA	NA
Silver	391	5840	0.8491	---	NA	NA	NA	NA	<0.25	<0.28	NA	NA	NA	NA	NA	NA

Notes:

Metal values are compared residual contaminant levels if the background threshold values are exceede

Bold values exceed protection of groundwater residual contaminant level.

Boxed values exceed industrial direct contact residual contaminant level.

Underlined values exceed non-industrial direct contact residual contaminant level.

--- - no standard established

J - Results between laboratory limit of detection and limit of quanitification

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - not analyzed

RCRA - resource conservation recovery act

PAHs - polycyclic aromatic hydrocarbons

VOCs - volatile organic compounds

Table 1. Soil Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	SP-15		SP-16		SP-17		SP-18		SP-19		SP-20	
Date Collected					8/29/2016		8/29/2016		8/29/2016		8/29/2016		8/29/2016		8/29/2016	
Depth (feet bgs)					2-4	8-10	2-4	8-10	2-4	8-10	2-4	8-10	2-4	8-10	2-4	8-10
Saturated(s)/Unsaturated(u)					u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																
cis-1,2-Dichloroethene	156	2,340	0.0412	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.036	<0.025
Tetrachloroethene	33	145	0.0045	---	**1.8**	**0.17**	<0.025	**0.026J**	**0.078**	**0.18**	**0.064J**	<0.025	<0.025	<0.025	<0.036	<0.025
Trichloroethene	1.3	8.41	0.0036	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.036	<0.025
PAHs (mg/kg)																
Acenaphthene	3,590	45,200	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,900	100,000	196.9492	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.14	20.8	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.115	2.11	0.47	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11.5	211	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	115	2,110	0.0721	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.115	2.11	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,390	30,100	88.8778	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,390	30,100	14.8299	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-methylnaphthalene	17.6	72.7	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	239	3,010	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5.52	24.1	0.6582	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,790	22,600	54.5455	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RCRA Metals (mg/kg)																
Arsenic	0.677	3	0.584	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	15,300	100,000	164.8	364	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	71.1	985	0.752	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	---	---	360000	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	27	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	3.13	3.13	0.208	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	391	5840	0.52	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	391	5840	0.8491	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Metal values are compared residual contaminant levels if the background threshold values are exceede

Bold values exceed protection of groundwater residual contaminant level.

Boxed values exceed industrial direct contact residual contaminant level.

Underlined values exceed non-industrial direct contact residual contaminant level.

--- - no standard established

J - Results between laboratory limit of detection and limit of quanitification

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - not analyzed

RCRA - resource conservation recovery act

PAHs - polycyclic aromatic hydrocarbons

VOCs - volatile organic compounds

Table 1. Soil Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	SP-21			SP-22			SP-23			SP-24		
Date Collected					3/14/2017			3/14/2017			3/14/2017			3/14/2017		
Depth (feet bgs)					2-4	8-10	22-24	2-4	14-16	18-20	2-4	14-16	18-20	2-4	14-16	18-20
Saturated(s)/Unsaturated(u)					u	u	u	u	u	u	u	u	u	u	u	u
Detected VOCs (mg/kg)																
cis-1,2-Dichloroethene	156	2,340	0.0412	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	---	**0.62**	**0.20**	**0.37**	**0.38**	**0.53**	**0.65**	**0.30**	**0.083**	**0.10**	**0.062J**	**0.23**	**0.34**
Trichloroethene	1.3	8.41	0.0036	---	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PAHs (mg/kg)																
Acenaphthene	3,590	45,200	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,900	100,000	196.9492	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.14	20.8	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.115	2.11	0.47	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11.5	211	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	115	2,110	0.0721	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.115	2.11	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,390	30,100	88.8778	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,390	30,100	14.8299	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-methylnaphthalene	17.6	72.7	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-methylnaphthalene	239	3,010	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5.52	24.1	0.6582	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	---	---	---	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,790	22,600	54.5455	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RCRA Metals (mg/kg)																
Arsenic	0.677	3	0.584	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	15,300	100,000	164.8	364	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	71.1	985	0.752	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	---	---	360000	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	27	52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	3.13	3.13	0.208	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	391	5840	0.52	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	391	5840	0.8491	---	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

Metal values are compared residual contaminant levels if the background threshold values are exceede

Bold values exceed protection of groundwater residual contaminant level.

Boxed values exceed industrial direct contact residual contaminant level.

Underlined values exceed non-industrial direct contact residual contaminant level.

--- - no standard established

J - Results between laboratory limit of detection and limit of quanitification

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - not analyzed

RCRA - resource conservation recovery act

PAHs - polycyclic aromatic hydrocarbons

VOCs - volatile organic compounds

Table 1. Soil Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Non-Industrial Direct Contact Residual Contaminant Level	Industrial Direct Contact Residual Contaminant Level	Protection of Groundwater Residual Contaminant Level	Background Threshold Value	MW-1	MW-3		MW-6	
Date Collected					4/15/2015	7/15/2015	7/15/2015	9/16/2015	9/16/2015
Depth (feet bgs)					2-4	2-4	12.5-15	2-4	6-8
Saturated(s)/Unsaturated(u)					u	u	u	u	u
Detected VOCs (mg/kg)									
cis-1,2-Dichloroethene	156	2,340	0.0412	---	NA	<0.025	<0.025	<0.025	<0.025
Tetrachloroethene	33	145	0.0045	---	NA	<0.025	**0.12**	<0.025	<0.025
Trichloroethene	1.3	8.41	0.0036	---	NA	<0.025	<0.025	<0.025	<0.025
PAHs (mg/kg)									
Acenaphthene	3,590	45,200	---	---	NA	<0.010	<0.0088	<0.0086	NA
Acenaphthylene	---	---	---	---	NA	<0.0091	<0.0079	<0.0077	NA
Anthracene	17,900	100,000	196.9492	---	NA	<0.011	<0.0091	<0.0089	NA
Benzo(a)anthracene	1.14	20.8	---	---	NA	<0.0070	<0.0061	0.025	NA
Benzo(a)pyrene	0.115	2.11	0.47	---	NA	<0.0072	<0.0063	0.032	NA
Benzo(b)fluoranthene	1.15	21.1	0.2390	---	NA	<0.010	<0.0088	0.034	NA
Benzo(g,h,i)perylene	---	---	---	---	NA	<0.0077	<0.0067	0.025	NA
Benzo(k)fluoranthene	11.5	211	---	---	NA	<0.011	<0.0097	0.032	NA
Chrysene	115	2,110	0.0721	---	NA	<0.0094	<0.0081	0.041	NA
Dibenzo(a,h)anthracene	0.115	2.11	---	---	NA	<0.0074	<0.0064	0.0065J	NA
Fluoranthene	2,390	30,100	88.8778	---	NA	<0.010	<0.0088	0.074	NA
Fluorene	2,390	30,100	14.8299	---	NA	<0.010	<0.0088	<0.0086	NA
Indeno(1,2,3-cd)pyrene	1.15	21.1	---	---	NA	<0.0077	<0.0067	0.021	NA
1-methylnaphthalene	17.6	72.7	---	---	NA	<0.010	<0.0088	<0.0086	NA
2-methylnaphthalene	239	3,010	---	---	NA	<0.010	<0.0088	<0.0086	NA
Naphthalene	5.52	24.1	0.6582	---	NA	<0.010	<0.0088	<0.0086	NA
Phenanthrene	---	---	---	---	NA	<0.010	<0.0088	0.026	NA
Pyrene	1,790	22,600	54.5455	---	NA	<0.010	<0.0088	0.057	NA
RCRA Metals (mg/kg)									
Arsenic	0.677	3	0.584	8	6.4	NA	NA	NA	NA
Barium	15,300	100,000	164.8	364	94.8	NA	NA	NA	NA
Cadmium	71.1	985	0.752	1	<0.088	NA	NA	NA	NA
Chromium	---	---	360000	44	25.9	NA	NA	NA	NA
Lead	400	800	27	52	14.7	NA	NA	NA	NA
Mercury	3.13	3.13	0.208	---	0.031	NA	NA	NA	NA
Selenium	391	5840	0.52	---	<1.0	NA	NA	NA	NA
Silver	391	5840	0.8491	---	<0.37	NA	NA	NA	NA

Notes:

Metal values are compared residual contaminant levels if the background threshold values are exceede

Bold values exceed protection of groundwater residual contaminant level.

Boxed values exceed industrial direct contact residual contaminant level.

Underlined values exceed non-industrial direct contact residual contaminant level.

--- - no standard established

J - Results between laboratory limit of detection and limit of quanitification

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - not analyzed

RCRA - resource conservation recovery act

PAHs - polycyclic aromatic hydrocarbons

VOCs - volatile organic compounds

Table 2. Groundwater Analytical Results
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Preventive	Enforcement	TW-1	TW-2	TW-4	MW-1									MW-2								
Date Collected	**Action Limit**	**Standard**	4/14/15	4/14/15	4/14/15	7/27/15	10/27/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18	7/27/15	10/27/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18
Detected VOCs (µg/l)																							
Bromodichloromethane	0.06	0.6	<0.50	<0.50	<0.50	<0.50	<1.2	<1.2	*0.55J*	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2,-Dichloroethene	7		<0.26	<0.26	<0.26	0.94J	0.82J	3.3	0.35J	<0.26	1.1	1.6	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	20	100	<0.26	<0.26	<0.26	0.29J	<0.64	1.1J	<0.26	<0.26	0.34J	0.59J	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene	0.5	5	*1.8*	***10.3***	*3.9*	***241***	***265***	***199***	***28.2***	***11.9***	***43.1***	***72.3***	***16.3***	***13.4***	***13.0***	***12.3***	***20.5***	*2.4*	***9.4***	***9.8***	***9.8***	***8.6***	***7.1***
Toluene	160	800	0.58J	0.57J	0.90J	<0.50	<1.2	<1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	<0.50	<0.50	<0.50	<0.50	<1.2	<1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.53	<0.50	<0.50	4.5	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	0.5	5	<0.20	<0.20	<0.20	<0.20	<0.49	<0.49	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.54	<0.20	<0.20	0.27J	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5	<0.33	0.48J	<0.33	***24.9***	***17***	***76.0***	***7.8***	*1.1*	***24.0***	***37.1***	***2.7***	*3.7*	*0.58J*	0.47J	<0.33	*2.0*	*0.79J*	*0.84J*	*0.95J*	*0.71J*	*0.51J*
PAHs (µg/l)																							
Acenaphthene	---	---	0.11	0.046J	<0.0050	<0.0046	<0.0048	<0.0046	<0.0045	NA	<0.0075	<0.0060	<0.0056	0.0062J	0.013J	<0.0046	<0.0045	0.0070J	<0.0060	<0.0070	<0.0059	<0.0054	<0.0055
Acenaphthylene	---	---	0.021J	0.0085J	<0.0049	<0.0046	<0.0048	<0.0046	<0.0045	NA	<0.0061	<0.0049	<0.0046	0.0066J	<0.0045	<0.0046	<0.0045	<0.0058	<0.0060	<0.0057	<0.0048	<0.0044	0.0084J
Anthracene	600	3,000	0.25	0.059	<0.0040	<0.0038	<0.0039	<0.0038	0.0059J	NA	<0.013	<0.010	<0.0096	0.024J	0.032J	<0.0037	0.0058J	0.080	0.0059J	<0.012	0.067	<0.0093	<0.0094
Benzo(a)anthracene	---	---	0.34	0.097	<0.0051	<0.0048	<0.0050	0.011J	0.017J	NA	<0.0093	<0.0075	0.0072J	0.20	0.091	0.015J	0.041J	0.38	0.063	0.010J	0.027J	0.033J	0.064
Benzo(a)pyrene	0.02	0.2	***0.21***	*0.077*	<0.0044	<0.0041	0.012J	0.0081J	0.019J	NA	0.014J	<0.010	<0.0097	***0.26***	*0.12*	0.0082J	*0.046*	***0.45***	*0.074*	*0.040J*	*0.063*	*0.045J*	*0.078*
Benzo(b)fluoranthene	0.02	0.2	***0.44***	*0.16*	0.0065J	0.0056J	*0.024J*	0.014J	*0.028J*	NA	*0.058*	0.016J	0.018J	***0.51***	*0.19*	0.014J	*0.080*	***0.70***	*0.13*	*0.10*	*0.12*	*0.10*	***0.21***
Benzo(g,h,i)perylene	---	---	0.2	0.071	<0.0035	<0.0033	0.0076J	0.0071J	0.017J	NA	0.023J	<0.0067	0.011J	0.29	0.11	0.0066J	0.042J	0.37	0.084	0.056	0.077	0.060	0.12
Benzo(k)fluoranthene	---	---	0.19	0.061	<0.0056	<0.0053	0.0082J	<0.0053	0.013J	NA	0.030J	0.0089J	<0.0069	0.21	0.077	0.0059J	0.030J	0.26	0.051J	0.063	0.086	0.042	0.11
Chrysene	0.02	0.2	***0.52***	*0.16*	0.0072J	*0.034J*	*0.021J*	0.012J	*0.024J*	NA	*0.065J*	*0.020J*	0.014J	***0.46***	***0.21***	0.013J	*0.068*	***0.56***	*0.11*	*0.14*	*0.15*	*0.089*	***0.22***
Dibenzo(a,h)anthracene	---	---	0.023J	<0.0053	<0.0056	<0.0052	<0.0054	<0.0052	0.0054J	NA	<0.012	<0.0099	<0.0092	0.039J	0.017J	<0.0051	0.0066J	0.088	0.013J	<0.012	<0.0097	<0.0089	0.011J
Fluoranthene	80	400	1.7	0.47	0.016J	0.015J	0.042J	0.021J	0.050	NA	0.080	0.042J	0.028J	0.92	0.45	0.031J	0.14	1.1	0.16	0.22	0.27	0.15	0.44
Fluorene	80	400	0.16	0.056	0.0098J	<0.0038	<0.0039	<0.0038	<0.0037	NA	<0.0098	<0.0079	<0.0073	<0.0074	0.013J	<0.0037	<0.0037	0.014J	<0.0049	<0.0092	<0.0077	<0.0071	<0.0072
Indeno(1,2,3-cd)pyrene	---	---	0.14	0.048	<0.0036	<0.0033	0.0053J	0.0053J	0.014J	NA	<0.022	<0.017	<0.016	0.24	0.089	0.0060J	0.032J	0.32	0.068	<0.020	0.060J	0.043J	0.081
1-Methylnaphthalene	---	---	0.033J	0.041J	0.036J	0.0053J	<0.0030	0.0041J	0.0033J	NA	<0.0073	<0.0058	<0.0054	0.0079J	0.0034J	0.0041J	<0.0028	0.0046J	<0.0038	<0.0068	<0.0057	<0.0053	<0.0053
2-Methylnaphthalene	---	---	0.039J	0.048J	0.039J	0.0083J	<0.0027	0.0067J	0.0045J	NA	<0.0060	<0.0049	<0.0045	0.010J	0.0065J	0.0057J	0.0028J	0.0048J	<0.0034	<0.0056	<0.0048	<0.0044	<0.0044
Naphthalene	10	100	0.047J	0.051	0.031J	0.0064J	<0.0044	0.011J	0.014J	NA	<0.023	<0.018	<0.017	0.023J	0.0044J	0.0070J	0.0096J	<0.0053	<0.0055	<0.021	<0.018	<0.016	<0.017
Phenanthrene	---	---	1.6	0.44	0.047J	0.012J	0.019J	0.011J	0.025J	NA	0.019J	<0.014	0.013J	0.22	0.24	0.018J	0.044J	0.61	0.039J	0.056J	0.022J	0.053J	0.12
Pyrene	50	250	1.3	0.37	0.025J	0.010J	0.034J	0.017J	0.039J	NA	0.075	0.034J	0.022J	0.70	0.33	0.028J	0.11	0.98	0.14	0.16	0.21	0.11	0.37
Dissolved RCRA Metals (µg/l)																							
Arsenic	1	10	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA
Barium	400	2,000	94.6	84.9	51.8	81.0	89.8	77.8	63.1	NA	NA	NA	NA	NA	92.9	92.4	77.7	69.1	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA
Chromium	10	100	<2.1	<2.1	<2.1	2.3J	3.3J	2.8J	<2.1	NA	NA	NA	NA	NA	3.2J	2.2J	2.2J	<2.1	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	*3.5J*	NA	NA	NA	NA	NA	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.10	<0.10	<0.10	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA	<6.7	<6.7	7.9J	<6.7	NA	NA	NA	NA	NA
Silver	10	50	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	<2.7	NA	NA	NA	NA	NA	<2.7	<2.7	<2.7	<2.7	NA	NA	NA	NA	NA

Notes:
Bold concentrations exceed NR 140 Wis. Admin. Code enforcement standard.
Italicized concentrations exceed NR 140 Wis. Admin. Code preventive action limit.
--- - no standard established
J - Results between the limit of detection and limit of quantitation
µg/l - micrograms per liter
NA - not analyzed
PAHs - polynuclear aromatic hydrocarbons
RCRA - resource conservation recovery act
VOCs - volatile organic compounds

Table 2. Groundwater Analytical Results
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Preventive	Enforcement	MW-3											MW-4								
Date Collected	Action Limit	Standard	7/27/15	10/27/15	1/27/16	4/27/16	7/27/16	10/28/16	12/1/16	1/19/17	4/19/17	3/29/18	3/29/18 DUP	7/27/15	10/27/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18
Detected VOCs (µg/l)																						
Bromodichloromethane	0.06	0.6	<2.0	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2,-Dichloroethene	7		<1.0	<1.0	<1.0	<1.0	0.29J	1.3J	<1.0	<1.0	<1.0	<1.0	<0.26	<0.26	<0.26	<0.26	0.47J	<0.26	0.29J	<0.26	0.54J	<0.26
trans-1,2-Dichloroethene	20	100	<1.0	<1.0	<1.0	<1.0	<0.26	<1.0	<1.0	<1.0	<1.0	<1.0	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene	0.5	5	***269***	***191***	***189***	***173***	***145***	***662***	***745***	***749***	***579***	***385***	***407***	***19.8***	***32.9***	***24.4***	***96.9***	***47.1***	***60.9***	***23.3***	***95***	***28.4***
Toluene	160	800	<2.0	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	<2.0	<2.0	<2.0	<2.0	<0.50	<2.0	<2.0	<2.0	<2.0	<2.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	0.5	5	<0.79	<0.79	<0.79	<0.79	<0.20	<0.79	<0.79	<0.79	<0.79	<0.79	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5	<1.3	<1.3	<1.3	<1.3	*0.59J*	<1.3	<1.3	<1.3	<1.3	<1.3	<0.33	*0.77J*	*0.86J*	*0.90J*	*0.69J*	0.39J	0.42J	0.37J	0.48J	0.44J
PAHs (µg/l)																						
Acenaphthene	---	---	<0.0045	<0.0046	<0.0046	<0.0052	NA	<0.0067	NA	<0.0063	<0.0055	<0.0057	NA	<0.0045	<0.0046	<0.0047	<0.0048	NA	<0.0064	<0.0065	<0.0055	<0.0057
Acenaphthylene	---	---	<0.0045	<0.0045	<0.0046	<0.0052	NA	<0.0055	NA	<0.0052	0.0065J	<0.0047	NA	<0.0045	<0.0046	<0.0047	<0.0048	NA	<0.0052	<0.0053	<0.0045	<0.0047
Anthracene	600	3,000	<0.0036	<0.0037	<0.0038	<0.0043	NA	0.018J	NA	0.28	0.019J	<0.0099	NA	<0.0036	<0.0038	<0.0038	0.0048J	NA	<0.011	<0.011	<0.0094	<0.0099
Benzo(a)anthracene	---	---	0.022J	0.021J	<0.0048	0.021J	NA	0.085	NA	0.12	0.14	0.073	NA	0.013J	<0.0048	0.013J	<0.0050	NA	<0.0079	<0.0080	0.019J	0.020J
Benzo(a)pyrene	0.02	0.2	*0.024J*	*0.024J*	0.0053J	*0.030J*	NA	*0.094*	NA	***0.45***	***0.24***	*0.13*	NA	0.011J	<0.0041	0.0076J	0.0079J	NA	0.015J	<0.011	*0.028J*	0.011J
Benzo(b)fluoranthene	0.02	0.2	*0.038J*	*0.058*	0.0077J	*0.065*	NA	***0.23***	NA	***0.66***	***0.51***	***0.25***	NA	*0.022J*	0.0065J	0.012J	0.010J	NA	*0.039*	*0.022J*	*0.053*	*0.031*
Benzo(g,h,i)perylene	---	---	0.024J	0.026J	0.0054J	0.039J	NA	0.14	NA	0.38	0.30	0.15	NA	0.016J	<0.0033	0.0078J	0.0078J	NA	0.019J	0.011J	0.029J	0.016J
Benzo(k)fluoranthene	---	---	0.019J	0.017J	<0.0053	0.020J	NA	0.12	NA	0.33	0.22	0.14	NA	0.0077J	<0.0053	<0.0053	<0.0055	NA	0.027J	0.015J	0.020J	0.019J
Chrysene	0.02	0.2	*0.063*	*0.047*	0.0050J	*0.049J*	NA	***0.23***	NA	***0.68***	***0.39***	***0.27***	NA	0.018J	0.0080J	0.011J	0.0083J	NA	*0.047J*	*0.021J*	*0.043J*	*0.045J*
Dibenzo(a,h)anthracene	---	---	<0.0050	<0.0051	<0.0052	0.0065J	NA	0.019J	NA	0.051J	0.050	0.017J	NA	<0.0050	<0.0052	<0.0052	<0.0054	NA	<0.011	<0.011	<0.0090	<0.0095
Fluoranthene	80	400	0.07	0.078	0.0098J	0.10	NA	0.31	NA	1.1	0.73	0.48	NA	0.048	0.013J	0.021J	0.018J	NA	0.062	0.031J	0.091	0.066
Fluorene	80	400	<0.0036	<0.0037	0.0049J	<0.0043	NA	<0.0089	NA	<0.0083	0.0075J	<0.0075	NA	<0.0036	<0.0038	<0.0038	<0.0039	NA	<0.0084	<0.0085	<0.0072	<0.0075
Indeno(1,2,3-cd)pyrene	---	---	0.020J	0.017J	0.0053J	0.033J	NA	0.11	NA	0.29	0.24	0.10	NA	0.012J	<0.0033	0.0055J	0.0057J	NA	<0.019	<0.019	0.023J	<0.017
1-Methylnaphthalene	---	---	0.0040J	<0.0028	0.0038J	<0.0033	NA	<0.0066	NA	<0.0061	<0.0054	<0.0056	NA	0.0047J	<0.0029	<0.0029	0.0089J	NA	<0.0062	<0.0063	<0.0053	<0.0056
2-Methylnaphthalene	---	---	0.0050J	<0.0025	0.0058J	0.0068J	NA	<0.0054	NA	<0.0051	<0.0045	<0.0046	NA	0.010J	<0.0026	0.0040J	0.011J	NA	<0.0052	<0.0052	<0.0044	<0.0046
Naphthalene	10	100	0.0052J	0.0050J	0.012J	<0.0048	NA	<0.020	NA	<0.019	<0.017	<0.017	NA	<0.0041	<0.0042	0.0083J	0.011J	NA	<0.019	<0.020	<0.017	<0.017
Phenanthrene	---	---	0.036J	0.033J	0.0077J	0.042J	NA	0.063J	NA	0.088	0.23	0.14	NA	0.034J	0.0098J	0.011J	0.013J	NA	0.024J	<0.015	0.046J	0.040J
Pyrene	50	250	0.055	0.063	0.0099J	0.082	NA	0.24	NA	0.89	0.48	0.41	NA	0.044J	0.014J	0.017J	0.022J	NA	0.045	0.027J	0.067	0.059
Dissolved RCRA Metals (µg/l)																						
Arsenic	1	10	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA	NA	NA	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA
Barium	400	2,000	71.4	77.9	75.2	76.3	NA	NA	NA	NA	NA	NA	NA	67.2	69.6	69.6	58.7	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	NA	NA	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA
Chromium	10	100	3.5J	2.9J	3.3J	<2.1	NA	NA	NA	NA	NA	NA	NA	<2.1	<2.1	<2.1	<2.1	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA	NA	NA	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA	NA	NA	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA
Silver	10	50	<2.7	<2.7	<2.7	<2.7	NA	NA	NA	NA	NA	NA	NA	<2.7	2.9J	<2.7	<2.7	NA	NA	NA	NA	NA

Notes:
Bold concentrations exceed NR 140 Wis. Admin. Code enforcement standard.
Italicized concentrations exceed NR 140 Wis. Admin. Code preventive action limit.
--- - no standard established
J - Results between the limit of detection and limit of quantitation
µg/l - micrograms per liter
NA - not analyzed
PAHs - polynuclear aromatic hydrocarbons
RCRA - resource conservation recovery act
VOCs - volatile organic compounds

Table 2. Groundwater Analytical Results
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Preventive	Enforcement	MW-5									MW-6								
Date Collected	**Action Limit**	**Standard**	7/27/15	10/27/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18	10/27/15	11/30/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18
Detected VOCs (µg/l)																				
Bromodichloromethane	0.06	0.6	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2,-Dichloroethene	7		<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
trans-1,2-Dichloroethene	20	100	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene	0.5	5	*2.0*	*1.9*	*1.7*	*1.7*	*2.5*	*3.3*	***5.3***	*3.5*	*3.1*	*3.1*	*4.1*	***5.2***	*3.9*	*4.7*	***5.2***	***5.3***	*4.6*	*3.1*
Toluene	160	800	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	0.5	5	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5	<0.33	<0.33	<0.33	<0.33	*0.71J*	*0.76J*	*0.76J*	0.45J	0.46J	*2.0*	*2.0*	*2.0*	*1.6*	*1.0*	*1.1*	*1.2*	*1.0*	*1.7*
PAHs (µg/l)																				
Acenaphthene	---	---	<0.0045	<0.0049	<0.0047	<0.0054	NA	0.053	<0.0062	<0.0056	<0.0061	<0.0050	NA	<0.0046	0.0065J	NA	<0.0063	<0.0061	<0.0055	0.015J
Acenaphthylene	---	---	<0.0045	<0.0049	<0.0047	<0.0054	NA	0.012J	<0.0051	<0.0046	<0.0050	<0.0049	NA	<0.0046	<0.0056	NA	<0.0052	<0.0050	<0.0045	0.10
Anthracene	600	3,000	0.020J	0.0054J	<0.0038	<0.0044	NA	0.55	0.047J	<0.0097	<0.010	<0.0040	NA	<0.0038	<0.0046	NA	<0.011	<0.010	<0.0094	0.045J
Benzo(a)anthracene	---	---	0.10	0.025J	0.020J	0.016J	NA	1.6	0.0093J	0.031J	0.012J	0.011J	NA	<0.0048	<0.0058	NA	<0.0079	<0.0076	<0.0068	0.085
Benzo(a)pyrene	0.02	0.2	0.14	*0.025J*	*0.026J*	*0.021J*	NA	***1.8***	*0.021J*	*0.050*	0.011J	0.0053J	NA	<0.0041	<0.0050	NA	<0.011	<0.011	<0.0095	*0.050J*
Benzo(b)fluoranthene	0.02	0.2	***0.23***	*0.053*	*0.036J*	*0.039J*	NA	2.7	*0.057*	*0.10*	0.031	0.010J	NA	<0.0050	<0.0060	NA	<0.0060	0.0085J	0.0056J	*0.085*
Benzo(g,h,i)perylene	---	---	0.14	0.022J	0.020J	0.025J	NA	1.5	0.034J	0.060	0.016J	0.0047J	NA	<0.0033	0.0042J	NA	<0.0071	0.011J	<0.0061	0.044
Benzo(k)fluoranthene	---	---	0.086	0.021J	0.017J	0.014J	NA	1.1	0.043	0.041	0.017J	<0.0056	NA	<0.0053	<0.0064	NA	<0.0079	0.021J	<0.0068	0.053
Chrysene	0.02	0.2	***0.20***	*0.046J*	*0.035J*	*0.032J*	NA	***2.3***	*0.071*	*0.088*	0.035J	0.010J	NA	<0.0040	<0.0048	NA	<0.014	0.017J	<0.012	*0.14*
Dibenzo(a,h)anthracene	---	---	0.019J	<0.0055	<0.0053	<0.0060	NA	0.33	<0.010	<0.0093	<0.010	<0.0056	NA	<0.0052	<0.0063	NA	<0.010	<0.010	<0.0090	<0.0098
Fluoranthene	80	400	0.48	0.097	0.064	0.075	NA	5.4	0.14	0.16	0.072	0.020J	NA	<0.0088	<0.011	NA	<0.011	0.042J	<0.0096	0.025J
Fluorene	80	400	0.0095J	<0.0040	<0.0038	<0.0044	NA	0.091	<0.0081	<0.0074	<0.0080	<0.0040	NA	<0.0038	<0.0046	NA	<0.0083	<0.0080	<0.0072	0.023J
Indeno(1,2,3-cd)pyrene	---	---	0.11	0.018J	0.018J	0.018J	NA	1.3	0.023J	0.047J	<0.018	<0.0036	NA	<0.0033	<0.0041	NA	<0.018	<0.018	<0.016	0.030J
1-Methylnaphthalene	---	---	0.0053J	0.0035J	<0.0029	0.016J	NA	<0.0057	<0.0060	<0.0055	0.0081J	<0.0031	NA	0.0052J	0.018J	NA	<0.0061	<0.0059	<0.0053	0.011J
2-Methylnaphthalene	---	---	0.0082J	0.0044J	<0.0026	0.0045J	NA	<0.0047	<0.0050	<0.0045	0.0085J	<0.0028	NA	0.0091J	<0.0031	NA	<0.0051	0.0050J	0.0044J	0.0094J
Naphthalene	10	100	0.0080J	0.0072J	0.0063J	<0.0049	NA	<0.018	<0.019	<0.017	0.027J	<0.0045	NA	0.017J	0.0057J	NA	<0.019	<0.018	<0.017	0.021J
Phenanthrene	---	---	0.21	0.054	0.020J	0.032J	NA	2.2	<0.014	0.073	0.041J	0.015J	NA	0.011J	<0.0087	NA	<0.014	<0.014	<0.012	0.054J
Pyrene	50	250	0.35	0.072	0.049	0.051J	NA	3.7	0.11	0.12	0.067	0.017J	NA	0.010J	<0.0087	NA	<0.0080	0.023J	<0.0069	0.044
Dissolved RCRA Metals (µg/l)																				
Arsenic	1	10	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA	<7.2	NA	<7.2	<7.2	NA	NA	NA	NA	NA
Barium	400	2,000	81.5	79.8	72.8	71.4	NA	NA	NA	NA	NA	70	NA	71.4	87.9	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	<0.60	NA	<0.60	<0.60	NA	NA	NA	NA	NA
Chromium	10	100	<2.1	<2.1	2.8J	<2.1	NA	NA	NA	NA	NA	<2.1	NA	<2.1	<2.1	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	<3.0	NA	<3.0	<3.0	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA	0.11J	NA	<0.10	<0.18	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA	<6.7	NA	<6.7	<6.7	NA	NA	NA	NA	NA
Silver	10	50	<2.7	<2.7	<2.7	<2.7	NA	NA	NA	NA	NA	3.0J	NA	<2.7	<2.7	NA	NA	NA	NA	NA

Notes:
Bold concentrations exceed NR 140 Wis. Admin. Code enforcement standard.
Italicized concentrations exceed NR 140 Wis. Admin. Code preventive action limit.
--- - no standard established
J - Results between the limit of detection and limit of quantitation
µg/l - micrograms per liter
NA - not analyzed
PAHs - polynuclear aromatic hydrocarbons
RCRA - resource conservation recovery act
VOCs - volatile organic compounds

Table 2. Groundwater Analytical Results
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

PARAMETERS	Preventive	Enforcement	MW-7								
Date Collected	Action Limit	Standard	10/27/15	11/30/15	1/27/16	4/27/16	7/27/16	10/28/16	1/19/17	4/19/17	3/29/18
Detected VOCs (µg/l)											
Bromodichloromethane	0.06	0.6	<5.0	<2.5	<2.5	<2.5	<2.0	<0.50	<0.50	<0.50	<0.50
cis-1,2,-Dichloroethene	7		*34.9*	*28.6*	***98.3***	*13.9*	<1.0	5.5	4.9	4.2	*7.0*
trans-1,2-Dichloroethene	20	100	<2.6	<1.3	2.0J	<1.3	<1.0	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene	0.5	5	***412***	***430***	***600***	***360***	***455***	***205***	***222***	***146***	***217***
Toluene	160	800	<5.0	<2.5	<2.5	<2.5	<2.0	<0.50	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	<5.0	<2.5	<2.5	<2.5	<2.0	<0.50	<0.50	<0.50	<0.50
1,1,2-Trichloroethane	0.5	5	<2.0	<0.99	<0.99	<0.99	<0.79	<0.20	<0.20	<0.20	<0.20
Trichloroethene	0.5	5	***7.8J***	***7.2***	***12.8***	***7.7***	<1.3	*1.5*	*1.6*	*1.2*	*2.8*
PAHs (µg/l)											
Acenaphthene	---	---	<0.0045	NA	<0.0045	<0.0046	NA	<0.0067	<0.0059	<0.0057	<0.0055
Acenaphthylene	---	---	<0.0045	NA	<0.0045	<0.0046	NA	<0.0055	<0.0048	<0.0047	<0.0045
Anthracene	600	3,000	<0.0036	NA	<0.0037	<0.0038	NA	<0.012	<0.010	<0.0099	<0.0095
Benzo(a)anthracene	---	---	<0.0046	NA	<0.0047	<0.0048	NA	<0.0084	<0.0073	<0.0071	0.0087J
Benzo(a)pyrene	0.02	0.2	<0.0040	NA	<0.0040	<0.0041	NA	<0.012	<0.010	<0.0099	<0.0096
Benzo(b)fluoranthene	0.02	0.2	<0.0048	NA	<0.0048	<0.0050	NA	<0.0064	<0.0056	<0.0054	0.014J
Benzo(g,h,i)perylene	---	---	<0.0032	NA	<0.0032	0.0048J	NA	<0.0075	<0.0066	<0.0064	0.0094J
Benzo(k)fluoranthene	---	---	<0.0051	NA	<0.0051	<0.0053	NA	<0.0084	<0.0073	<0.0071	0.010J
Chrysene	0.02	0.2	<0.0038	NA	<0.0039	<0.0040	NA	<0.014	<0.013	<0.012	0.017J
Dibenzo(a,h)anthracene	---	---	<0.0050	NA	<0.0051	<0.0052	NA	<0.011	<0.0097	<0.0095	<0.0091
Fluoranthene	80	400	<0.0085	NA	<0.0085	<0.0088	NA	<0.012	<0.010	<0.010	0.020J
Fluorene	80	400	<0.0036	NA	<0.0037	<0.0038	NA	<0.0089	<0.0077	<0.0075	<0.0072
Indeno(1,2,3-cd)pyrene	---	---	<0.0032	NA	<0.0033	<0.0033	NA	<0.020	<0.017	<0.017	<0.016
1-Methylnaphthalene	---	---	<0.0028	NA	0.0052J	<0.0029	NA	<0.0066	<0.0057	<0.0056	<0.0054
2-Methylnaphthalene	---	---	<0.0025	NA	0.0054J	0.0035J	NA	<0.0054	<0.0048	<0.0046	<0.0045
Naphthalene	10	100	<0.0041	NA	0.014J	<0.0042	NA	<0.020	<0.018	<0.017	<0.017
Phenanthrene	---	---	0.0075J	NA	0.0088J	<0.0072	NA	<0.015	<0.013	<0.013	<0.013
Pyrene	50	250	0.0070J	NA	0.0073J	0.0084J	NA	<0.0085	<0.0074	<0.0072	0.021J
Dissolved RCRA Metals (µg/l)											
Arsenic	1	10	<7.2	NA	<7.2	<7.2	NA	NA	NA	NA	NA
Barium	400	2,000	50.2	NA	50.8	36.3	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	NA	<0.60	<0.60	NA	NA	NA	NA	NA
Chromium	10	100	<2.1	NA	<2.1	<2.1	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	NA	<3.0	<3.0	NA	NA	NA	NA	NA
Mercury	0.2	2	0.11J	NA	<0.10	<0.18	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	NA	<6.7	<6.7	NA	NA	NA	NA	NA
Silver	10	50	<2.7	NA	<2.7	<2.7	NA	NA	NA	NA	NA

Notes:
Bold concentrations exceed NR 140 Wis. Admin. Code enforcement standard.
Italicized concentrations exceed NR 140 Wis. Admin. Code preventive action limit.
--- - no standard established
J - Results between the limit of detection and limit of quantitation
µg/l - micrograms per liter
NA - not analyzed
PAHs - polynuclear aromatic hydrocarbons
RCRA - resource conservation recovery act
VOCs - volatile organic compounds

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air
Sample I.D.					KVP-1	IA-1	KVP-2	IA-2	KVP-3	IA-3
Duration of Sample Collection (hrs)					0.5	24	0.5	24	0.5	24
Date Collected					8/22/2016	9/27/2016	8/22/2016	9/27/2016	8/22/2016	9/27/2016
Detected VOCs (ug/m^3)										
Acetone	14,000,000	140,000	4,620,000	140,000	173	10.9	208	7.4	315	14.1
Benzene	1,600	16	528	16	1.8	0.71	5.3	0.74	5.8	0.96
Bromomethane	2,200	22	726	22	<0.60	<0.48	<0.60	<0.48	1.3J	<0.50
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	9.6	3.3J	16.0	<0.35	10.5	9.0
Carbon disulfide	310,000	3,100	102,300	3,100	2.0	<0.16	0.83J	<0.16	2.0	<0.16
Carbon tetrachloride	2,000	20	660	20	0.81J	2.0J	<0.37	2.0J	0.73J	2.0J
Chloroform	530	5.3	175	5.3	2.2	<0.29	14.5	<0.29	1.6	<0.31
Chloromethane	39,000	390	12,870	390	<0.21	<0.17	0.76J	<0.17	<0.21	<0.17
Cyclohexane	2,600,000	26,000	858,000	26,000	5.4	0.82J	8.2	<0.49	14.8	1.0J
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.98	<0.79	<0.98	<0.79	<0.98	<0.82
1,3-Dichlorobenzene	--	---	--	---	<1.0	<0.82	<1.0	4.6J	<1.0	<0.85
1,4-Dichlorobenzene	1,100	11	363	11	41.8	60.5	11.9	3.3	5.3J	23.9
Dichlorodifluoromethane	44,000	440	14,520	440	3.1	4.3	28.4	1.9	3.0	1.7
1,1-Dichloroethane	7,700	77	2,541	77	<0.30	<0.24	2.3	<0.24	<0.30	<0.25
1,2-Dichloroethane	470	4.7	155	4.7	<0.39	<0.32	2.4	<0.32	1.4J	<0.33
1,1-Dichloroethene	88,000	880	29,040	880	<0.46	<0.37	3.7	<0.37	<0.46	<0.38
cis-1,2-Dichloroethene	--	---	--	---	100	<0.38	13,800J	0.91J	5.1	<0.40
trans-1,2-Dichloroethene	--	---	--	---	4.0	<0.40	29.9	<0.60	<0.74	<0.62
Ethanol	--	---	--	---	49.1	23.8	69.1	<0.41	93.5	53.1
Ethyl acetate	31,000	310	10,230	310	2.6J	1.6	4.4	<0.54	3.4J	1.2
Ethylbenzene	4,900	49	1,617	49	13.2	1.5	15.1	1.8	22.5	1.5
4-Ethyltoluene	--	---	--	---	13.0	2.1J	13.8	<0.29	16.0	2.1J
N-Heptane	--	---	--	---	4.1	1.0J	5.3	0.83J	11.2	1.4
Hexachloro-1,3-butadiene	--	---	--	---	4.2	<1.0	<1.2	<1.0	<1.2	<1.0
n-Hexane	310,000	3,100	102,300	3,100	2.2	1.9	4.4	1.4	10.3	2.1
Methylene Chloride	260,000	2,600	85,800	2,600	7.5	16.9	41.5	5.1J	3.5J	10.2
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	16.6	<0.34	14.6	<0.34	17.0	<0.35
Naphthalene	360	3.6	119	3.6	154	4.1	112	3.8J	102	4.9
2-Propanol	--	---	--	---	14.3	7.3	12.6	<0.37	20.5	7.6
Propylene	1,300,000	13,000	429,000	13,000	<0.26	<0.21	<0.26	<0.21	<0.26	<0.22
Styrene	440,000	4,400	145,200	4,400	6.5	3.0J	4.9	3.3J	4.6	19.6
Tetrachloroethene	18,000	180	5,940	180	116	86	**404,000**	306	**20,400**	119
Tetrahydrofuran	--	---	--	---	6.1	<0.18	9.2	<0.18	10.9	<0.19

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					**Sub-Slab**	**Indoor Air**	**Sub-Slab**	**Indoor Air**	**Sub-Slab**	**Indoor Air**
Sample I.D.					**KVP-1**	**IA-1**	**KVP-2**	**IA-2**	**KVP-3**	**IA-3**
Duration of Sample Collection (hrs)					**0.5**	**24**	**0.5**	**24**	**0.5**	**24**
Date Collected					**8/22/2016**	**9/27/2016**	**8/22/2016**	**9/27/2016**	**8/22/2016**	**9/27/2016**
Detected VOCs (ug/m^3)										
Toluene	2,200,000	22,000	726,000	22,000	137	9.7	149	4.0	596	39.4
1,2,4-Trichlorobenzene	880	8.8	290	8.8	10.1	<1.4	9.5	<1.4	<1.7	<1.5
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	3.9	<0.38	24.9	<0.38	5.9	<0.40
Trichloroethene	880	8.8	290	8.8	257	3.0	**9,710J**	1.5	60.0	1.2
Trichlorofluoromethane	310,000	3,100	102,300	3,100	2.4	1.4J	2.5	1.4J	2.7	1.3J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	72.0	0.78J	8,530J	1.5J	1.2J	0.71J
1,2,4-Trimethylbenzene	3,100	31	1,023	31	66.7	3.1J	49.0	<0.19	59.5	2.6J
1,3,5-Trimethylbenzene	--	---	--	---	15.6	2.1J	13.9	1.8J	16.1	1.8J
Vinyl Acetate	88,000	880	29,040	880	3.1J	0.70J	3.8	<0.51	5.3	<0.53
Vinyl Chloride	2,800	28	924	28	<0.37	<0.30	5.4	<0.30	<0.37	<0.31
m&p-Xylene	44,000	440	14,520	440	48.0	3.4	49.5	2.8	75.3	3.7
o-Xylene	44,000	440	14,520	440	23.0	1.4	23.7	<0.54	32.6	1.6

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), December 2015

All vapor samples collected into 6 liter Summa canisters

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					Sub-Slab	Indoor Air	Sub-Slab	Indoor Air	Sub-Slab	Indoor Air
Sample I.D.					KVP-4	IA-4	KVP-5	IA-5	KVP-6	IA-6
Duration of Sample Collection (hrs)					0.5	24	0.5	24	0.5	24
Date Collected					3/16/2017	3/21/2017	3/16/2017	3/21/2017	3/16/2017	3/21/2017
Detected VOCs (ug/m^3)										
Acetone	14,000,000	140,000	4,620,000	140,000	30.1	140	35.1	81.5	38.0	111
Benzene	1,600	16	528	16	4.3	1.8	31.3	2.1	3.8	2.3
Bromomethane	2,200	22	726	22	<0.62	<0.46	<0.62	<0.46	<0.66	<0.45
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	14.5	65.0	13.5	36.3	10	52.1
Carbon disulfide	310,000	3,100	102,300	3,100	1.2J	<0.15	<0.20	<0.15	<0.21	<0.15
Carbon tetrachloride	2,000	20	660	20	<0.39	<0.29	<0.39	<0.29	<0.41	<0.28
Chloroform	530	5.3	175	5.3	2.6	<0.28	0.56J	<0.28	<0.40	<0.27
Chloromethane	39,000	390	12,870	390	<0.22	<0.16	0.33J	<0.16	<0.23	<0.16
Cyclohexane	2,600,000	26,000	858,000	26,000	4.4	3.1	6.8	3.3	12.1	3.1
1,2-Dichlorobenzene	88,000	880	29,040	880	<1.0	2.2J	<1.0	<0.76	<1.1	<0.74
1,3-Dichlorobenzene	--	---	--	---	<1.1	<0.79	<1.1	<0.79	<1.1	<0.76
1,4-Dichlorobenzene	1,100	11	363	11	31.1	231	17.6	77.7	4.9J	92.7
Dichlorodifluoromethane	44,000	440	14,520	440	1.3J	3.8	1.7J	2.7	1.6J	3.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.23	<0.32	<0.23	<0.33	<0.23
1,2-Dichloroethane	470	4.7	155	4.7	<0.41	<0.31	<0.41	<0.31	<0.43	<0.30
1,1-Dichloroethene	88,000	880	29,040	880	<0.48	<0.35	<0.48	<0.35	<0.50	<0.34
cis-1,2-Dichloroethene	--	---	--	---	41.1	<0.37	5.8	<0.37	<0.52	<0.35
trans-1,2-Dichloroethene	--	---	--	---	3.3	<0.57	<0.77	<0.57	<0.81	<0.55
Ethanol	--	---	--	---	51.6	414	56.3	145	92.6	172
Ethyl acetate	31,000	310	10,230	310	<0.70	6.1	5.1	4.4	1.1J	4.9
Ethylbenzene	4,900	49	1,617	49	86.4	5.4	131	3.4	221	4.3
4-Ethyltoluene	--	---	--	---	10.7	3.1J	11.5	2.4J	16.0	2.8J
N-Heptane	--	---	--	---	6.3	6.3	7.4	7.6	9.5	6.9
Hexachloro-1,3-butadiene	--	---	--	---	4.3J	<0.97	<1.3	<0.97	<1.4	<0.94
n-Hexane	310,000	3,100	102,300	3,100	4.5	13.0	5.8	<0.53	8.3	<0.51
Methylene Chloride	260,000	2,600	85,800	2,600	14.8	429	10	85.1	10.3	126
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.44	<0.32	1.1J	<0.32	1.7J	<0.31
Naphthalene	360	3.6	119	3.6	15.0	<0.45	17.1	<0.45	11.7	<0.44
2-Propanol	--	---	--	---	4.5J	23.6	4.8J	12.7	4.8J	14.2
Propylene	1,300,000	13,000	429,000	13,000	<0.27	<0.20	<0.27	<0.20	<0.29	71.3
Styrene	440,000	4,400	145,200	4,400	10.5	7.8	11.6	7.4	4.4	8.9
Tetrachloroethene	18,000	180	5,940	180	**32,100**	152	7,580	107	214	92.7
Tetrahydrofuran	--	---	--	---	5.0	5.9	5.8	4.2	7.4	5.1

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					**Sub-Slab**	**Indoor Air**	**Sub-Slab**	**Indoor Air**	**Sub-Slab**	**Indoor Air**
Sample I.D.					**KVP-4**	**IA-4**	**KVP-5**	**IA-5**	**KVP-6**	**IA-6**
Duration of Sample Collection (hrs)					**0.5**	**24**	**0.5**	**24**	**0.5**	**24**
Date Collected					**3/16/2017**	**3/21/2017**	**3/16/2017**	**3/21/2017**	**3/16/2017**	**3/21/2017**
Detected VOCs (ug/m^3)										
Toluene	2,200,000	22,000	726,000	22,000	153	306	117	135	94.3	193
1,2,4-Trichlorobenzene	880	8.8	290	8.8	6.3J	<1.4	<1.8	<1.4	<1.9	<1.3
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	6.8	<0.37	<0.50	<0.37	<0.52	<0.36
Trichloroethene	880	8.8	290	8.8	95.9	38.1	29.6	9.7	<0.59	14.4
Trichlorofluoromethane	310,000	3,100	102,300	3,100	<0.27	<0.20	1.0J	<0.20	<0.28	1.4J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	344	1.1J	197	0.88J	0.85J	0.72J
1,2,4-Trimethylbenzene	3,100	31	1,023	31	31.4	8.1	31.7	6.1	41.0	6.5
1,3,5-Trimethylbenzene	--	---	--	---	6.9	2.9J	7.2	2.5J	9.8	2.7J
Vinyl Acetate	88,000	880	29,040	880	1.1J	<0.49	3.2	2.0	<0.70	2.2
Vinyl Chloride	2,800	28	924	28	<0.39	<0.29	<0.39	<0.29	<0.41	<0.28
m&p-Xylene	44,000	440	14,520	440	52.0	19.9	54.6	12.5	79.6	16.1
o-Xylene	44,000	440	14,520	440	22.8	5.4	24.3	3.8	35.6	4.7

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), December 2015

All vapor samples collected into 6 liter Summa canisters

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					Sub-Slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					KVP-7	IA-7	IA-8	IA-9	IA-10	IA-11
Duration of Sample Collection (hrs)					0.5	24	8	8	8	8
Date Collected					3/16/2017	3/21/2017	1/16/2018	1/16/2018	1/16/2018	1/16/2018
Detected VOCs (ug/m^3)										
Acetone	14,000,000	140,000	4,620,000	140,000	388	97.8	139	39.5	27.6	46.1
Benzene	1,600	16	528	16	6.5	1.9	1.6	1.2	1.3J	1.4
Bromomethane	2,200	22	726	22	<0.54	<0.46	<0.32	<0.32	<0.52	<0.33
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	61.4	28.7	<0.31	13.2	8.5	19.3
Carbon disulfide	310,000	3,100	102,300	3,100	1.6	<0.15	<0.28	<0.28	<0.45	<0.28
Carbon tetrachloride	2,000	20	660	20	<0.34	<0.29	<0.49	<0.49	<0.80	<0.50
Chloroform	530	5.3	175	5.3	<0.33	<0.28	<0.36	<0.36	<0.58	<0.36
Chloromethane	39,000	390	12,870	390	<0.19	<0.16	1.3	0.79	0.60J	0.57J
Cyclohexane	2,600,000	26,000	858,000	26,000	6.6	3.3	1.5	2.2	2.2	2.5
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.90	<0.76	<0.51	<0.51	<0.82	<0.52
1,3-Dichlorobenzene	--	---	--	---	<0.93	<0.79	<0.72	<0.72	<1.2	<0.74
1,4-Dichlorobenzene	1,100	11	363	11	22.8	178	8.2	201	49.8	93.4
Dichlorodifluoromethane	44,000	440	14,520	440	2.1	3.7	2.5	1.8	1.5J	2.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.27	<0.23	<0.33	<0.33	<0.53	<0.33
1,2-Dichloroethane	470	4.7	155	4.7	<0.36	<0.31	<0.31	<0.31	<0.50	<0.31
1,1-Dichloroethene	88,000	880	29,040	880	<0.42	<0.35	<0.37	<0.37	<0.60	<0.37
cis-1,2-Dichloroethene	--	---	--	---	1.2J	<0.37	<0.53	<0.53	<0.86	<0.54
trans-1,2-Dichloroethene	--	---	--	---	<0.67	<0.57	<0.46	<0.46	<0.74	<0.47
Ethanol	--	---	--	---	360	317	56.3	307	59.1	116
Ethyl acetate	31,000	310	10,230	310	39.6	2.5	1.9	2.4	1.9	2.4
Ethylbenzene	4,900	49	1,617	49	118	5.5	0.70J	2.2	1.1J	1.6
4-Ethyltoluene	--	---	--	---	20.3	3.3J	<0.33	0.87J	<0.54	<0.34
N-Heptane	--	---	--	---	6.4	6.2	0.93J	3.4	3.2	3.6
Hexachloro-1,3-butadiene	--	---	--	---	<1.1	<0.97	<1.3	<1.3	<2.2	<1.4
n-Hexane	310,000	3,100	102,300	3,100	9.2	<0.53	142	3.2	3.9	3.8
Methylene Chloride	260,000	2,600	85,800	2,600	34.0	687	488	107	47.0	70.8
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	1.7J	<0.32	<0.55	<0.55	<0.90	<0.56
Naphthalene	360	3.6	119	3.6	146	<0.45	<0.93	<0.93	<1.5	<0.94
2-Propanol	--	---	--	---	815	14.5	<1.9	<1.9	12.0	13.0
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.20	<0.24	<0.24	<0.40	<0.25
Styrene	440,000	4,400	145,200	4,400	11.2	7.2	0.76J	9.6	16.7	12.2
Tetrachloroethene	18,000	180	5,940	180	11,500	122	6.4	92.3	75.0	85.0
Tetrahydrofuran	--	---	--	---	29.9	5.3	<0.42	3.1	2.3	4.6

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation					
Sample Type - Background Air, Indoor Air, or Sub-Slab					Sub-Slab	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					KVP-7	IA-7	IA-8	IA-9	IA-10	IA-11
Duration of Sample Collection (hrs)					0.5	24	8	8	8	8
Date Collected					3/16/2017	3/21/2017	1/16/2018	1/16/2018	1/16/2018	1/16/2018
Detected VOCs (ug/m^3)										
Toluene	2,200,000	22,000	726,000	22,000	129	323	32.9	54.1	32.2	63.6
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.6	<1.4	<1.5	<1.5	<2.4	<1.5
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	6.0	<0.37	<0.53	<0.53	<0.86	<0.54
Trichloroethene	880	8.8	290	8.8	25.6	55.8	1.2J	12.5	5.2	8.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.0J	1.4J	1.4J	1.1J	<1.1	0.98J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	10.2	0.94J	<0.57	<0.57	<0.93	<0.58
1,2,4-Trimethylbenzene	3,100	31	1,023	31	107	8.4	1.8	3.6	1.9J	2.8
1,3,5-Trimethylbenzene	--	---	--	---	20.4	3.0J	<0.64	0.81J	<1.0	<0.65
Vinyl Acetate	88,000	880	29,040	880	2.9	<0.49	<0.26	<0.26	<0.42	<0.26
Vinyl Chloride	2,800	28	924	28	<0.34	<0.29	<0.20	<0.20	<0.32	<0.20
m&p-Xylene	44,000	440	14,520	440	54.7	21.7	2.6J	6.4	3.0J	5.1
o-Xylene	44,000	440	14,520	440	25.0	5.8	0.99J	2.1	1.3J	1.7

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), December 2015

All vapor samples collected into 6 liter Summa canisters

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation	
Sample Type - Background Air, Indoor Air, or Sub-Slab					Background Air	
Sample I.D.					BA-1	BA-2
Duration of Sample Collection (hrs)					8	8
Date Collected					1/16/2018	1/16/2018
Detected VOCs (ug/m^3)						
Acetone	14,000,000	140,000	4,620,000	140,000	4.8	4.7
Benzene	1,600	16	528	16	0.39J	0.41J
Bromomethane	2,200	22	726	22	<0.29	<0.30
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	<0.29	<0.29
Carbon disulfide	310,000	3,100	102,300	3,100	<0.25	<0.26
Carbon tetrachloride	2,000	20	660	20	<0.45	<0.46
Chloroform	530	5.3	175	5.3	<0.33	<0.33
Chloromethane	39,000	390	12,870	390	0.80	0.80
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.32	1.3
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.46	<0.47
1,3-Dichlorobenzene	--	---	--	---	<0.66	<0.67
1,4-Dichlorobenzene	1,100	11	363	11	<0.31	<0.32
Dichlorodifluoromethane	44,000	440	14,520	440	1.5	1.4J
1,1-Dichloroethane	7,700	77	2,541	77	<0.30	<0.31
1,2-Dichloroethane	470	4.7	155	4.7	<0.28	<0.29
1,1-Dichloroethene	88,000	880	29,040	880	<0.33	<0.34
cis-1,2-Dichloroethene	--	---	--	---	<0.48	<0.49
trans-1,2-Dichloroethene	--	---	--	---	<0.42	<0.42
Ethanol	--	---	--	---	2.4J	2.5J
Ethyl acetate	31,000	310	10,230	310	<0.28	<0.28
Ethylbenzene	4,900	49	1,617	49	<0.24	<0.25
4-Ethyltoluene	--	---	--	---	<0.30	<0.31
N-Heptane	--	---	--	---	<0.30	<0.30
Hexachloro-1,3-butadiene	--	---	--	---	<1.2	<1.3
n-Hexane	310,000	3,100	102,300	3,100	<0.47	<0.48
Methylene Chloride	260,000	2,600	85,800	2,600	<2.1	<2.2
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.50	<0.51
Naphthalene	360	3.6	119	3.6	<0.84	<0.86
2-Propanol	--	---	--	---	<1.8	<1.8
Propylene	1,300,000	13,000	429,000	13,000	<0.22	<0.23
Styrene	440,000	4,400	145,200	4,400	<0.24	<0.24
Tetrachloroethene	18,000	180	5,940	180	<0.40	<0.41
Tetrahydrofuran	--	---	--	---	<0.39	<0.39

Table 3. Pre-System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Pressurization System Operation	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Pre-Installation	
Sample Type - Background Air, Indoor Air, or Sub-Slab					Background Air	
Sample I.D.					BA-1	BA-2
Duration of Sample Collection (hrs)					8	8
Date Collected					1/16/2018	1/16/2018
Detected VOCs (ug/m^3)						
Toluene	2,200,000	22,000	726,000	22,000	<0.22	0.63J
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.4	<1.4
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.48	<0.49
Trichloroethene	880	8.8	290	8.8	<0.38	<0.39
Trichlorofluoromethane	310,000	3,100	102,300	3,100	0.96J	<0.60
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.52	<0.53
1,2,4-Trimethylbenzene	3,100	31	1,023	31	<0.24	<0.25
1,3,5-Trimethylbenzene	--	---	--	---	<0.58	<0.59
Vinyl Acetate	88,000	880	29,040	880	<0.23	<0.24
Vinyl Chloride	2,800	28	924	28	<0.18	<0.18
m&p-Xylene	44,000	440	14,520	440	<0.49	<0.50
o-Xylene	44,000	440	14,520	440	<0.52	<0.53

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

Vapor Action Levels based on USEPA Regional Screening Levels (RSLs), December 2015

All vapor samples collected into 6 liter Summa canisters

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Background Air	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Indoor Air
Sample I.D.					**BG-3**	**SS-2**	**SS-4**	**SS-7**	**SS-8**	**IA-5**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	9.8	10.0	8.4	22.7	6.4	98.0
Benzene	1,600	16	528	16	<0.22	<0.28	1.9	0.94	<0.27	0.60
Bromomethane	2,200	22	726	22	<0.33	<0.42	<0.40	<0.40	<0.40	<0.33
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	2.4J	4.1J	3.0J	10.1	3.4J	50.5
Carbon disulfide	310,000	3,100	102,300	3,100	<0.32	5.4	0.67J	<0.38	0.56J	<0.32
Carbon tetrachloride	2,000	20	660	20	<0.62	<0.79	<0.75	<0.75	<0.75	<0.62
Chlorobenzene	22,000	220	7,260	220	<0.40	<0.50	0.83J	<0.48	<0.48	<0.40
Chloroform	530	5.3	175	5.3	<0.28	<0.36	7.6	0.44J	<0.34	<0.28
Chloromethane	39,000	390	12,870	390	0.70	0.67J	<0.27	2.0	<0.27	0.78
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.51	<0.65	<0.62	<0.62	0.68J	2.3J
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.72	<0.91	<0.87	<0.87	<0.87	<0.72
1,3-Dichlorobenzene	--	---	--	---	<0.84	<1.1	<1.0	<1.0	<1.0	<0.84
1,4-Dichlorobenzene	1,100	11	363	11	<1.4	<1.8	<1.8	<1.8	<1.8	19.0
Dichlorodifluoromethane	44,000	440	14,520	440	2.4	2.3	2.1	2.1	2.2	2.2
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.41	<0.39	<0.39	<0.39	<0.32
1,2-Dichloroethane	470	4.7	155	4.7	<0.22	<0.27	<0.26	<0.26	<0.26	<0.22
1,1-Dichloroethene	88,000	880	29,040	880	<0.39	<0.50	<0.48	<0.48	<0.48	<0.39
cis-1,2-Dichloroethene	--	---	--	---	<0.32	<0.40	19.5	<0.38	<0.38	<0.32
trans-1,2-Dichloroethene	--	---	--	---	<0.41	<0.52	2.7	<0.50	<0.50	<0.41
Ethanol	--	---	--	---	4.2	10.3	4.7	5.6	2.2J	175
Ethyl acetate	31,000	310	10,230	310	<0.27	<0.35	<0.33	0.62J	<0.33	4.5
Ethylbenzene	4,900	49	1,617	49	<0.44	3.1	5.2	4.8	3.5	1.3
4-Ethyltoluene	--	---	--	---	<0.82	1.4J	<1.0	3.3J	<1.0	<0.82
N-Heptane	--	---	--	---	<0.55	<0.70	<0.66	<0.66	<0.66	2.8
Hexachloro-1,3-butadiene	--	---	--	---	<2.8	<3.6	<3.4	<3.4	<3.4	<2.8
n-Hexane	310,000	3,100	102,300	3,100	<0.45	<0.57	<0.54	0.60J	<0.54	2.0
2-Hexanone	13,000	130	4,290	130	<1.1	<1.4	<1.3	<1.3	<1.3	<1.1
Methylene Chloride	260,000	2,600	85,800	2,600	2.1J	6.6	4.3J	7.1	8.2	24.3
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.75	<0.95	<0.91	<0.91	<0.91	1.2J
Naphthalene	360	3.6	119	3.6	<1.9	5.5	3.7J	17.6	6.2	<1.9
2-Propanol	--	---	--	---	<1.0	<1.3	<1.2	1.8J	<1.2	6.9
Propylene	1,300,000	13,000	429,000	13,000	<0.21	<0.26	<0.25	1.2	<0.25	<0.21
Styrene	440,000	4,400	145,200	4,400	<0.50	<0.63	<0.60	<0.60	<0.60	33.8
Tetrachloroethene	18,000	180	5,940	180	<0.45	200	**493,000**	13,700	8,850	0.78J
Tetrahydrofuran	--	---	--	---	<0.38	<0.48	<0.46	<0.46	<0.46	<0.38

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Background Air	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Indoor Air
Sample I.D.					**BG-3**	**SS-2**	**SS-4**	**SS-7**	**SS-8**	**IA-5**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Toluene	2,200,000	22,000	726,000	22,000	4.7	2.4	5.1	5.0	2.0	209
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<5.4	<6.8	<6.5	<6.5	<6.5	<5.4
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.44	<0.57	8.2	7.9	<0.54	<0.44
Trichloroethene	880	8.8	290	8.8	<0.37	2.5	**1,260**	33.8	16.1	1.5
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.4J	1.1J	1.1J	1.1J	1.2J	1.2J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.81	<1.0	26.5	<0.99	<0.99	<0.81
1,2,4-Trimethylbenzene	3,100	31	1,023	31	<0.65	11.0	4.4	15.3	3.2	1.1J
1,3,5-Trimethylbenzene	--	---	--	---	<0.57	2.7	1.2J	4.4	0.94J	<0.57
Vinyl Acetate	88,000	880	29,040	880	<0.39	<0.49	<0.47	<0.47	<0.47	<0.39
Vinyl Bromide	380	3.8	125	3.8	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2,800	28	924	28	<0.18	<0.23	<0.22	<0.22	<0.22	<0.18
m&p-Xylene	44,000	440	14,520	440	<1.0	15.1	21.2	20.8	14.6	4.2
o-Xylene	44,000	440	14,520	440	<0.50	5.7	6.4	9.0	4.5	1.3

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

All vapor samples collected into 6 liter Summa canisters

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-9**	**IA-12**	**IA-12**	**IA-13**	**IA-14**	**IA-14**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	68.4	70.8	60.4	63.3	97.2	102
Benzene	1,600	16	528	16	0.37J	1.3	0.35J	1.3	2.3	0.76
Bromomethane	2,200	22	726	22	<0.34	<0.44	<0.34	<0.32	<0.32	<0.32
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	38.7	19.7	33.3	19.5	19.5	48.6
Carbon disulfide	310,000	3,100	102,300	3,100	<0.33	<0.38	<0.33	<0.28	<0.28	<0.30
Carbon tetrachloride	2,000	20	660	20	<0.64	<0.67	<0.64	0.51J	0.59J	<0.60
Chlorobenzene	22,000	220	7,260	220	<0.41	<0.38	<0.41	<0.28	<0.28	<0.38
Chloroform	530	5.3	175	5.3	<0.29	<0.49	<0.29	<0.36	<0.36	<0.27
Chloromethane	39,000	390	12,870	390	0.75	<0.28	0.73	<0.21	1.4	0.91
Cyclohexane	2,600,000	26,000	858,000	26,000	0.99J	2.5	0.91J	2.5	6.0	1.8J
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.74	2.3J	<0.74	2.3	<0.51	<0.69
1,3-Dichlorobenzene	--	---	--	---	<0.87	<0.99	<0.87	<0.72	<0.72	<0.81
1,4-Dichlorobenzene	1,100	11	363	11	14.8	211	13.7	226	163	38.3
Dichlorodifluoromethane	44,000	440	14,520	440	2.2	3.6	2.2	3.4	3.1	2.3
1,1-Dichloroethane	7,700	77	2,541	77	<0.34	<0.45	<0.34	<0.33	<0.33	<0.31
1,2-Dichloroethane	470	4.7	155	4.7	<0.22	0.47J	<0.22	0.41J	<0.31	<0.21
1,1-Dichloroethene	88,000	880	29,040	880	<0.41	<0.50	<0.41	<0.37	<0.37	<0.38
cis-1,2-Dichloroethene	--	---	--	---	<0.33	<0.72	<0.33	<0.53	<0.53	<0.30
trans-1,2-Dichloroethene	--	---	--	---	<0.42	<0.63	<0.42	<0.46	<0.46	<0.40
Ethanol	--	---	--	---	231	305	217	297	222	179
Ethyl acetate	31,000	310	10,230	310	<0.28	2.0	<0.28	1.8	2.4	2.8
Ethylbenzene	4,900	49	1,617	49	0.76J	2.7	4.9	2.7	6.7	1.6
4-Ethyltoluene	--	---	--	---	<0.85	0.95J	<0.85	0.84J	2.5	<0.79
N-Heptane	--	---	--	---	<0.57	3.8	1.1J	3.6	7.0	2.4
Hexachloro-1,3-butadiene	--	---	--	---	<2.9	<1.8	<2.9	<1.3	<1.3	<2.7
n-Hexane	310,000	3,100	102,300	3,100	0.66J	2.4	0.56J	2.3	7.0	4.0
2-Hexanone	13,000	130	4,290	130	<1.1	<1.3	<1.1	<0.95	<0.95	<1.0
Methylene Chloride	260,000	2,600	85,800	2,600	17.1	42.8	16.4	40.4	29.6	44.4
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.77	<0.75	<0.77	<0.55	<0.55	1.1J
Naphthalene	360	3.6	119	3.6	17.5	5.7	<2.0	4.7	5.2	1.9J
2-Propanol	--	---	--	---	6.5	15.0	3.4J	12.6	11.9	13.3
Propylene	1,300,000	13,000	429,000	13,000	<0.21	<0.33	<0.21	<0.24	<0.24	<0.20
Styrene	440,000	4,400	145,200	4,400	1.3J	7.5	0.53J	7.9	36.1	13.3
Tetrachloroethene	18,000	180	5,940	180	<0.47	30.0	0.54J	32.2	118	1.7
Tetrahydrofuran	--	---	--	---	<0.39	1.9	<0.39	1.8	<0.42	<0.36

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-9**	**IA-12**	**IA-12**	**IA-13**	**IA-14**	**IA-14**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Toluene	2,200,000	22,000	726,000	22,000	121	66.8	112	66.6	85.4	163
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<5.5	<2.0	<5.5	<1.5	<1.5	<5.2
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.46	<0.73	<0.46	<0.53	<0.53	<0.43
Trichloroethene	880	8.8	290	8.8	1.6	4.1	1.5	4.8	3.7	1.5
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.1J	1.8J	1.1J	1.6J	1.7J	1.3J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.84	0.92J	<0.84	0.81J	1.0J	<0.78
1,2,4-Trimethylbenzene	3,100	31	1,023	31	<0.67	4.0	<0.67	4.0	9.1	1.1J
1,3,5-Trimethylbenzene	--	---	--	---	<0.59	1.2J	<0.59	1.0J	2.5	<0.55
Vinyl Acetate	88,000	880	29,040	880	<0.40	1.7	<0.40	0.88J	2.1	<0.38
Vinyl Bromide	380	3.8	125	3.8	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2,800	28	924	28	<0.19	<0.27	<0.19	<0.20	<0.20	<0.18
m&p-Xylene	44,000	440	14,520	440	2.3J	8.9	22.7	8.9	27.3	4.9
o-Xylene	44,000	440	14,520	440	0.65J	3.0	8.5	3.1	9.2	1.3

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

All vapor samples collected into 6 liter Summa canisters

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-15**	**IA-16**	**IA-16**	**IA-17**	**IA-18**	**IA-18**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	90.8	93.0	84.6	72.8	82.3	103
Benzene	1,600	16	528	16	2.5	2.4	0.40J	1.4	2.2	0.40J
Bromomethane	2,200	22	726	22	<0.31	<0.33	<0.34	<0.32	<0.32	<0.35
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	19.1	22.9	52.6	22.7	25.1	72.7
Carbon disulfide	310,000	3,100	102,300	3,100	<0.27	<0.29	<0.33	<0.28	<0.28	<0.34
Carbon tetrachloride	2,000	20	660	20	<0.47	0.56J	<0.64	<0.49	<0.49	<0.66
Chlorobenzene	22,000	220	7,260	220	<0.27	<0.29	<0.41	<0.28	<0.28	<0.43
Chloroform	530	5.3	175	5.3	<0.34	<0.37	<0.29	<0.36	<0.36	<0.30
Chloromethane	39,000	390	12,870	390	<0.20	<0.22	0.76	<0.21	<0.21	0.82
Cyclohexane	2,600,000	26,000	858,000	26,000	6.8	6.2	1.9J	3.4	5.7	3.7
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.49	<0.52	<0.74	<0.51	2.5	<0.77
1,3-Dichlorobenzene	--	---	--	---	<0.69	<0.75	<0.87	<0.72	<0.72	<0.90
1,4-Dichlorobenzene	1,100	11	363	11	143	178	16.1	217	211	14.6
Dichlorodifluoromethane	44,000	440	14,520	440	3.0	3.2	2.2	3.2	3.3	2.2
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.34	<0.34	<0.33	<0.33	<0.35
1,2-Dichloroethane	470	4.7	155	4.7	0.53J	0.50J	<0.22	0.49J	0.49J	<0.23
1,1-Dichloroethene	88,000	880	29,040	880	<0.35	<0.38	<0.41	<0.37	<0.37	<0.42
cis-1,2-Dichloroethene	--	---	--	---	<0.51	<0.55	<0.33	<0.53	<0.53	<0.34
trans-1,2-Dichloroethene	--	---	--	---	<0.44	<0.47	<0.42	<0.46	<0.46	<0.44
Ethanol	--	---	--	---	234	282	206	295	329	249
Ethyl acetate	31,000	310	10,230	310	3.3	2.5	1.7	2.1	2.7	1.7
Ethylbenzene	4,900	49	1,617	49	7.4	8.9	1.2J	3.6	4.7	1.9
4-Ethyltoluene	--	---	--	---	2.6	3.2	<0.85	1.4J	2.0	<0.88
N-Heptane	--	---	--	---	7.9	7.3	1.8	4.5	6.0	<0.59
Hexachloro-1,3-butadiene	--	---	--	---	<1.3	<1.4	<2.9	<1.3	<1.3	<3.1
n-Hexane	310,000	3,100	102,300	3,100	7.8	7.1	0.87J	2.8	7.3	0.73J
2-Hexanone	13,000	130	4,290	130	<0.91	<0.99	<1.1	<0.95	<0.95	<1.2
Methylene Chloride	260,000	2,600	85,800	2,600	29.8	33.9	18.1	39.6	39.6	18.5
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	0.68J	<0.57	0.94J	<0.55	<0.55	1.3J
Naphthalene	360	3.6	119	3.6	5.1	6.2	<2.0	4.9	6.4	<2.0
2-Propanol	--	---	--	---	14.7	12.4	4.5	11.2	13.8	5.1
Propylene	1,300,000	13,000	429,000	13,000	<0.23	<0.25	<0.21	<0.24	<0.24	<0.22
Styrene	440,000	4,400	145,200	4,400	36.6	29.3	3.9	11.3	12.7	1.1J
Tetrachloroethene	18,000	180	5,940	180	87.7	63.5	<0.47	39.5	41.2	<0.49
Tetrahydrofuran	--	---	--	---	<0.41	3.5	<0.39	2.1	3.9	1.3

Table 4. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Sample Type - Background Air, Indoor Air, or Sub-Slab	LARGE COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	LARGE COMMERCIAL Target Indoor Air Vapor Action Levels	SMALL COMMERCIAL Target Sub-Slab Vapor Risk Screening Levels	SMALL COMMERCIAL Target Indoor Air Vapor Action Levels	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-15**	**IA-16**	**IA-16**	**IA-17**	**IA-18**	**IA-18**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Toluene	2,200,000	22,000	726,000	22,000	90.2	111	241	80.4	96.2	349
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.4	<1.5	<5.5	<1.5	<1.5	<5.8
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.51	<0.55	<0.46	<0.53	<0.53	<0.48
Trichloroethene	880	8.8	290	8.8	3.6	4.2	1.5	4.5	4.7	1.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.6J	1.5J	1.2J	1.5J	1.6J	1.2J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	1.1J	0.84J	<0.84	0.84J	0.84J	<0.87
1,2,4-Trimethylbenzene	3,100	31	1,023	31	9.7	11.4	0.94J	5.4	10.8	1.1J
1,3,5-Trimethylbenzene	--	---	--	---	2.6	3.2	<0.59	1.5J	2.1	<0.62
Vinyl Acetate	88,000	880	29,040	880	0.81J	1.6	<0.40	1.6	1.9	<0.42
Vinyl Bromide	380	3.8	125	3.8	NA	NA	NA	NA	NA	NA
Vinyl Chloride	2,800	28	924	28	<0.19	<0.20	<0.19	<0.20	<0.20	<0.20
m&p-Xylene	44,000	440	14,520	440	30.6	37.3	4.0	13.4	17.8	6.2
o-Xylene	44,000	440	14,520	440	10.1	12.5	1.1J	4.5	5.8	1.7

Data compared to large commerical levels. Building is greater than 25,000 square feet.

Background and indoor air samples are compared to target indoor air action levels.

Sub-slab samples are compare to target sub-slab vapor risk screening levels.

Bold values exceed the target sub-slab vapor risk screening levels

Boxed values exceeded the target indoor air action levels

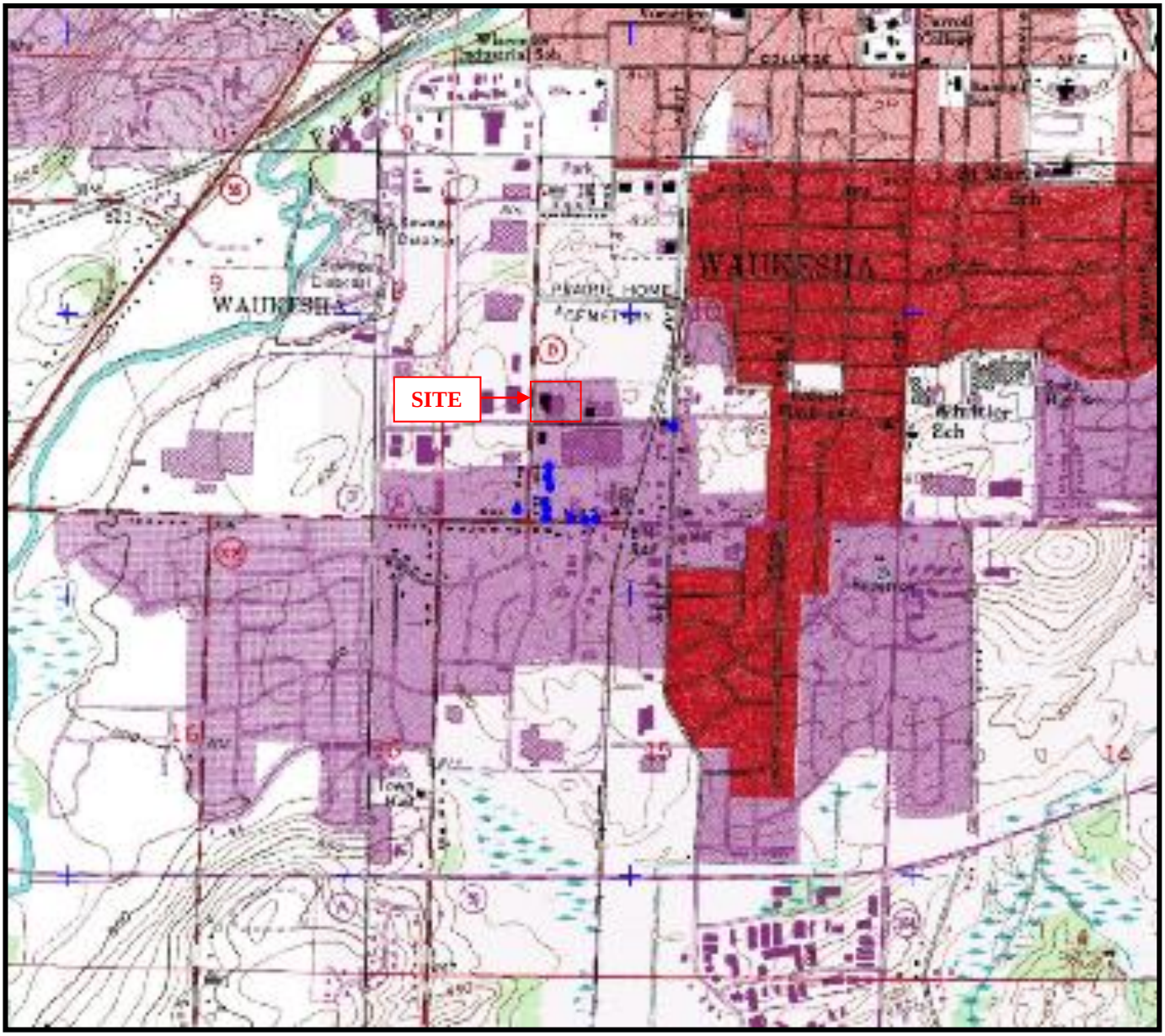
- - No Target Vapor Risk Screning Level established by the United States Environmental Protection Agency

J - Estimated concentration

ug/m^3 = Micrograms per cubic meter

All vapor samples collected into 6 liter Summa canisters

Figures



● LOCATION OF POSSIBLE WATER WELL

N

DESIGNED BY TLS	DATE December 23, 2015
DRAWN BY TLS	PROJECT 2503014.1
APPROVED BY TLS	SHEET NO. 1
SOURCE Muskego, Wisconsin Quadrangle Map 1994 Scale 1:24,000	

FIGURE 1
SITE LOCATION AND WATER WELL MAP
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WISCONSIN

KEY ENGINEERING GROUP LTD.

VENTURA FOODS
BRRTS No. 02-68-582266

GRASS

MW-3

KGP-6
MW-2

STIPPICH ENTERPRISES
BRRTS Nos.
02-68-560323
06-68-560332

GRASS

ASPHALT

MW-10

IRRIGATION BOX

GRASS

OFFICES

KGP-5
MW-1

SP-4

SP-3

PRAIRIE AVENUE

GRASS

GRASS

ASPHALT

PRAIRIE HOME CEMETERY

BRRTS Nos. 02-68-000841
02-68-582187
03-68-001216

GRASS

ASPHALT

GRASS

ASPHALT

MW-7

FENCE

PROPERTY LINE

FENCE

GRASS

MW-1

SP-16

SP-18

ASPHALT

SP-20

SP-17

SP-15

ASPHALT

SP-19

ASPHALT

MW-3

MW-2

SP-2/TW-2

MEZZANINE

SP-3

SP-8

BA-1

SS-13

IA-1

KVP-11

IA-12

SS-2

SP-9

IA-13

IA-9

IA-2

SS-4

IA-14

KVP-4

SS-3

KVP-2

SP-22

SP-21

IA-7

SS-12

IA-1

KVP-1

IA-4

KVP-7

SP-13

MW-6

IAB-1

BG-3

IA-8

SCHAEFER BRUSH
BRRTS No. 02-68-563736

PROPERTY LINE

GRAVEL

PROPERTY LINE

SS-11

IA-2

SS-1

SS-9

SS-10

SS-5

SP-10

SP-14

GRASS

GRASS

GRASS

BAYDOOR

KVP-6

SP-24

SP-5

SS-8

SS-7

IA-15

IA-18

SP-23

KVP-5

IA-10

IA-6

IA-17

SS-6

SP-1/TW-1

IA-19

IA-11

IA-5

SP-11

IA-16

KVP-3

MW-5

IA-3

SP-12

BA-2

MW-4

ASPHALT

ASPHALT

BAYDOOR

GRASS

SP-7

SP-4/TW-4

SP-6

PROPERTY LINE

PROGRESS AVENUE

CONCRETE PAVEMENT

LEGEND

- SOIL BORING
- MONITORING WELL LOCATION
- INDOOR AIR SAMPLE
- TEMPORARY SUB-SLAB VAPOR POINT
- PERMANENT SUB-SLAB VAPOR POINT
- BACKGROUND AIR SAMPLE

SCALE IN FEET

80' 0 80'

DESIGNED BY TLS	DATE 06/03/2019
DRAWN BY JMD	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

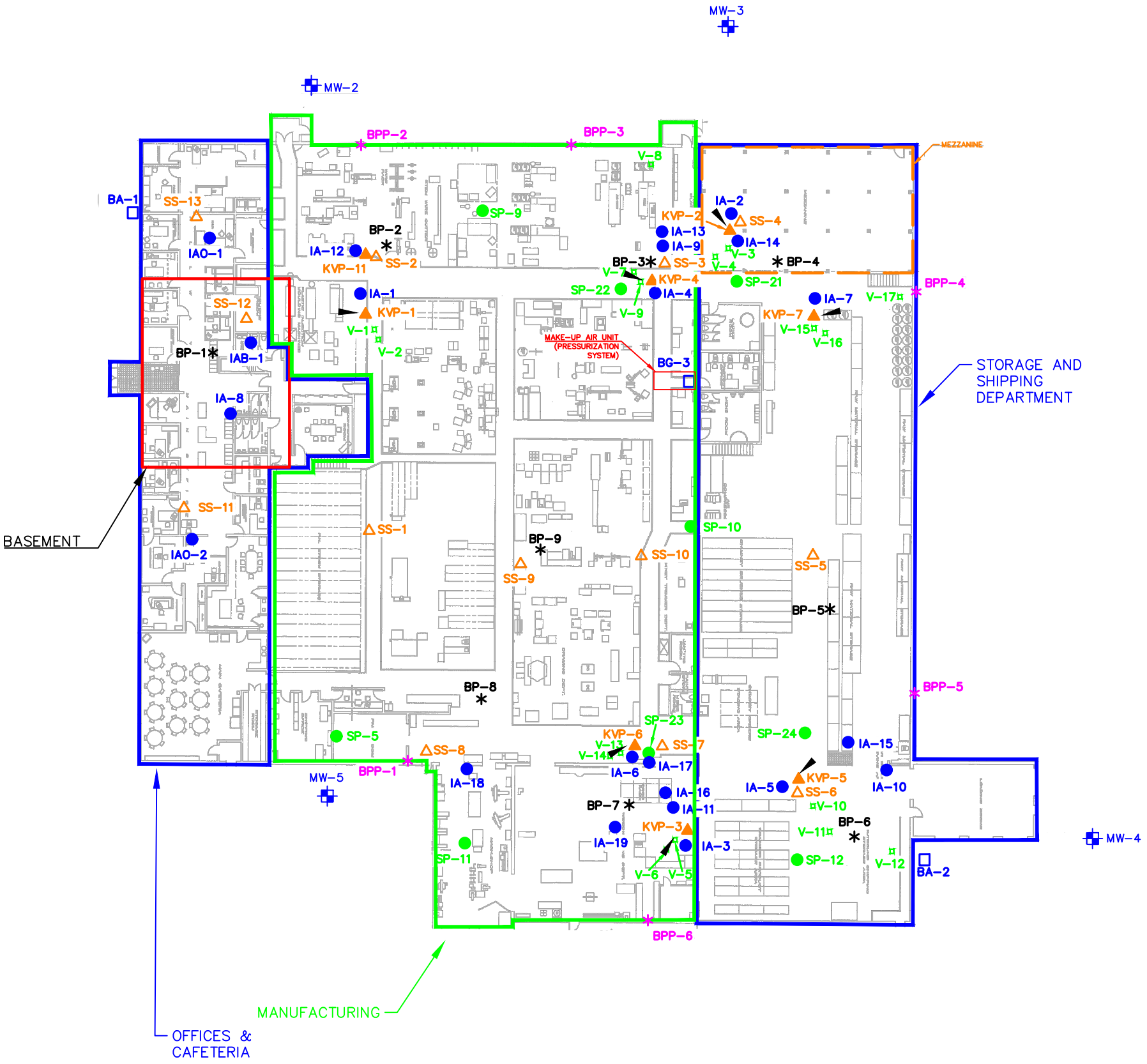
FIGURE 2
SITE LAYOUT MAP
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WISCONSIN

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Feb 25, 2020 – 3:58pm C:\Users\rnewell\AppData\Local\Temp\AcPublish_24340\FIGURE 2 expanded north – March 2019.dwg

LEGEND

- MONITORING WELL LOCATION
- SOIL BORING
- TEMPORARY SUB-SLAB VAPOR POINT
- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- BACKGROUND AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION
- INDOOR AIR BUILDING PRESSURE PORT LOCATION
- PERMANENT SOIL GAS POINT
- BACKGROUND AIR SAMPLE



DESIGNED BY: TLS	DATE: 2/25/2020
DRAWN BY: RJN	PROJECT: 2503001.1
APPROVED BY: TLS	SHEET NO.: 1
CADFILE XREF LMAN	

FIGURE 3
INTERIOR FACILITY LAYOUT
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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LEGEND

- MONITORING WELL LOCATION
- SOIL BORING
- TEMPORARY SUB-SLAB VAPOR POINT
- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- BACKGROUND AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION

PCE TETRACHLOROETHENE

TCE TRICHLOROETHENE

CONCENTRATIONS ARE BOLDED IF ABOVE THE LARGE COMMERCIAL TARGET SUB-SLAB VAPOR RISK SCREENING LEVELS

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

KVP-1	
8/22/2016	
PCE	116
TCE	257

KVP-2	
8/22/2016	
PCE	**404,000**
TCE	**9,710J**

KVP-3	
8/22/2016	
PCE	**20,400**
TCE	60.0

KVP-4	
3/16/2017	
PCE	**32,100**
TCE	95.9

KVP-5	
3/16/2017	
PCE	7,580
TCE	29.6

KVP-6	
3/16/2017	
PCE	214
TCE	<0.59

KVP-7	
3/16/2017	
PCE	**11,500**
TCE	25.6

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6

BA-1 BA-2

IA-1 IA-2 IA-3 IA-4 IA-5 IA-6 IA-7 IA-8 IA-9 IA-10 IA-11 IA-12 IA-13 IA-14 IA-15 IA-16 IA-17 IA-18 IA-19 IAO-1 IAO-2 IAB-1

SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 SS-7 SS-8 SS-9 SS-10 SS-11 SS-12 SS-13

SP-5 SP-9 SP-10 SP-11 SP-12 SP-21 SP-22 SP-23 SP-24

BP-1 BP-2 BP-3 BP-4 BP-5 BP-6 BP-7 BP-8 BP-9

KVP-1 KVP-2 KVP-3 KVP-4 KVP-5 KVP-6 KVP-7 KVP-11

V-1 V-2 V-3 V-4 V-5 V-6 V-7 V-8 V-9 V-10 V-11 V-12 V-13 V-14 V-15 V-16 V-17

BG-3

MAKE-UP AIR UNIT (PRESSURIZATION SYSTEM)

MEZZANINE

STORAGE AND SHIPPING DEPARTMENT

BASEMENT

MANUFACTURING

OFFICES & CAFETERIA

SCALE IN FEET

40' 0 40'

DESIGNED BY TLS	DATE 2/25/2020
DRAWN BY RJN	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 4
PRE-REMEDIAL SUB-SLAB VAPOR ANALYTICAL RESULTS, 2016-2017
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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LEGEND

- MONITORING WELL LOCATION
- SOIL BORING
- TEMPORARY SUB-SLAB VAPOR POINT
- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- BACKGROUND AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION

INDOOR AIR CONCENTRATIONS ARE ITALICIZED IF ABOVE THE LARGE COMMERCIAL TARGET INDOOR AIR VAPOR ACTION LEVELS

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

CONCENTRATIONS ARE PRIOR TO PRESSURIZATION SYSTEM INSTALL

14DCB	1,4-DICHLOROBENZENE
NAPTH	NAPHTHALENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

IA-4	
3/21/2017	
14DCB	*231*
NAPTH	<0.45
PCE	152
TCE	*38.1*

IA-9	
1/16/2018	
14DCB	*201*
NAPTH	<0.93
PCE	92.3
TCE	*12.5*

IA-2	
9/27/2016	
14DCB	3.3
NAPTH	3.8J
PCE	*306*
TCE	1.5

IA-1	
9/27/2016	
14DCB	*60.5*
NAPTH	*4.1*
PCE	86
TCE	3.0

IA-7	
3/21/2017	
14DCB	*178*
NAPTH	<0.45
PCE	122
TCE	*55.8*

IA-8	
1/16/2018	
14DCB	8.2
NAPTH	<0.93
PCE	6.4
TCE	1.2J

IA-10	
1/16/2018	
14DCB	*49.8*
NAPTH	<1.5
PCE	75.0
TCE	5.2

IA-6	
3/21/2017	
14DCB	*92.7*
NAPTH	<0.44
PCE	92.7
TCE	*14.4*

IA-11	
1/16/2018	
14DCB	*93.4*
NAPTH	<0.94
PCE	85.0
TCE	8.6

IA-3	
9/27/2016	
14DCB	*23.9*
NAPTH	*4.9*
PCE	119
TCE	1.2

IA-5	
3/21/2017	
14DCB	*77.7*
NAPTH	<0.45
PCE	107
TCE	*9.7*

BASEMENT

OFFICES & CAFETERIA

MANUFACTURING

STORAGE AND SHIPPING DEPARTMENT

MAKE-UP AIR UNIT (PRESSURIZATION SYSTEM)

MW-2 MW-3 MW-4 MW-5 MW-6

BA-1 BA-2 BG-3

IA-1 IA-2 IA-4 IA-5 IA-6 IA-7 IA-8 IA-9 IA-10 IA-11 IA-12 IA-13 IA-14 IA-15 IA-16 IA-17 IA-18 IA-19

KVP-1 KVP-2 KVP-3 KVP-4 KVP-5 KVP-6 KVP-7 KVP-11

SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 SS-7 SS-8 SS-9 SS-10

SP-5 SP-9 SP-10 SP-11 SP-12 SP-21 SP-22 SP-23 SP-24

BP-1 BP-2 BP-3 BP-4 BP-5 BP-6 BP-7 BP-8 BP-9

V-1 V-2 V-3 V-4 V-5 V-6 V-7 V-8 V-9 V-10 V-11 V-12 V-13 V-14 V-15 V-16 V-17

SCALE IN FEET

40' 0 40'

DESIGNED BY TLS	DATE 2/25/2020	**FIGURE 5** **PRE-REMEDIAL INDOOR AIR ANALYTICAL RESULTS, 2016- 2017** **SCHAEFER BRUSH** **1101 SOUTH PRAIRIE AVENUE** **WAUKESHA, WI**
DRAWN BY RJN	PROJECT 2503001.1	
APPROVED BY TLS	SHEET NO. 1	
CADFILE XREF LMAN		

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

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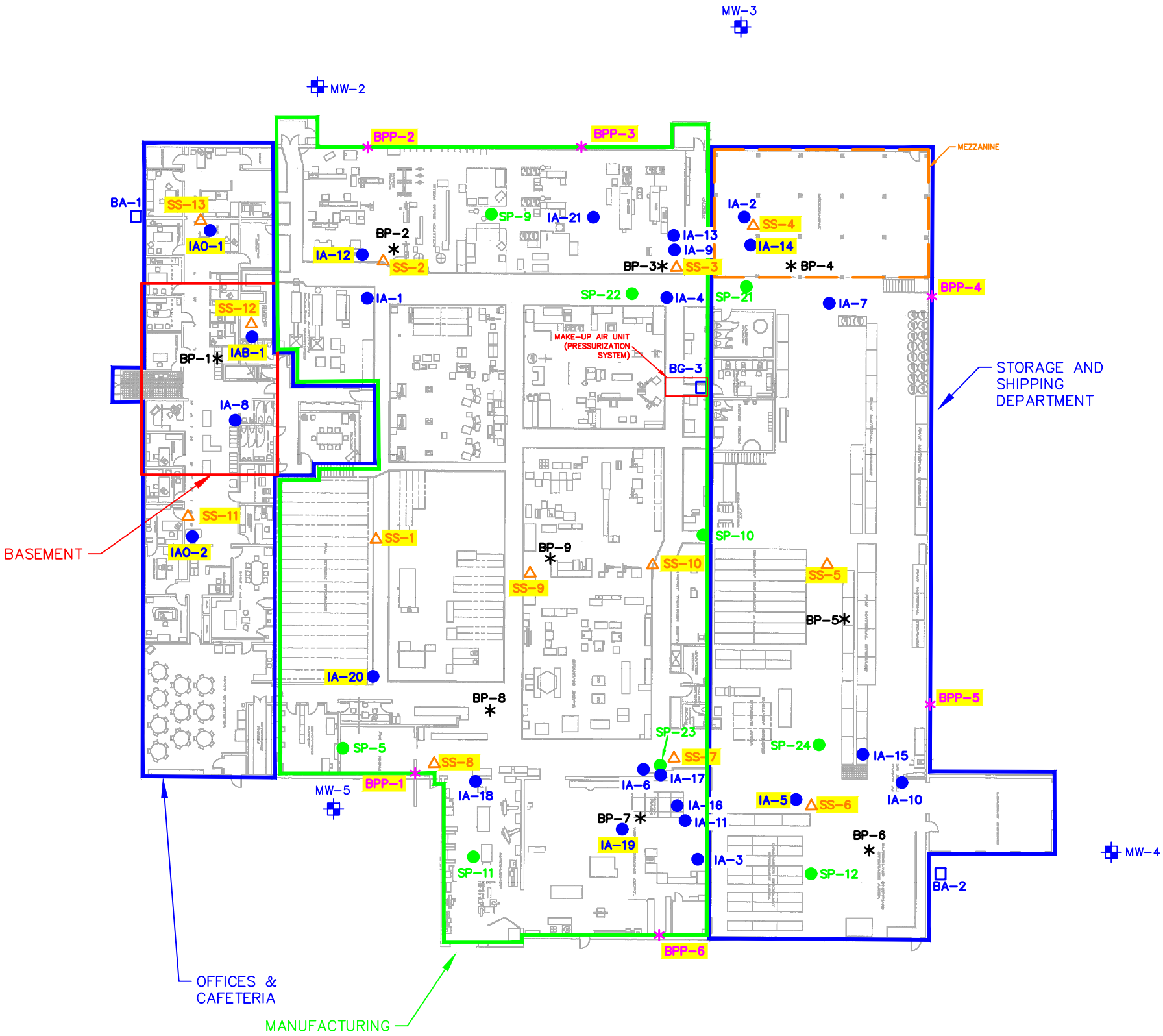
LEGEND

- PERMANENT SUB-SLAB VAPOR PIN
- INDOOR AIR SAMPLE
- INDOOR AIR BUILDING PRESSURE LOCATION
- INDOOR AIR BUILDING PRESSURE PORT LOCATION



PROPOSED SCOPE OF WORK

Location and Task	Map IDs	Analysis	Sample Dates
Office			February 11, March 13, June, August
Collect 2 Indoor Air & 2 Co-Located Sub-Slab Vapor Samples	IAO-1, IAO-2, SS-11, SS-13	VOCs	
Collect 1 Indoor Air Pressure Reading	BP-1	Field Measurement	
Collect 2 Sub-Slab Pressure Reading	SS-11, SS-13		
Basement			
Collect 1 Indoor Air & Co-Located Sub-Slab Vapor Samples	IAB-1, SS-12	VOCs	
Collect 1 Sub-Slab Vapor	SS-12	Field Measurement	
Manufacturing/Shipping Department			
Collect 6 Indoor Air & 6 Co-Located Sub-Slab Vapor Samples	IA-5, IA-12, IA-14, IA-19, IA-20, IA-21 SS-2, SS-2, SS-4, SS-6, SS-7, SS-8	VOCs	
Collect 9 Indoor Air Pressure Readings	BP-2 through BP-9	Field Measurement	
Collect 9 Sub-Slab Pressure Readings	SS-1 through SS-10		
Groundwater Sampling			
Site-Wide Water Levels	MW-1 through MW-7	VOCs	March, June
Groundwater sample wells	MW-2, MW-3, MW-4, MW-7		

SCALE IN FEET

40' 0 40'

DESIGNED BY TLS	DATE 2/25/2020
DRAWN BY RJN	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 6
PROPOSED INTERIOR SAMPLING LOCATIONS
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WI

KEY ENGINEERING GROUP LTD.
735 NORTH WATER STREET, SUITE 510
MILWAUKEE, WI 53202
414.224.8300 (tel) - 414.224.8383 (fax)

Feb 28, 2020 – 10:40am G:\Archive Projects\2503001.1 Schaefer Brush\Schaefer Brush 2020 Base.dwg

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

Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request

Form 4400-237 (R 9/15)

Notice: Use this form to request **a written response (on agency letterhead)** from the Department of Natural Resources (DNR) regarding technical assistance, a post-closure change to a site, a specialized agreement or liability clarification for Property with known or suspected environmental contamination. A fee will be required as is authorized by s. 292.55, Wis. Stats., and NR 749, Wis. Adm. Code., unless noted in the instructions below. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

Definitions

"Property" refers to the subject Property that is perceived to have been or has been impacted by the discharge of hazardous substances.

"Liability Clarification" refers to a written determination by the Department provided in response to a request made on this form. The response clarifies whether a person is or may become liable for the environmental contamination of a Property, as provided in s. 292.55, Wis. Stats.

"Technical Assistance" refers to the Department's assistance or comments on the planning and implementation of an environmental investigation or environmental cleanup on a Property in response to a request made on this form as provided in s. 292.55, Wis. Stats.

"Post-closure modification" refers to changes to Property boundaries and/or continuing obligations for Properties or sites that received closure letters for which continuing obligations have been applied or where contamination remains. Many, but not all, of these sites are included on the GIS Registry layer of RR Sites Map to provide public notice of residual contamination and continuing obligations.

Select the Correct Form

This from should be used to request the following from the DNR:

- Technical Assistance
- Liability Clarification
- Post-Closure Modifications
- Specialized Agreements (tax cancellation, negotiated agreements, etc.)

Do not use this form if one of the following applies:

- Request for an **off-site liability exemption or clarification** for Property that has been or is perceived to be contaminated by one or more hazardous substances that originated on another Property containing the source of the contamination. Use DNR's Off-Site Liability Exemption and Liability Clarification Application Form 4400-201.
- Submittal of an Environmental Assessment for the **Lender Liability Exemption**, s 292.21, Wis. Stats., **if no response or review by DNR is requested**. Use the Lender Liability Exemption Environmental Assessment Tracking Form 4400-196.
- Request for an **exemption to develop on a historic fill site** or licensed landfill. Use DNR's Form 4400-226 or 4400-226A.
- **Request for closure** for Property where the investigation and cleanup actions are completed. Use DNR's Case Closure - GIS Registry Form 4400-202.

All forms, publications and additional information are available on the internet at: dnr.wi.gov/topic/Brownfields/Pubs.html.

Instructions

1. Complete sections 1, 2, 6 and 7 for all requests. Be sure to provide adequate and complete information.
2. Select the type of assistance requested: Section 3 for technical assistance or post-closure modifications, Section 4 for a written determination or clarification of environmental liabilities; or Section 5 for a specialized agreement.
3. Include the fee payment that is listed in Section 3, 4, or 5, unless you are a "Voluntary Party" enrolled in the Voluntary Party Liability Exemption Program **and** the questions in Section 2 direct otherwise. Information on to whom and where to send the fee is found in Section 8 of this form.
4. Send the completed request, supporting materials and the fee to the appropriate DNR regional office where the Property is located. See the map on the last page of this form. A paper copy of the signed form and all reports and supporting materials shall be sent with an electronic copy of the form and supporting materials on a compact disk. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf"

The time required for DNR's determination varies depending on the complexity of the site, and the clarity and completeness of the request and supporting documentation.

Section 1. Contact and Recipient Information

Requester Information

This is the person requesting technical assistance or a post-closure modification review, that his or her liability be clarified or a specialized agreement and is identified as the requester in Section 7. DNR will address its response letter to this person.

Last Name	First	MI	Organization/ Business Name
Mawicke	Jeff		1101 Gage Inc. c/o of Mawicke & Goisman, S.C.

Mailing Address	City	State	ZIP Code
1509 North Prospect Avenue	Milwaueke	WI	53202

Phone # (include area code)	Fax # (include area code)	Email
(414) 224-0600	(414) 224-9359	jmawicke@dmgr.com

The requester listed above: (select all that apply)

- ☐ Is currently the owner
- ☐ Is considering selling the Property
- ☐ Is renting or leasing the Property
- ☐ Is considering acquiring the Property
- ☐ Is a lender with a mortgagee interest in the Property
- ☒ Other. Explain the status of the Property with respect to the applicant:

Law firm representing the property owner.

Contact Information (to be contacted with questions about this request) ☐ Select if same as requester

Contact Last Name	First	MI	Organization/ Business Name
Schoen	Toni		Key Engineering Group, Ltd.

Mailing Address	City	State	ZIP Code
735 North Water Street, Suite 510	Milwaukee	WI	53202

Phone # (include area code)	Fax # (include area code)	Email
(414) 225-0594	(414) 224-8383	tschoen@keyengineering.com

Environmental Consultant (if applicable)

Contact Last Name	First	MI	Organization/ Business Name
Schoen	Toni		Key Engineering Group, Ltd.

Mailing Address	City	State	ZIP Code
735 North Water Street, Suite 510	Milwaukee	WI	53202

Phone # (include area code)	Fax # (include area code)	Email
(414) 225-0594	(414) 224-8383	tschoen@keyengineering.com

Section 2. Property Information

Property Name	FID No. (if known)
Schaefer Brush	268138750

BRRTS No. (if known)	Parcel Identification Number
02-68-563736	WAKC1335944

Street Address	City	State	ZIP Code
1101 South Prairie Avenue	Waukesha	WI	53186

County	Municipality where the Property is located	Property is composed of:	Property Size Acres
Waukesha	◉ City ○ Town ○ Village of Milwaukee	◉ Single tax parcel ○ Multiple tax parcels	5

1. Is a response needed by a specific date? (e.g., Property closing date) Note: Most requests are completed within 60 days. Please plan accordingly.

○ No ◉ Yes

Date requested by: 03/12/2020

Reason: Sampling event planned for 3/13

2. Is the "Requester" enrolled as a Voluntary Party in the Voluntary Party Liability Exemption (VPLE) program?

◉ No. **Include the fee that is required for your request in Section 3, 4 or 5.**

○ Yes. **Do not include a separate fee.** This request will be billed separately through the VPLE Program.

Fill out the information in Section 3, 4 or 5 which corresponds with the type of request:
Section 3. Technical Assistance or Post-Closure Modifications;
Section 4. Liability Clarification; or Section 5. Specialized Agreement.

Section 3. Request for Technical Assistance or Post-Closure Modification

Select the type of technical assistance requested: **[Numbers in brackets are for WI DNR Use]**

☐ No Further Action Letter (NFA) (Immediate Actions) - NR 708.09, [183] - **Include a fee of $350.** Use for a written response to an immediate action after a discharge of a hazardous substance occurs. Generally, these are for a one-time spill event.

☒ Review of Site Investigation Work Plan - NR 716.09, [135] - **Include a fee of $700.**

☐ Review of Site Investigation Report - NR 716.15, [137] - **Include a fee of $1050.**

☐ Approval of a Site-Specific Soil Cleanup Standard - NR 720.10 or 12, [67] - **Include a fee of $1050.**

☐ Review of a Remedial Action Options Report - NR 722.13, [143] - **Include a fee of $1050.**

☐ Review of a Remedial Action Design Report - NR 724.09, [148] - **Include a fee of $1050.**

☐ Review of a Remedial Action Documentation Report - NR 724.15, [152] - **Include a fee of $350**

☐ Review of a Long-term Monitoring Plan - NR 724.17, [25] - **Include a fee of $425.**

☐ Review of an Operation and Maintenance Plan - NR 724.13, [192] - **Include a fee of $425.**

Other Technical Assistance - s. 292.55, Wis. Stats. [97] (For request to build on an abandoned landfill use Form 4400-226)

☐ Schedule a Technical Assistance Meeting - **Include a fee of $700.**

☐ Hazardous Waste Determination - **Include a fee of $700.**

☐ Other Technical Assistance - **Include a fee of $700.** Explain your request in an attachment.

Post-Closure Modifications - NR 727, [181]

☐ Post-Closure Modifications: Modification to Property boundaries and/or continuing obligations of a closed site or Property; sites may be on the GIS Registry. This also includes removal of a site or Property from the GIS Registry. **Include a fee of $1050, and:**

☐ Include a fee of $300 for sites with residual soil contamination; and

☐ Include a fee of $350 for sites with residual groundwater contamination, monitoring wells or for vapor intrusion continuing obligations.

Attach a description of the changes you are proposing, and documentation as to why the changes are needed (if the change to a Property, site or continuing obligation will result in revised maps, maintenance plans or photographs, those documents may be submitted later in the approval process, on a case-by-case basis).

Skip Sections 4 and 5 if the technical assistance you are requesting is listed above and complete Sections 6 and 7 of this form.

Section 4. Request for Liability Clarification

Select the type of liability clarification requested. Use the available space given or attach information, explanations, or specific questions that you need answered in DNR's reply. Complete Sections 6 and 7 of this form. **[Numbers in brackets are for DNR Use]**

☐ "Lender" liability exemption clarification - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the real Property, and/or the personal Property and fixtures;

(2) an environmental assessment, in accordance with s. 292.21, Wis. Stats.;

(3) the date the environmental assessment was conducted by the lender;

(4) the date of the Property acquisition; for foreclosure actions, include a copy of the signed and dated court order confirming the sheriff's sale.

(5) documentation showing how the Property was acquired and the steps followed under the appropriate state statutes.

(6) a copy of the Property deed with the correct legal description; and,

(7) the Lender Liability Exemption Environmental Assessment Tracking Form (Form 4400-196).

(8) If no sampling was done, please provide reasoning as to why it was **not** conducted. Include this either in the accompanying environmental assessment or as an attachment to this form, and cite language in s. 292. 21(1)(c)2.,h.-i., Wis. Stats.:

h. The collection and analysis of representative samples of soil or other materials in the ground that are suspected of being contaminated based on observations made during a visual inspection of the real Property or based on aerial photographs, or other information available to the lender, including stained or discolored soil or other materials in the ground and including soil or materials in the ground in areas with dead or distressed vegetation. The collection and analysis shall identify contaminants in the soil or other materials in the ground and shall quantify concentrations.

i. The collection and analysis of representative samples of unknown wastes or potentially hazardous substances found on the real Property and the determination of concentrations of hazardous waste and hazardous substances found in tanks, drums or other containers or in piles or lagoons on the real Property.

☐ "Representative" liability exemption clarification (e.g. trustees, receivers, etc.) - s. 292.21, Wis. Stats. [686]

❖ **Include a fee of $700.**

Provide the following documentation:

(1) ownership status of the Property;

(2) the date of Property acquisition by the representative;

(3) the means by which the Property was acquired;

(4) documentation that the representative has no beneficial interest in any entity that owns, possesses, or controls the Property;

(5) documentation that the representative has not caused any discharge of a hazardous substance on the Property; and

(6) a copy of the Property deed with the correct legal description.

☐ Clarification of local governmental unit (LGU) liability exemption at sites with: (select all that apply)

☐ hazardous substances spills - s. 292.11(9)(e), Wis. Stats. [649];

☐ Perceived environmental contamination - [649];

☐ hazardous waste - s. 292.24 (2), Wis. Stats. [649]; and/or

☐ solid waste - s. 292.23 (2), Wis. Stats. [649].

❖ **Include a fee of $700, a summary of the environmental liability clarification being requested, and the following:**

(1) clear supporting documentation showing the acquisition method used, and the steps followed under the appropriate state statute(s).

(2) current and proposed ownership status of the Property;

(3) date and means by which the Property was acquired by the LGU, where applicable;

(4) a map and the ¼, ¼ section location of the Property;

(5) summary of current uses of the Property;

(6) intended or potential use(s) of the Property;

(7) descriptions of other investigations that have taken place on the Property; and

(8) (for solid waste clarifications) a summary of the license history of the facility.

Section 4. Request for Liability Clarification (cont.)

☐ Lease liability clarification - s. 292.55, Wis. Stats. [646]

- ❖ **Include a fee of $700 for a single Property, or $1400 for multiple Properties and the information listed below:**

(1) a copy of the proposed lease;

(2) the name of the current owner of the Property and the person who will lease the Property;

(3) a description of the lease holder's association with any persons who have possession, control, or caused a discharge of a hazardous substance on the Property;

(4) map(s) showing the Property location and any suspected or known sources of contamination detected on the Property;

(5) a description of the intended use of the Property by the lease holder, with reference to the maps to indicate which areas will be used. Explain how the use will not interfere with any future investigation or cleanup at the Property; and

(6) all reports or investigations (e.g. Phase I and Phase II Environmental Assessments and/or Site Investigation Reports conducted under s. NR 716, Wis. Adm. Code) that identify areas of the Property where a discharge has occurred.

General or other environmental liability clarification - s. 292.55, Wis. Stats. [682] - Explain your request below.

- ❖ **Include a fee of $700 and an adequate summary of relevant environmental work to date.**

☐ No Action Required (NAR) - NR 716.05, [682]

- ❖ **Include a fee of $700.**

Use where an environmental discharge has or has not occurred, and applicant wants a DNR determination that no further assessment or clean-up work is required. Usually this is requested after a Phase I and Phase II environmental assessment has been conducted; the assessment reports should be submitted with this form. This is not a closure letter.

☐ Clarify the liability associated with a "closed" Property - s. 292.55, Wis. Stats. [682]

- ❖ **Include a fee of $700.**

- Include a copy of any closure documents if a state agency other than DNR approved the closure.

Use this space or attach additional sheets to provide necessary information, explanations or specific questions to be answered by the DNR.

Section 5. Request for a Specialized Agreement

Select the type of agreement needed. Include the appropriate draft agreements and supporting materials. Complete Sections 6 and 7 of this form. More information and model draft agreements are available at: dnr.wi.gov/topic/Brownfields/lgu.html#tabx4.

☐ Tax cancellation agreement - s. 75.105(2)(d), Wis. Stats. [654]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-105agrmt.pdf).

☐ Agreement for assignment of tax foreclosure judgement - s.75.106, Wis. Stats. [666]

- ❖ **Include a fee of $700, and the information listed below:**

(1) Phase I and II Environmental Site Assessment Reports,
(2) a copy of the Property deed with the correct legal description; and,
(3) a draft 75.105 agreement based on the DNR's model (dnr.wi.gov/topic/brownfields/documents/mod75-106agrmt.pdf).

☐ Negotiated agreement - Enforceable contract for non-emergency remediation - s. 292.11(7)(d) and (e), Wis. Stats. [630]

- ❖ **Include a fee of $1400, and the information listed below:**

(1) a draft schedule for remediation; and,
(2) the name, mailing address, phone and email for each party to the agreement.

Section 6. Other Information Submitted

Identify all materials that are included with this request.

Include one copy of any document from any state agency files that you want the Department to review as part of this request. The person submitting this request is responsible for contacting other state agencies to obtain appropriate reports or information.

☐ Phase I Environmental Site Assessment Report - Date: _____

☐ Phase II Environmental Site Assessment Report - Date: _____

☐ Legal Description of Property (required for all liability requests and specialized agreements)

☒ Map of the Property (required for all liability requests and specialized agreements)

Analytical results of the following sampled media: Select all that apply and include date of collection.

☒ Groundwater ☒ Soil ☐ Sediment ☒ Other medium - Describe: sub-slab vapor and indoor air

Date of Collection: _____

☐ A copy of the closure letter and submittal materials

☐ Draft tax cancellation agreement

☐ Draft agreement for assignment of tax foreclosure judgment

☐ Other report(s) or information - Describe: _____

For Property with newly identified discharges of hazardous substances only: Has a notification of a discharge of a hazardous substance been sent to the DNR as required by s. NR 706.05(1)(b), Wis. Adm. Code?

○ Yes - Date (if known): _____
◉ No

Note: The Notification for Hazardous Substance Discharge (non-emergency) form is available at: dnr.wi.gov/files/PDF/forms/4400/4400-225.pdf.

Section 7. Certification by the Person who completed this form

☐ I am the person submitting this request (requester)

☒ I prepared this request for: 1101 Gage Inc.
Requester Name

I certify that I am familiar with the information submitted on this request, and that the information on and included with this request is true, accurate and complete to the best of my knowledge. I also certify I have the legal authority and the applicant's permission to make this request.

Ina Lehoe
Signature

2/28/20
Date Signed

Project Manager
Title

414.225.0594
Telephone Number (include area code)

Section 8. DNR Contacts and Addresses for Request Submittals

Send or deliver one paper copy and one electronic copy on a compact disk of the completed request, supporting materials, and fee to the region where the property is located to the address below. Contact a DNR regional brownfields specialist with any questions about this form or a specific situation involving a contaminated property. For electronic document submittal requirements see: http://dnr.wi.gov/files/PDF/pubs/rr/RR690.pdf.

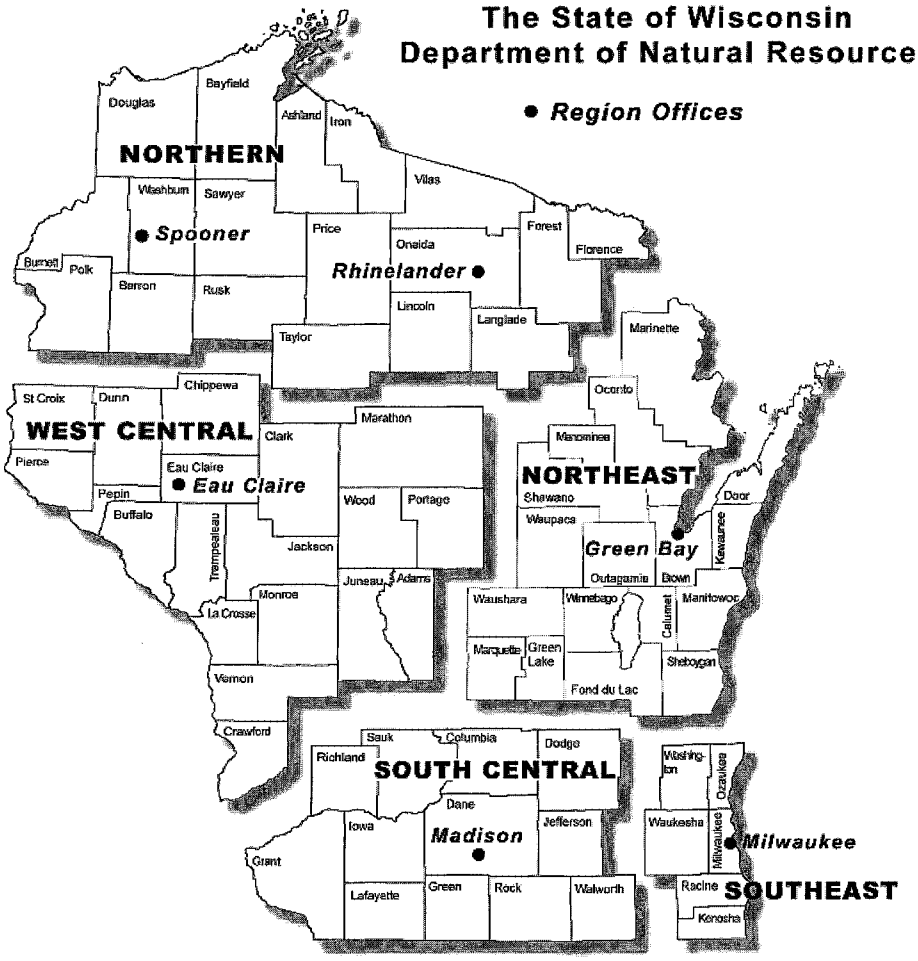
DNR NORTHERN REGION
Attn: RR Program Assistant
Department of Natural Resources
223 E Steinfest Rd Antigo, WI 54409

DNR NORTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2984 Shawano Avenue
Green Bay WI 54313

DNR SOUTH CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg WI 53711

DNR SOUTHEAST REGION
Attn: RR Program Assistant
Department of Natural Resources
2300 North Martin Luther King Drive
Milwaukee WI 53212

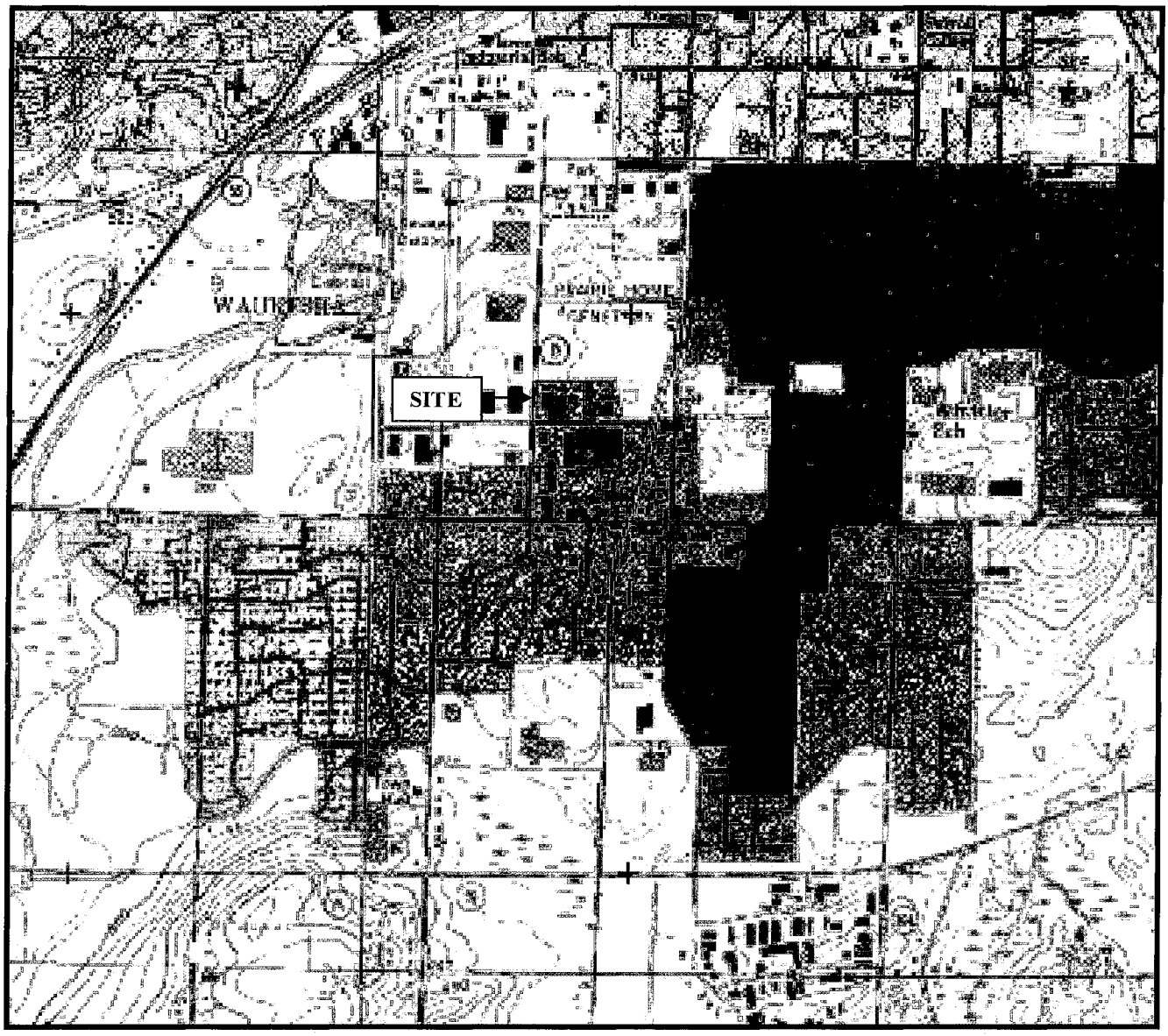
DNR WEST CENTRAL REGION
Attn: RR Program Assistant
Department of Natural Resources
1300 Clairemont Ave.
Eau Claire WI 54702



Note: These are the Remediation and Redevelopment Program's designated regions. Other DNR program regional boundaries may be different.

DNR Use Only			
Date Received	Date Assigned	BRRTS Activity Code	BRRTS No. (if used)
DNR Reviewer	Comments		
Fee Enclosed? ○ Yes ○ No	Fee Amount $	Date Additional Information Requested	Date Requested for DNR Response Letter
Date Approved	Final Determination		

Figures



● LOCATION OF POSSIBLE WATER WELL

DESIGNED BY TLS	DATE December 23, 2015
DRAWN BY TLS	PROJECT 2503014.1
APPROVED BY TLS	SHEET NO. 1
SOURCE Muskego, Wisconsin Quadrangle Map 1994 Scale 1:24,000	

FIGURE 1
SITE LOCATION AND WATER WELL MAP
SCHAEFER BRUSH
1101 SOUTH PRAIRIE AVENUE
WAUKESHA, WISCONSIN

KEY ENGINEERING GROUP LTD.