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May 20, 2020

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

Reference: *March 2020 Sampling Results*
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 Mr. Grittner:

Key Engineering Group, Ltd. (KEY) has prepared this letter to provide the Wisconsin Department of Natural Resources (WDNR) with indoor air and sub-slab vapor analytical results and pressure readings related to vapor mitigation system and groundwater sampling analytical results from Schaefer Brush located at 1101 South Prairie Avenue, in Waukesha, Wisconsin (Figure 1). Site Investigation Sample Results Notification (WDNR Form 4400-249), a copy of the sub-slab and indoor air laboratory reports and groundwater analytical results are included as Attachments 1 through 3, respectively.

Electronic copies of this letter were also submitted to the following parties:

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

1.0 BACKGROUND

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

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. A *Site Investigation Work Plan* was submitted with a technical review fee on February 28, 2020 based on the scope of work requested at the January 2020 meeting.

Indoor air and sub-slab vapor samples were collected, and laboratory analyzed in February. Indoor air and sub-slab pressure readings were also collected in February. A *February 2020 Sampling Results* letter report was submitted to the WDNR with the result and key findings. The WDNR reviewed the *Site Investigation Work Plan and February 2020 Sampling Results*, and communicated on a March 13 telephone call that the March sampling scope of work should only include the following:

- Sub-slab sampling SS-11 through 13 and indoor air sampling IAO-1, IAO-2, and IAB-1 in the office and basement (as planned).
- Sub-slab sampling SS-1, SS-9, and SS-10 in the manufacturing area.
- Indoor air sampling at IA-5, IA-12, IA-14, IA-19, IA-20, IA-21.
- Indoor air sampling including one near the center of the shipping department and two locations in the center of the manufacturing department in line with the SS-1, SS-9, SS-10, and SS-5 sample locations.
- Collect pressure readings from sub-slab points SS-1 through SS-13, indoor air locations BP-1 through BP-9, and indoor air locations BPP-1 through BPP-6 (as planned).

Below is a summary of the scope of work, field procedures, analytical results, and field measurements completed in March.

2.0 BUILDING CONSTRUCTION

The building is approximately 63,700 square feet and is slab on grade, single story, cement block structure supported by steel I beams. The facility generally operates from approximately 0800 to 1700 hours. The building is divided into three sections including offices (approximately 9,800 square feet) on the west side, manufacturing department (approximately 31,500 square feet) in the middle, and shipping/storage department (approximately 19,500 square feet) on the east side of the building. There is a partial basement measuring approximately 2,900 square feet. An interior facility layout is presented as Figure 3. Photographs are included in Attachment 4.

The cement block walls are constructed over poured concrete footings. The interior and exterior of the cement block walls are waterproofed. The west side of the building (rear of the building) has steel sheet metal adhered to the cement block from the ground to the roofline. The east side of the building (front of the building) is coated in a layer of cement for a smooth finish.

The office and manufacturing department are separated by a firewall constructed of a waterproofed cement block wall. The office space includes individual offices with drywall walls, cubicles, conference room, server room, medical room, restrooms and a cafeteria. There is a drop ceiling located in this office space. There are five mandoors that lead from the office space to the manufacturing department. These doors are typically left closed to regulate the temperature in the office from the manufacturing department, which is generally warmer and not air conditioned. However, if a door is left open, air from the manufacturing department would travel into the office space. This accounts for the positive indoor air pressure measurements from the office.

The manufacturing and shipping departments are separated by a cement block wall with two open (no doors) entry points. Both departments have an open concept design with no interior walls, with the exception of the restrooms, an engineer room, and storage closets. The pressurization system installed for vapor mitigation is gas-fired to supply heat to the manufacturing and shipping departments. These two departments are not air conditioned. The pressurization system pumps air from outside into the manufacturing department. Air movement travels from the manufacturing to the shipping department through the two entry points. Air is discharged through roof vents.

The partial basement is located above the water table and houses the heating ventilation and air conditioner (HVAC) and water heaters for the offices only. A closed sump in the basement collects condensate from the HVAC unit through a floor drain. Water from the sump is pumped to the sanitary sewer.

3.0 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.

3.1 Sub-Slab Vapor and Indoor Air Sampling Locations and Procedures

Sub-slab samples SS-11 through SS-13 and indoor air samples were IAO-1, IAO-2, and IAB-1 were collected on March 16, 2020. These samples are collected in a heating season. The outdoor temperature ranged from 31 to 42 degrees Fahrenheit. Samples SS-13 and IAO-1, SS-12 and IAB-1, and SS-13 and IAO-1 were collected as co-located samples to evaluate sub-slab vapor and indoor air quality. Samples were analyzed for VOCs using Method TO-15 by Pace Laboratory Services (Pace).

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. 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, threaded stainless steel cap.

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

3.2 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab samples SS-11 through SS-13 and indoor air samples were IAO-1, IAO-2, and IAB-1were collected on March 16, 2020 from the office and basement located on the west side of the building. Sample locations are presented on Figure 2. The indoor air sample analytical results were compared to the small commercial vapor action levels (VALs) since the office and basement spaces are collectively approximately 12,575 square feet. The sub-slab vapor samples analytical results were compared to the small commercial vapor risk screening levels (VRSLs).

A summary of the indoor air and sub-slab vapor analytical results are presented in Table 1. Sub-slab vapor and indoor air analytical results are posted on Figures 3 and 4, respectively. Below is a summary of the analytical results.

- Sub-slab vapor analytical results from SS-11 throughSS-13 were detected below the small commercial VRSLs.

- Indoor air analytical results from IAO-1, IAO-2, and IAB-1 were detected above the small commercial VAL of 11 micrograms per cubic meter ($\mu g/m^3$) for 1,4-dichlorobenzene with concentrations ranging from 81.4 $\mu g/m^3$ to 98.1 $\mu g/m^3$. This analyte is a common disinfectant and deodorizer. This analyte has not been detected in soil or groundwater samplings onsite. The source is likely from cleaning agents used in the facility.

- **Based on the sub-lab vapor and the indoor air results, a vapor mitigation system is not warranted to interrupt the vapor intrusion pathway in the office or basement spaces.**

3.3 Sub-Slab and Indoor Air Pressure Readings

KEY collected sub-slab pressure readings (in relation to the indoor air) after collecting sub-slab vapor samples from vapor pins installed on the north and south ends of the office (SS-13 and SS-11) and in the basement (SS-12) on March 23, 2020. Pressure readings were collected by attaching a micromanometer capable of measuring pressure to 0.001 inches of water column (in WC) to the vapor pins with silicon tubing.

KEY also collected an indoor air pressure reading (in relation to the outdoor air) from the office (BP-1) on March 23, 2020. This pressure reading was collected by running a length of polyethylene tubing connected to a micromanometer by silicon tubing from inside the building to outside the nearest office exterior door.

Pressure readings were measured once a stable reading was reached. A summary of the measurements is presented in Table 2. Sample locations are presented on Figure 2. Below is a summary of the measurements.

- Sub-slab pressure readings from SS-11 through SS-13 were measured at 0.0 in WC.
- Indoor air pressure from BP-1 was measured at 0.000 in WC. Zero indoor air pressure results when the outdoor and indoor air pressure are at equilibrium.
- An indoor air pressure reading was not collected from the basement since the basement walls are located below grade and running tubing up to the first floor and outside is not practical and the data may not be accurate due to distance and length of tubing.

4.0 PRESSURIZATION SYSTEM VERIFICATION SAMPLING 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 in WC) 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.

4.1 Sub-Slab Vapor and Indoor Air Analytical Results

Sub-slab vapor samples were collected from SS-1, SS-9, and SS-10 were collected on March 16, 2020. Indoor air samples were collected from IA-5, IA-12, IA-14, IA-19, IA-20, and IA-21 were collected on March 16, 2020 and indoor air samples IA-22 through IA-24 were collected on March 19, 2020. Sample locations are presented on Figure 2. Sub-slab vapor samples were collected over 30 minutes and indoor air samples were collected over 8 hours using the same procedures described in Section 2.2. Samples were analyzed for VOCs using Method TO-15 by Pace.

There are also 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 vapor samples, as warranted. The locations are presented on Figure 2.

The indoor air sample analytical results were compared to the large commercial VALs since the manufacturing and shipping departments are collectively approximately 48,400 square feet. The sub-slab vapor samples analytical results were compared to the large commercial VRSLs.

A summary of the indoor air and sub-slab vapor analytical results are presented in Table 1. Sample locations are presented on Figure 2. Sub-slab vapor and indoor air analytical results are posted on Figures 3 and 4, respectively. Below is a summary of the analytical results.

- Sub-slab vapor analytical results from SS-1 and SS-9 were detected below the large commercial VRSLs. Sub-slab vapor tetrachloroethene analytical results exceeded the VRSL of 18,000 µg/m^3 at SS-10 at 42,900 µg/m^3). These three samples are located in a line from west to east in the central portion of the manufacturing area.

- Indoor air analytical results from IA-12, IA-14, IA-19 through IA-24 were detected below their respective large commercial VALs. Indoor air analytical results from IA-5 were detected above the large commercial VAL of 11 µg/m^3 for 1,4-dichlorobenzene at 13.2 µg/m^3. This analyte is a common disinfectant and deodorizer. This analyte has not been detected in soil or groundwater samplings onsite. The source is likely from cleaning agents used in the facility.

  Therefore, there are no chlorinated VOCs detected above the VALs in the manufacturing or shipping departments and the pressurization system is effectively interrupting the vapor intrusion pathway.

4.2 Install Indoor Air Pressure Locations

KEY installed six indoor air building pressure ports (BPP-1 through BBP-6) on February 11, 2020. There are also 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 in the past. These locations are nearly evenly spaced across the manufacturing and shipping department (Figure 2).

4.3 Sub-Slab and Indoor Air Pressure Readings

KEY collected sub-slab pressure readings (in relation to the indoor air) after collecting sub-slab vapor samples from vapor pins SS-1 through SS-10 on March 23, 2020. Pressure readings were collected by attaching a micromanometer capable of measuring pressure to 0.001 in WC to the vapor pins with silicon tubing.

KEY also collected indoor air pressure readings (in relation to the outdoor air) from BP-2 through BP-9 and BBP-1 through BBP-6 on March 23, 2020 (Figure 2). The pressure readings from BP-2 through BP-9 were collected by running a length of polyethylene tubing connected to a micromanometer with silicon tubing from inside the building to outside the building from the nearest exterior door. The pressure readings from BBP-1

through BBP-6 installed through exterior walls were collected by attaching silicon tubing to the pressure port hose barb fitting and running an approximately 5-foot length of polyethylene tubing to another piece of silicon tubing that was attached to the micromanometer.

Pressure readings were measured once a stable reading was reached. A summary of the measurements is presented in Table 2. Below is a summary of the measurements.

- Sub-slab pressure readings from SS-1 through SS-10 were measured at 0.0 in WC, with the exception of SS-5 at -0.001 in WC and SS-7 at -0.004 in WC. Zero pressure under the building does not appear to have resulted in sub-slab vapors migrating significantly under the building.

- Readings from remote pressure sensor on the pressurization system are presented in Table 3 for 2020. The pressure in March 2020 averaged 0.2 in WC.

- Indoor air pressure from BP-2 through BP-9 were measured at 0.000 in WC, with the exception of BP-6 at 0.004 in WC, BP-7 at -0.009 in WC, and BP-9 at 0.016 in WC. Indoor air pressure from BPP-1 through BPP-6 were measured at 0.000 in WC.

    - Most manually collected pressure readings were measured at 0.000 in WC. This is below the pressurization system design of 0.01 in WC. Zero indoor air pressure measured in relation to outside pressure demonstrates both are at equilibrium.

      Figures 5 and 6 are graphs to illustrate the PCE and trichloroethene (TCE) indoor air concentrations collected prior to and post installation of the vapor mitigation system in relation to the indoor air pressure measurements. **These graphs demonstrate that that when the indoor air pressure is slightly less than, equal to, or greater than 0.0, the indoor air concentrations are consistently below their respective VALs for this site.**

      The indoor air pressure for the Operation & Maintenance Plan in the manufacturing and shipping departments is recommended to average 0.0 or greater based on the April and July 2018 and February and March 2020 indoor air concentrations detected below VALs and the indoor air pressure readings. This will be revised after the June and August sampling events.

    - Weather conditions including barometric pressure and wind speed were also evaluated to determine if there was and effective on the indoor air pressure for this site.

      Figures 7 and 8 are graphs to illustrate the PCE and TCE indoor air concentrations collected prior to and post installation of the vapor mitigation system in relation to the barometric pressure. **The indoor air concentrations correlation with the rise and fall of the barometric pressure.**

Figures 9 is a graph to illustrate the barometric pressure versus indoor air pressure. The mitigation system is intended to create an equal or greater pressure indoors compared to under the slab. **There does not appear to be a correlation between the indoor air pressure and barometric pressure**. This is attributed to the mitigation system exerting a constant pressure inside the building. Therefore, despite changes in the barometric pressure, the indoor air pressure changes very little.

Figures 10 is a graph to illustrate the wind speed versus indoor air pressure. The mitigation system is intended to create an equal or greater pressure indoors compared to under the slab. **There does not appear to be a correlation between indoor air pressure and wind speed.**

Based on the above observations, it would appear that for this site with this pressurization system, it is not reasonable to expect a consistent indoor air pressure throughout the building. Further, there should be no expectation that a negative pressure exists below the slab when vapors are not being extracted from the subsurface.

- **Regardless of indoor air pressure and barometric pressure variability, the indoor air analytical results demonstrated there were no VAL exceedances in the building for chlorinated VOCs and the pressurization system is effectively mitigating vapor intrusion.**

5.0 GROUNDWATER ELEVATIONS 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 proposed to collect groundwater samples from monitoring wells MW-2 through MW-4 and MW-7.

On March 19, 2020, KEY collected site-wide water levels from the well network including MW-1 through MW-7. A decontaminated water level indicator was used to collect depth to water measurements from monitoring wells. Three well volumes were purged from monitoring wells MW-2 through MW-4 and MW-7 using dedicated disposable polyethylene bailers. Groundwater samples were collected and submitted for laboratory analysis of VOCs using SW-846 Method 8260B.Groundwater samples were collected using dedicated bailers. A trip blank supplied by the laboratory was maintained with the collected samples and submitted for VOC analysis.

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

5.1 Groundwater Elevations

Groundwater elevations generally ranged from approximately 810 to 815 feet above mean sea level (amsl) onsite and 808 to 811 feet amsl offsite. The depth to groundwater in the monitoring wells ranged from approximately 21.3 to 26.9 feet bgs onsite and approximately 25.4 to 28.3 feet offsite. Groundwater elevations are summarized in Table 4.

Potentiometric flow map is presented as Figures 11 using March 2020 data. Groundwater flow is primarily to the north. This is consistent with the historical flow direction.

5.2 Groundwater Analytical Results

PCE, TCE, and cis-1,2-DCE concentrations were detected above ESs at the Site. The presence of the daughter products is an indication that natural attenuation is occurring. Groundwater analytical results are presented in Table 5. Below is a summary of the groundwater analytical exceedances organized by well.

- MW-2

  PCE concentrations exceeded the ES of 5 µg/l at MW-2 with concentrations ranging from 2.4 µg/l to 20.5 µg/l. PCE concentrations are decreasing in this well and are only slightly above the ES in the last sampling event at 6.6 µg/l.

- MW-3

  PCE concentrations exceeded the ES of 5 µg/l at MW-3 with concentrations ranging from 145 µg/l to 749 µg/l. PCE concentrations have been decreasing in this well in the last four sampling events.

- MW-4

  PCE concentrations exceeded the ES of 5 µg/l at MW-4 with concentrations ranging from 14 µg/l to 96.9 µg/l. Overall, PCE concentrations have been decreasing in this well for the last six sampling events.

- MW-7

  PCE concentrations exceeded the ES of 5 µg/l at MW-7 with concentrations ranging from 146 µg/l to 600 µg/l. Overall, PCE concentrations have been decreasing in this well for the last seven sampling events.

6.0 CONCLUSIONS

Below is a summary of the key findings and conclusions from the sampling completed in February 2020.

- Office and Basement

  - There were no sub-slab vapor VRSL exceedances or indoor air VAL exceedances in the office or basement. Vapor mitigation is therefore not warranted in these areas.

  - Sub-slab pressure readings from beneath the office and basement from SS-11 through SS-13 were measured at 0.0 in WC. Indoor air pressure in the office from BP-1 was measured at 0.000 in WC.

- Manufacturing and Shipping Departments Where Pressurization System is Effective

    - Sub-slab vapor analytical results from SS-10 was detected above the large commercial VRSLs. This sample is located in the manufacturing department nearest the shipping department.

    - Sub-slab vapor analytical results were reported below the large commercial VRSLs and S-1, and S-9. These locations are in the manufacturing department.

    - Indoor air analytical results from IA-5, IA-12, IA-14, and IA-19 through IA-24 were detected below their respective large commercial VALs for the constituents of concern (PCE and TCE). This demonstrates the pressurization system is effectively mitigating vapor intrusion into the building.

    - Sub-slab pressure readings from SS-1 through SS-10 were generally measured at 0.0 in WC. The 0.0 pressure under the building does not appear to have resulted in sub-slab vapors migrating significantly.

    - Readings from remote pressure sensor on the pressurization system in March 2020 averaged 0.2 in WC. Indoor air pressure from BP-2 through BP-9 were generally measured at 0.0 in WC.

        - Graphs illustrating the PCE and TCE indoor air concentrations collected prior to and post installation of the vapor mitigation system in relation to the indoor air pressure measurements **demonstrate that that when the indoor air pressure is slightly less than, equal to, or greater than 0.0, the indoor air concentrations are consistently below their respective VALs for this site.**

        - There does not appear to be a correlation between the indoor air pressure and barometric pressure at this time.

        - Higher indoor air pressure is measured when the wind speed is high. The inverse is also true.

        - Regardless of indoor air pressure and barometric pressure variability, the indoor air analytical results demonstrated there were no VAL exceedances in the building for chlorinated VOCs and the pressurization system is effectively mitigating vapor intrusion.

- PCE is detected in monitoring wells on and offsite above the ES. Overall, groundwater concentrations continue to decrease, and daughter products are present, which demonstrates natural attenuation is occurring.

- Groundwater flow is consistently to the north with a slight northeast flow.

7.0 RECOMMENDATIONS

Below is a summary of the recommendations for future sampling. The proposed sampling schedule is also tabulated on the next page.

- Collect and laboratory analyze sub-slab SS-11 and SS-13 in the office and SS-12 in the basement for VOCs in June and September 2020.

- Collect and laboratory analyze indoor air IAO-1 and IAO-2 in the office and IAB-1 in the basement for VOCs in June and August 2020. An indoor air sample from the restroom near IA-8 for VOCs.

- Collect and laboratory analyze sub-slab vapor samples from SS-1, SS-2, SS-5, and SS-7 through SS-10 for VOCs in June and September 2020. These locations are located in the manufacturing area nearest the offices or are locations that were not sampled or are being sampled to confirm concentrations. These sample could demonstrate there is not a source migrating towards the office and basement.

- Collect and laboratory analyze IA-4, IA-12, IA-14, IA-19 through IA-24 in the manufacturing and shipping departments for VOCs in June and September 2020. These samples could demonstrate the effectiveness of the pressurization system to interrupt the vapor intrusion pathway into the building.

- Collect pressure readings from SS-1 through SS-10 and indoor air pressure readings from BP-1 through BP-10 and BPP-1 through BPP-6 in June and September 2020. Collect pressure readings from the remote sensor on the pressurization system.

- Collect site-wide water levels from MW-1 through MW-7 and groundwater samples from wells MW-2 through MW-4, and MW-7 for VOCs in June.

8.0 SCHEDULE FOR FUTURE SAMPLING

The WDNR prepared a letter dated April 24, 2020. The letter stated, "Sub-slab vapor sampling may be suspended at locations where contaminant concentrations are found to exceed a vapor risk screening level. Indoor air samples should continue to be collected as proposed, with an additional indoor air sample collected in the bathroom adjacent to the IA-8 sampling location during the remaining sampling rounds." The below table is a schedule to complete the additional sampling.

Location and Task	Map IDs	Analysis	Sample Dates
Office			February, March, & June, September
Collect 4 Indoor Air & 2 Co-Located Sub-Slab Vapor Samples	IAO-1, IAO-2, IAO-3 (restroom near IA-8 in June and September), 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 & 1 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 through IA-21 SS-2, SS-3, SS-4, SS-6, SS-7, SS-8	VOCs	February
Collect 9 Indoor Air & 3 Sub-Slab Vapor Samples	IA-5, IA-12, IA-14, IA-19 through IA-24 SS-1, SS-9, SS-10	VOCs	March
Collect 9 Indoor Air & 7 Sub-Slab Vapor Samples	IA-5, IA-12, IA-14, IA-19 through IA-24 SS-1, SS-2, SS-5, SS-7 through SS-10	VOCs	June, September
Collect 9 Indoor Air Pressure Readings	BP-2 through BP-9	Field Measurement	February, March, & June, September
Collect 9 Sub-Slab Pressure Readings	SS-1 through SS-10		February, March, & June, September
Groundwater Sampling			
Site-Wide Water Levels	MW-1 through MW-7	VOCs	March, June
Groundwater Sample Wells	MW-2 through MW-4, MW-7		

*** Samples were collected on February 11 and March 16 and 19, 2020.**

Sincerely,
KEY ENGINEERING GROUP, LTD.

Toni L. Schoen
Senior Project Manager

D'Arcy J. Gravelle, CP, CPG
Principal

cc: Jeffrey Mawicke, Mawicke & Goisman, S.C. (email: jmawicke@mawickelaw.com)
Sheri Reichart, 1101 Gage Inc. (email: slr@charter.net)
Kim Erdman, Schaefer Brush (email: kim@schaeferbrush.com)

Attachments

Table 1	Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results
Table 2	Pre- and Post System Installation Building Pressure Readings
Table 3	Remote Pressure Sensor Building Interior Pressure Readings
Table 4	Groundwater Elevations
Table 5	Groundwater Analytical Results
Figure 1	Site Location Map and Water Well Map
Figure 2	Interior Facility Sampling Locations
Figure 3	Post Remedial Sub-Slab Vapor Analytical Results
Figure 4	Post Remedial Indoor Air Analytical Results
Figure 5	Tetrachloroethene Indoor Air Concentrations Versus Indoor Air Pressure
Figure 6	Trichloroethene Indoor Air Concentrations Versus Indoor Air Pressure
Figure 7	Tetrachloroethene Indoor Air Concentrations Versus Barometric Pressure
Figure 8	Trichloroethene Indoor Air Concentrations Versus Barometric Pressure
Figure 9	Barometric Pressure Versus Indoor Air Pressure
Figure 10	Wind Speed Versus Indoor Air Pressure
Figure 11	Groundwater Flow Map (March 19, 2020)
Attachment 1	Site Investigation Sample Results Notification (WDNR Form 4400-249)
Attachment 2	Sub-Slab Vapor and Indoor Air Laboratory Reports
Attachment 3	Groundwater Laboratory Report
Attachment 4	Photograph Log

Tables

Table 1. 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	Compared to Large Commercial VRSLs					
						Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Sample I.D.					BG-3	SS-1	SS-2	SS-2	SS-3	SS-4	SS-4
Duration of Sample Collection (hrs)					8	30	30	30	30	30	30
Date Collected					10/31/2018	3/16/2020	10/31/2018	2/11/2020	2/11/2020	10/31/2018	2/11/2020
Detected VOCs (ug/m^3) by EPA Method TO-15											
Acetone	14,000,000	140,000	4,620,000	140,000	9.8	23.8	10.0	2.7J	<34.8	8.4	<69.7
Benzene	1,600	16	528	16	<0.22	1.3	<0.28	0.46J	<4.4	1.9	<8.8
Bromomethane	2,200	22	726	22	<0.33	<0.38	<0.42	<0.44	<6.5	<0.40	<13.1
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	2.4J	25.7	4.1J	<0.71	<10.6	3.0J	<21.3
Carbon disulfide	310,000	3,100	102,300	3,100	<0.32	<0.37	5.4	<0.42	<6.3	0.67J	<12.6
Carbon tetrachloride	2,000	20	660	20	<0.62	<0.72	<0.79	<0.82	<12.4	<0.75	<24.7
Chlorobenzene	22,000	220	7,260	220	<0.40	<0.46	<0.50	<0.53	<7.9	0.83J	<15.8
Chloroform	530	5.3	175	5.3	<0.28	5.5	<0.36	<0.38	<5.6	7.6	<11.3
Chloromethane	39,000	390	12,870	390	0.70	<0.26	0.67J	<0.30	<4.5	<0.27	<9.0
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.51	4.2	<0.65	<0.68	<10.2	<0.62	<20.3
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.72	<0.84	<0.91	<0.96	<14.3	<0.87	<28.7
1,3-Dichlorobenzene	--	---	--	---	<0.84	<0.98	<1.1	<1.1	<16.7	<1.0	<33.5
1,4-Dichlorobenzene	1,100	11	363	11	<1.4	<1.7	<1.8	3.5J	<28.8	<1.8	<57.6
Dichlorodifluoromethane	44,000	440	14,520	440	2.4	3.1	2.3	2.5	<8.4	2.1	<16.9
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.38	<0.41	<0.43	<6.5	<0.39	<13.0
1,2-Dichloroethane	470	4.7	155	4.7	<0.22	<0.25	<0.27	<0.29	<4.3	<0.26	<8.6
1,1-Dichloroethene	88,000	880	29,040	880	<0.39	<0.46	<0.50	<0.53	<7.9	<0.48	<15.8
cis-1,2-Dichloroethene	--	---	--	---	<0.32	<0.37	<0.40	<0.42	<6.3	19.5	301
trans-1,2-Dichloroethene	--	---	--	---	<0.41	<0.48	<0.52	<0.55	<8.2	2.7	<16.4
Ethanol	--	---	--	---	4.2	97.7	10.3	4.3J	54.9J	4.7	<46.8
Ethyl acetate	31,000	310	10,230	310	<0.27	<0.32	<0.35	<0.36	24.1	<0.33	<10.9
Ethylbenzene	4,900	49	1,617	49	<0.44	3.1	3.1	1.9	<8.8	5.2	<17.6
4-Ethyltoluene	--	---	--	---	<0.82	2.3J	1.4J	2.2J	<16.4	<1.0	<32.8
N-Heptane	--	---	--	---	<0.55	3.0	<0.70	<0.73	<10.9	<0.66	<21.9
Hexachloro-1,3-butadiene	--	---	--	---	<2.8	<3.3	<3.6	<3.8	<56.7	<3.4	<113
n-Hexane	310,000	3,100	102,300	3,100	<0.45	2.6	<0.57	0.77J	<9.0	<0.54	<17.9
2-Hexanone	13,000	130	4,290	130	<1.1	<1.3	<1.4	<1.4	<21.5	<1.3	<42.9
Methylene Chloride	260,000	2,600	85,800	2,600	2.1J	397	6.6	3.0J	<34.8	4.3J	<69.7
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.75	1.6J	<0.95	<0.99	<14.9	<0.91	<29.8
Naphthalene	360	3.6	119	3.6	<1.9	<2.2	5.5	6.1	<37.7	3.7J	<75.5
2-Propanol	--	---	--	---	<1.0	13.2	<1.3	<1.3	<20.1	<1.2	<40.1
Propylene	1,300,000	13,000	429,000	13,000	<0.21	<0.24	<0.26	<0.27	<4.0	<0.25	<8.1
Styrene	440,000	4,400	145,200	4,400	<0.50	1.3J	<0.63	<0.66	<9.9	<0.60	<19.8

Table 1. 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	Compared to Large Commercial VRSLs					
						Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Sample I.D.					**BG-3**	**SS-1**	**SS-2**	**SS-2**	**SS-3**	**SS-4**	**SS-4**
Duration of Sample Collection (hrs)					**8**	**30**	**30**	**30**	**30**	**30**	**30**
Date Collected					**10/31/2018**	**3/16/2020**	**10/31/2018**	**2/11/2020**	**2/11/2020**	**10/31/2018**	**2/11/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15											
Tetrachloroethene	18,000	180	5,940	180	<0.45	931	200	52.7	**156,000**	**493,000**	**654,000**
Tetrahydrofuran	--	---	--	---	<0.38	124	<0.48	2.7	<7.5	<0.46	<15.0
Toluene	2,200,000	22,000	726,000	22,000	4.7	13.7	2.4	7.2	24.0	5.1	<20.2
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<5.4	<6.2	<6.8	<7.1	<107	<6.5	<214
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.44	6.3	<0.57	<0.59	<8.9	8.2	62.0J
Trichloroethene	880	8.8	290	8.8	<0.37	48.9	2.5	<0.49	68.1	**1,260**	**1,010**
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.4J	1.9	1.1J	1.3J	<10.5	1.1J	<21.1
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.81	5.2	<1.0	<1.1	301	26.5	1,270
1,2,4-Trimethylbenzene	3,100	31	1,023	31	<0.65	8.3	11.0	8.2	<13.0	4.4	<26.0
1,3,5-Trimethylbenzene	--	---	--	---	<0.57	2.9	2.7	2.6	13.2J	1.2J	<23.0
Vinyl Acetate	88,000	880	29,040	880	<0.39	<0.45	<0.49	<0.52	<7.8	<0.47	<15.6
Vinyl Chloride	2,800	28	924	28	<0.18	<0.21	<0.23	<0.24	<3.6	<0.22	<7.3
m&p-Xylene	44,000	440	14,520	440	<1.0	10.1	15.1	6.9	<20.1	21.2	<40.3
o-Xylene	44,000	440	14,520	440	<0.50	4.4	5.7	3.2	<9.9	6.4	<19.8

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

Table 1. 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	Compared to Large Commercial VRSLs						
					Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Sample I.D.					SS-6	SS-7	SS-7	SS-8	SS-8	SS-9	SS-10
Duration of Sample Collection (hrs)					30	30	30	30	30	30	30
Date Collected					2/11/2020	10/31/2018	2/11/2020	10/31/2018	2/11/2020	3/16/2020	3/16/2020
Detected VOCs (ug/m^3) by EPA Method TO-15											
Acetone	14,000,000	140,000	4,620,000	140,000	17.2	22.7	123	6.4	3.8J	21.2	<63.5
Benzene	1,600	16	528	16	0.35J	0.94	0.61J	<0.27	0.45J	1.3	<8.0
Bromomethane	2,200	22	726	22	<0.44	<0.40	<0.44	<0.40	<0.44	<0.38	<11.9
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	10.0	10.1	8.4	3.4J	<0.71	23.7	<19.4
Carbon disulfide	310,000	3,100	102,300	3,100	<0.42	<0.38	<0.42	0.56J	<0.42	<0.37	<11.5
Carbon tetrachloride	2,000	20	660	20	<0.82	<0.75	<0.82	<0.75	<0.82	1.0 J	<22.5
Chlorobenzene	22,000	220	7,260	220	<0.53	<0.48	<0.53	<0.48	<0.53	<0.46	<14.4
Chloroform	530	5.3	175	5.3	<0.38	0.44J	<0.38	<0.34	<0.38	<0.33	<10.3
Chloromethane	39,000	390	12,870	390	<0.30	2.0	0.41J	<0.27	<0.30	<0.26	<8.2
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.68	<0.62	1.1J	0.68J	2.8J	<0.59	<18.5
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.96	<0.87	<0.96	<0.87	<0.96	<0.84	<26.1
1,3-Dichlorobenzene	--	---	--	---	<1.1	<1.0	<1.1	<1.0	<1.1	<0.98	<30.5
1,4-Dichlorobenzene	1,100	11	363	11	2.9J	<1.8	4.6J	<1.8	<1.9	<1.7	<52.5
Dichlorodifluoromethane	44,000	440	14,520	440	2.5	2.1	2.6	2.2	2.5	3.2	<15.4
1,1-Dichloroethane	7,700	77	2,541	77	<0.43	<0.39	<0.43	<0.39	<0.43	<0.38	<11.8
1,2-Dichloroethane	470	4.7	155	4.7	<0.29	<0.26	<0.29	<0.26	<0.29	<0.25	<7.9
1,1-Dichloroethene	88,000	880	29,040	880	<0.53	<0.48	<0.53	<0.48	<0.53	<0.46	<14.4
cis-1,2-Dichloroethene	--	---	--	---	<0.42	<0.38	<0.42	<0.38	<0.42	<0.37	<11.5
trans-1,2-Dichloroethene	--	---	--	---	<0.55	<0.50	<0.55	<0.50	<0.55	<0.48	<15.0
Ethanol	--	---	--	---	7.3J	5.6	77.5	2.2J	23.8	85.6	<42.6
Ethyl acetate	31,000	310	10,230	310	3.4	0.62J	5.9	<0.33	<0.36	<0.32	<10
Ethylbenzene	4,900	49	1,617	49	1.4J	4.8	1.9	3.5	1.9	3.8	<16.0
4-Ethyltoluene	--	---	--	---	1.7J	3.3J	2.7J	<1.0	2.0J	2.2 J	<29.9
N-Heptane	--	---	--	---	<0.73	<0.66	<0.73	<0.66	<0.73	2.7	<20.0
Hexachloro-1,3-butadiene	--	---	--	---	<3.8	<3.4	<3.8	<3.4	<3.8	<3.3	<103
n-Hexane	310,000	3,100	102,300	3,100	<0.60	0.60J	0.98J	<0.54	0.77J	1.9	<16.3
2-Hexanone	13,000	130	4,290	130	<1.4	<1.3	2.3J	<1.3	<1.4	<1.3	<39.1
Methylene Chloride	260,000	2,600	85,800	2,600	<2.3	7.1	4.9J	8.2	6.5J	11.7	<63.5
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.99	<0.91	1.1J	<0.91	<0.99	2.0 J	<27.2
Naphthalene	360	3.6	119	3.6	5.9	17.6	8.0	6.2	6.5	<2.2	<68.8
2-Propanol	--	---	--	---	<1.3	1.8J	48.2	<1.2	<1.3	3.7 J	<36.6
Propylene	1,300,000	13,000	429,000	13,000	0.77	1.2	<0.27	<0.25	<0.27	<0.24	<7.4
Styrene	440,000	4,400	145,200	4,400	<0.66	<0.60	0.92J	<0.60	0.74J	1.5 J	<18.1

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VRSLs						
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**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**	**Sub-Slab**
Sample I.D.					**SS-6**	**SS-7**	**SS-7**	**SS-8**	**SS-8**	**SS-9**	**SS-10**
Duration of Sample Collection (hrs)					**30**	**30**	**30**	**30**	**30**	**30**	**30**
Date Collected					**2/11/2020**	**10/31/2018**	**2/11/2020**	**10/31/2018**	**2/11/2020**	**3/16/2020**	**3/16/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15											
Tetrachloroethene	18,000	180	5,940	180	1,690	13,700	**36,800**	8,850	46.8	237	**42,900**
Tetrahydrofuran	--	---	--	---	1.7	<0.46	2.4	<0.46	1.6	121	67.4
Toluene	2,200,000	22,000	726,000	22,000	5.7	5.0	9.3	2.0	9.7	14.6	<18.4
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<7.1	<6.5	<7.1	<6.5	<7.1	<6.2	<195
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	1.2J	7.9	23.0	<0.54	<0.59	3.8	<16.2
Trichloroethene	880	8.8	290	8.8	0.80J	33.8	34.6	16.1	1.4	14.7	64.8
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3J	1.1J	1.4J	1.2J	1.3J	1.9 J	<19.2
1,1,2-Trichlorotrifluoroethane	---	---	---	---	1.9J	<0.99	3.5	<0.99	<1.1	3.7	<29.6
1,2,4-Trimethylbenzene	3,100	31	1,023	31	6.9	15.3	10.3	3.2	7.4	7.7	<23.7
1,3,5-Trimethylbenzene	--	---	--	---	2.4	4.4	3.8	0.94J	2.8	2.8	<20.9
Vinyl Acetate	88,000	880	29,040	880	<0.52	<0.47	<0.52	<0.47	<0.52	<0.45	<14.2
Vinyl Chloride	2,800	28	924	28	<0.24	<0.22	<0.24	<0.22	<0.24	<0.21	<6.6
m&p-Xylene	44,000	440	14,520	440	4.9	20.8	6.7	14.6	7.0	11.9	<36.7
o-Xylene	44,000	440	14,520	440	2.1	9.0	3.2	4.5	2.8	5.0	<18.1

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

Table 1. 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	Compared to Small Commercial VRSLs					
					Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Sample I.D.					SS-11	SS-11	SS-12	SS-12	SS-13	SS-13
Duration of Sample Collection (hrs)					30	30	30	30	30	30
Date Collected					2/11/2020	3/16/2020	2/11/2020	3/16/2020	2/11/2020	3/16/2020
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	7.2	40.7	5.2	23.4	19.6	28.4
Benzene	1,600	16	528	16	0.56 J	1.5	0.82	1.6	0.62 J	1.2
Bromomethane	2,200	22	726	22	<0.42	<0.37	<0.44	<0.32	<0.44	<0.37
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	1.1 J	27.7	0.95 J	26.0	4.4 J	22.7
Carbon disulfide	310,000	3,100	102,300	3,100	<0.41	<0.35	<0.42	<0.30	<0.42	<0.36
Carbon tetrachloride	2,000	20	660	20	<0.80	<0.69	<0.82	<0.60	<0.82	<0.70
Chlorobenzene	22,000	220	7,260	220	<0.51	<0.44	<0.53	<0.38	<0.53	<0.45
Chloroform	530	5.3	175	5.3	<0.37	<0.32	<0.38	<0.27	<0.38	<0.32
Chloromethane	39,000	390	12,870	390	<0.29	<0.25	<0.30	<0.22	<0.30	<0.26
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.66	4.2	<0.68	<0.49	<0.68	<0.58
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.93	<0.80	<0.96	<0.69	<0.96	<0.82
1,3-Dichlorobenzene	--	---	--	---	<1.1	<0.94	<1.1	<0.81	<1.1	<0.95
1,4-Dichlorobenzene	1,100	11	363	11	6.5	<1.6	5.0 J	<1.4	4.4 J	<0.96
Dichlorodifluoromethane	44,000	440	14,520	440	5.5	6.2	2.8	2.7	2.8	3.4
1,1-Dichloroethane	7,700	77	2,541	77	<0.42	<0.36	<0.43	<0.31	<0.43	<0.37
1,2-Dichloroethane	470	4.7	155	4.7	<0.28	<0.24	<0.29	<0.21	<0.29	<0.25
1,1-Dichloroethene	88,000	880	29,040	880	<0.51	<0.44	<0.53	<0.38	<0.53	<0.45
cis-1,2-Dichloroethene	--	---	--	---	<0.41	<0.35	<0.42	<0.30	<0.42	<0.36
trans-1,2-Dichloroethene	--	---	--	---	<0.53	<0.46	<0.55	<0.40	<0.55	<0.47
Ethanol	--	---	--	---	17.1	92.5	56.7	97.9	97.5	87.5
Ethyl acetate	31,000	310	10,230	310	<0.36	8.6	<0.36	<0.26	<0.36	<0.31
Ethylbenzene	4,900	49	1,617	49	1.8	3.1	2.4	3.0	2.2	3.0
4-Ethyltoluene	--	---	--	---	2.1 J	2.1 J	2.7 J	1.9 J	2.3 J	2.2 J
N-Heptane	--	---	--	---	<0.71	3.0	<0.73	2.8	<0.73	2.6
Hexachloro-1,3-butadiene	--	---	--	---	<3.7	<3.2	<3.8	<2.7	<3.8	<3.2
n-Hexane	310,000	3,100	102,300	3,100	0.68 J	2.4	0.81 J	2.4	1.1 J	2.1
2-Hexanone	13,000	130	4,290	130	<1.4	6.1 J	<1.4	<1.0	<1.4	<1.2
Methylene Chloride	260,000	2,600	85,800	2,600	3.6 J	21.0	<2.3	406	4.8 J	24.5
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.97	1.8 J	<0.99	<0.72	<0.99	<0.85
Naphthalene	360	3.6	119	3.6	7.2	<2.1	7.9	<1.8	7.4	<2.1
2-Propanol	--	---	--	---	2.5 J	9.5	<1.3	9.1	7.6	23.2
Propylene	1,300,000	13,000	429,000	13,000	<0.26	<0.23	<0.27	<0.19	<0.27	<0.23
Styrene	440,000	4,400	145,200	4,400	0.76 J	1.2 J	0.91 J	1.2	0.88 J	1.4

Table 1. 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	Compared to Small Commercial VRSLs					
					Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab	Sub-Slab
Sample I.D.					**SS-11**	**SS-11**	**SS-12**	**SS-12**	**SS-13**	**SS-13**
Duration of Sample Collection (hrs)					**30**	**30**	**30**	**30**	**30**	**30**
Date Collected					**2/11/2020**	**3/16/2020**	**2/11/2020**	**3/16/2020**	**2/11/2020**	**3/16/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	179	81.8	3,500	1,000	5.1	5.4
Tetrahydrofuran	--	---	--	---	3.1	118	4.3	135	3.9	112
Toluene	2,200,000	22,000	726,000	22,000	7.3	13.6	9.6	12.5	7.3	12.2
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<7.0	<6.0	<7.1	<5.2	<7.1	<6.1
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	0.62 J	<0.50	6.6	5.0	<0.59	<0.51
Trichloroethene	880	8.8	290	8.8	6.9	5.0	95.8	57.7	<0.49	<0.41
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3 J	1.5 J	1.8 J	2.0	1.4 J	1.8 J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<1.1	<0.91	3.6	3.3	<1.1	<0.92
1,2,4-Trimethylbenzene	3,100	31	1,023	31	7.8	7.5	9.1	7.5	8.4	8.0
1,3,5-Trimethylbenzene	--	---	--	---	2.9	3.1	3.2	2.7	3.3	3.1
Vinyl Acetate	88,000	880	29,040	880	<0.50	<0.43	<0.52	<0.38	<0.52	<0.44
Vinyl Chloride	2,800	28	924	28	<0.24	<0.20	<0.24	<0.18	<0.24	<0.21
m&p-Xylene	44,000	440	14,520	440	6.5	9.7	8.4	9.5	7.5	10.6
o-Xylene	44,000	440	14,520	440	3.0	4.2	4.1	4.1	3.6	4.4

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

Table 1. 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	Compared to Large Commercial VALs					
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					IA-5	IA-5	IA-5	IA-9	IA-12	IA-12
Duration of Sample Collection (hrs)					8	8	8	8	8	8
Date Collected					10/31/2018	2/11/2020	3/16/2020	10/31/2018	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	98.0	26.9	35.0	68.4	70.8	60.4
Benzene	1,600	16	528	16	0.60	1.2	2.1	0.37J	1.3	0.35J
Bromomethane	2,200	22	726	22	<0.33	<0.38	<0.42	<0.34	<0.44	<0.34
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	50.5	17.6	9.7	38.7	19.7	33.3
Carbon disulfide	310,000	3,100	102,300	3,100	<0.32	<0.37	<0.40	<0.33	<0.38	<0.33
Carbon tetrachloride	2,000	20	660	20	<0.62	<0.72	<0.79	<0.64	<0.67	<0.64
Chlorobenzene	22,000	220	7,260	220	<0.40	<0.46	<0.50	<0.41	<0.38	<0.41
Chloroform	530	5.3	175	5.3	<0.28	<0.33	<0.36	<0.29	<0.49	<0.29
Chloromethane	39,000	390	12,870	390	0.78	0.87	1.7	0.75	<0.28	0.73
Cyclohexane	2,600,000	26,000	858,000	26,000	2.3J	<0.59	2.5J	0.99J	2.5	0.91J
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.72	<0.84	<0.91	<0.74	2.3J	<0.74
1,3-Dichlorobenzene	--	---	--	---	<0.84	<0.98	<1.1	<0.87	<0.99	<0.87
1,4-Dichlorobenzene	1,100	11	363	11	19.0	19.1	13.2	14.8	211	13.7
Dichlorodifluoromethane	44,000	440	14,520	440	2.2	2.5	3.7	2.2	3.6	2.2
1,1-Dichloroethane	7,700	77	2,541	77	<0.32	<0.38	<0.41	<0.34	<0.45	<0.34
1,2-Dichloroethane	470	4.7	155	4.7	<0.22	<0.25	<0.27	<0.22	0.47J	<0.22
1,1-Dichloroethene	88,000	880	29,040	880	<0.39	<0.46	<0.50	<0.41	<0.50	<0.41
cis-1,2-Dichloroethene	--	---	--	---	<0.32	<0.37	<0.40	<0.33	<0.72	<0.33
trans-1,2-Dichloroethene	--	---	--	---	<0.41	<0.48	<0.52	<0.42	<0.63	<0.42
Ethanol	--	---	--	---	175	207	1,180	231	305	217
Ethyl acetate	31,000	310	10,230	310	4.5	1.8	<0.35	<0.28	2.0	<0.28
Ethylbenzene	4,900	49	1,617	49	1.3	1.6	1.8	0.76J	2.7	4.9
4-Ethyltoluene	--	---	--	---	<0.82	<0.96	<1.0	<0.85	0.95J	<0.85
N-Heptane	--	---	--	---	2.8	<0.64	1.5	<0.57	3.8	1.1J
Hexachloro-1,3-butadiene	--	---	--	---	<2.8	<3.3	<3.6	<2.9	<1.8	<2.9
n-Hexane	310,000	3,100	102,300	3,100	2.0	2.2	2.9	0.66J	2.4	0.56J
2-Hexanone	13,000	130	4,290	130	<1.1	<1.3	<1.4	<1.1	<1.3	<1.1
Methylene Chloride	260,000	2,600	85,800	2,600	24.3	15.1	26.4	17.1	42.8	16.4
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	1.2J	<0.87	<0.95	<0.77	<0.75	<0.77
Naphthalene	360	3.6	119	3.6	<1.9	<2.2	3.1J	17.5	5.7	<2.0
2-Propanol	--	---	--	---	6.9	5.0	24.4	6.5	15.0	3.4J
Propylene	1,300,000	13,000	429,000	13,000	<0.21	<0.24	<0.26	<0.21	<0.33	<0.21
Styrene	440,000	4,400	145,200	4,400	33.8	20.3	8.2	1.3J	7.5	0.53J

Table 1. 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	Compared to Large Commercial VALs					
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-5**	**IA-5**	**IA-5**	**IA-9**	**IA-12**	**IA-12**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**10/31/2018**	**2/11/2020**	**3/16/2020**	**10/31/2018**	**4/6/2018**	**10/31/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	0.78J	13.1	18.9	<0.47	30.0	0.54J
Tetrahydrofuran	--	---	--	---	<0.38	0.57J	2.3	<0.39	1.9	<0.39
Toluene	2,200,000	22,000	726,000	22,000	209	177	165	121	66.8	112
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<5.4	<6.2	<6.8	<5.5	<2.0	<5.5
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.44	<0.52	<0.57	<0.46	<0.73	<0.46
Trichloroethene	880	8.8	290	8.8	1.5	1.5	3.0	1.6	4.1	1.5
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.2J	1.3J	2.1	1.1J	1.8J	1.1J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.81	<0.95	<1.0	<0.84	0.92J	<0.84
1,2,4-Trimethylbenzene	3,100	31	1,023	31	1.1J	2.2	2.0	<0.67	4.0	<0.67
1,3,5-Trimethylbenzene	--	---	--	---	<0.57	1.1J	<0.73	<0.59	1.2J	<0.59
Vinyl Acetate	88,000	880	29,040	880	<0.39	<0.45	<0.49	<0.40	1.7	<0.40
Vinyl Chloride	2,800	28	924	28	<0.18	<0.21	<0.23	<0.19	<0.27	<0.19
m&p-Xylene	44,000	440	14,520	440	4.2	5.2	6.3	2.3J	8.9	22.7
o-Xylene	44,000	440	14,520	440	1.3	1.4J	2.0	0.65J	3.0	8.5

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

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs							
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**	**Indoor Air**	**Indoor Air**
Sample I.D.					**IA-12**	**IA-12**	**IA-13**	**IA-14**	**IA-14**	**IA-14**	**IA-14**	**IA-15**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**3/16/2020**	**4/6/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**	**3/16/2020**	**4/6/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15												
Acetone	14,000,000	140,000	4,620,000	140,000	29.9	22.7	63.3	97.2	102	26.8	27.0	90.8
Benzene	1,600	16	528	16	0.68	1.4	1.3	2.3	0.76	1.1	1.6	2.5
Bromomethane	2,200	22	726	22	<0.38	<0.42	<0.32	<0.32	<0.32	<0.38	<0.38	<0.31
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	21.1	6.5	19.5	19.5	48.6	16.2	8.1	19.1
Carbon disulfide	310,000	3,100	102,300	3,100	<0.37	<0.40	<0.28	<0.28	<0.30	<0.37	<0.37	<0.27
Carbon tetrachloride	2,000	20	660	20	<0.72	<0.79	0.51J	0.59J	<0.60	<0.72	<0.72	<0.47
Chlorobenzene	22,000	220	7,260	220	<0.46	<0.50	<0.28	<0.28	<0.38	<0.46	<0.46	<0.27
Chloroform	530	5.3	175	5.3	<0.33	<0.36	<0.36	<0.36	<0.27	<0.33	<0.33	<0.34
Chloromethane	39,000	390	12,870	390	0.85	1.1	<0.21	1.4	0.91	0.92	1.2	<0.20
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.59	<0.65	2.5	6.0	1.8J	<0.59	<0.59	6.8
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.84	<0.91	2.3	<0.51	<0.69	<0.84	<0.84	<0.49
1,3-Dichlorobenzene	--	---	--	---	<0.98	<1.1	<0.72	<0.72	<0.81	<0.98	<0.98	<0.69
1,4-Dichlorobenzene	1,100	11	363	11	18.5	7.3	226	163	38.3	18.4	10.8	143
Dichlorodifluoromethane	44,000	440	14,520	440	2.6	3.0	3.4	3.1	2.3	2.7	2.9	3.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.38	<0.41	<0.33	<0.33	<0.31	<0.38	<0.38	<0.32
1,2-Dichloroethane	470	4.7	155	4.7	<0.25	<0.27	0.41J	<0.31	<0.21	<0.25	<0.25	0.53J
1,1-Dichloroethene	88,000	880	29,040	880	<0.46	<0.50	<0.37	<0.37	<0.38	<0.46	<0.46	<0.35
cis-1,2-Dichloroethene	--	---	--	---	<0.37	<0.40	<0.53	<0.53	<0.30	<0.37	<0.37	<0.51
trans-1,2-Dichloroethene	--	---	--	---	<0.48	<0.52	<0.46	<0.46	<0.40	<0.48	<0.48	<0.44
Ethanol	--	---	--	---	256	914	297	222	179	181	723	234
Ethyl acetate	31,000	310	10,230	310	<0.32	<0.35	1.8	2.4	2.8	1.7	<0.32	3.3
Ethylbenzene	4,900	49	1,617	49	1.8	1.2J	2.7	6.7	1.6	1.5	1.2J	7.4
4-Ethyltoluene	--	---	--	---	<0.96	<1.0	0.84J	2.5	<0.79	<0.96	<0.96	2.6
N-Heptane	--	---	--	---	<0.64	<0.70	3.6	7.0	2.4	1.4J	1.4J	7.9
Hexachloro-1,3-butadiene	--	---	--	---	<3.3	<3.6	<1.3	<1.3	<2.7	<3.3	<3.3	<1.3
n-Hexane	310,000	3,100	102,300	3,100	<0.52	1.8	2.3	7.0	4.0	1.9	1.9	7.8
2-Hexanone	13,000	130	4,290	130	<1.3	<1.4	<0.95	<0.95	<1.0	<1.3	<1.3	<0.91
Methylene Chloride	260,000	2,600	85,800	2,600	17.1	20.9	40.4	29.6	44.4	15.7	18.1	29.8
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.87	<0.95	<0.55	<0.55	1.1J	<0.87	<0.87	0.68J
Naphthalene	360	3.6	119	3.6	<2.2	3.0J	4.7	5.2	1.9J	<2.2	2.7J	5.1
2-Propanol	--	---	--	---	3.8J	20.5	12.6	11.9	13.3	4.2	16.6	14.7
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.26	<0.24	<0.24	<0.20	<0.24	<0.24	<0.23
Styrene	440,000	4,400	145,200	4,400	1.8	2.1	7.9	36.1	13.3	12.7	7.9	36.6

Table 1. 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	Compared to Large Commercial VALs							
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-12**	**IA-12**	**IA-13**	**IA-14**	**IA-14**	**IA-14**	**IA-14**	**IA-15**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**3/16/2020**	**4/6/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**	**3/16/2020**	**4/6/2018**
Detected VOCs (ug/m^3) by EPA Method TO-15												
Tetrachloroethene	18,000	180	5,940	180	4.0	8.6	32.2	118	1.7	16.8	21.9	87.7
Tetrahydrofuran	--	---	--	---	<0.44	1.3	1.8	<0.42	<0.36	<0.44	1.8	<0.41
Toluene	2,200,000	22,000	726,000	22,000	174	116	66.6	85.4	163	170	108	90.2
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.2	<6.8	<1.5	<1.5	<5.2	<6.2	<6.2	<1.4
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.52	<0.57	<0.53	<0.53	<0.43	<0.52	<0.52	<0.51
Trichloroethene	880	8.8	290	8.8	1.6	1.7	4.8	3.7	1.5	1.5	1.7	3.6
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.5J	1.7J	1.6J	1.7J	1.3J	1.4J	1.5J	1.6J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.95	<1.0	0.81J	1.0J	<0.78	<0.95	<0.95	1.1J
1,2,4-Trimethylbenzene	3,100	31	1,023	31	2.1	1.2J	4.0	9.1	1.1J	2.0	1.5J	9.7
1,3,5-Trimethylbenzene	--	---	--	---	1.0J	<0.73	1.0J	2.5	<0.55	1.0J	<0.67	2.6
Vinyl Acetate	88,000	880	29,040	880	<0.45	<0.49	0.88J	2.1	<0.38	<0.45	<0.45	0.81J
Vinyl Chloride	2,800	28	924	28	<0.21	<0.23	<0.20	<0.20	<0.18	<0.21	<0.21	<0.19
m&p-Xylene	44,000	440	14,520	440	5.3	3.7	8.9	27.3	4.9	4.8	4.2	30.6
o-Xylene	44,000	440	14,520	440	1.4J	1.1J	3.1	9.2	1.3	1.2J	1.5	10.1

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

Table 1. 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	Compared to Large Commercial VALs						
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					IA-16	IA-16	IA-17	IA-18	IA-18	IA-19	IA-19
Duration of Sample Collection (hrs)					8	8	8	8	8	8	8
Date Collected					4/6/2018	10/31/2018	4/6/2018	4/6/2018	10/31/2018	2/11/2020	3/16/2020
Detected VOCs (ug/m^3) by EPA Method TO-15											
Acetone	14,000,000	140,000	4,620,000	140,000	93.0	84.6	72.8	82.3	103	48.7	26.5
Benzene	1,600	16	528	16	2.4	0.40J	1.4	2.2	0.40J	0.85	1.3
Bromomethane	2,200	22	726	22	<0.33	<0.34	<0.32	<0.32	<0.35	<0.39	<0.40
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	22.9	52.6	22.7	25.1	72.7	21.5	10.4
Carbon disulfide	310,000	3,100	102,300	3,100	<0.29	<0.33	<0.28	<0.28	<0.34	<0.37	<0.38
Carbon tetrachloride	2,000	20	660	20	0.56J	<0.64	<0.49	<0.49	<0.66	<0.73	<0.75
Chlorobenzene	22,000	220	7,260	220	<0.29	<0.41	<0.28	<0.28	<0.43	<0.47	<0.48
Chloroform	530	5.3	175	5.3	<0.37	<0.29	<0.36	<0.36	<0.30	<0.34	<0.34
Chloromethane	39,000	390	12,870	390	<0.22	0.76	<0.21	<0.21	0.82	1.0	1.2
Cyclohexane	2,600,000	26,000	858,000	26,000	6.2	1.9J	3.4	5.7	3.7	<0.60	<0.62
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.52	<0.74	<0.51	2.5	<0.77	<0.85	<0.87
1,3-Dichlorobenzene	--	---	--	---	<0.75	<0.87	<0.72	<0.72	<0.90	<0.99	<1.0
1,4-Dichlorobenzene	1,100	11	363	11	178	16.1	217	211	14.6	15.3	9.1
Dichlorodifluoromethane	44,000	440	14,520	440	3.2	2.2	3.2	3.3	2.2	2.7	3.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.34	<0.34	<0.33	<0.33	<0.35	<0.38	<0.39
1,2-Dichloroethane	470	4.7	155	4.7	0.50J	<0.22	0.49J	0.49J	<0.23	<0.26	<0.26
1,1-Dichloroethene	88,000	880	29,040	880	<0.38	<0.41	<0.37	<0.37	<0.42	<0.47	<0.48
cis-1,2-Dichloroethene	--	---	--	---	<0.55	<0.33	<0.53	<0.53	<0.34	<0.37	<0.38
trans-1,2-Dichloroethene	--	---	--	---	<0.47	<0.42	<0.46	<0.46	<0.44	<0.49	<0.50
Ethanol	--	---	--	---	282	206	295	329	249	336	1,140
Ethyl acetate	31,000	310	10,230	310	2.5	1.7	2.1	2.7	1.7	2.0	<0.33
Ethylbenzene	4,900	49	1,617	49	8.9	1.2J	3.6	4.7	1.9	1.6	1.5J
4-Ethyltoluene	--	---	--	---	3.2	<0.85	1.4J	2.0	<0.88	<0.97	<1.0
N-Heptane	--	---	--	---	7.3	1.8	4.5	6.0	<0.59	<0.65	1.0J
Hexachloro-1,3-butadiene	--	---	--	---	<1.4	<2.9	<1.3	<1.3	<3.1	<3.4	<3.4
n-Hexane	310,000	3,100	102,300	3,100	7.1	0.87J	2.8	7.3	0.73J	1.8	1.3
2-Hexanone	13,000	130	4,290	130	<0.99	<1.1	<0.95	<0.95	<1.2	<1.3	<1.3
Methylene Chloride	260,000	2,600	85,800	2,600	33.9	18.1	39.6	39.6	18.5	21.3	20.5
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.57	0.94J	<0.55	<0.55	1.3J	<0.89	<0.91
Naphthalene	360	3.6	119	3.6	6.2	<2.0	4.9	6.4	<2.0	2.9J	3.1J
2-Propanol	--	---	--	---	12.4	4.5	11.2	13.8	5.1	13.8	21.4
Propylene	1,300,000	13,000	429,000	13,000	<0.25	<0.21	<0.24	<0.24	<0.22	<0.24	<0.24
Styrene	440,000	4,400	145,200	4,400	29.3	3.9	11.3	12.7	1.1J	5.8	3.3

Table 1. 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	Compared to Large Commercial VALs						
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-16**	**IA-16**	**IA-17**	**IA-18**	**IA-18**	**IA-19**	**IA-19**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**4/6/2018**	**10/31/2018**	**4/6/2018**	**4/6/2018**	**10/31/2018**	**2/11/2020**	**3/16/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15											
Tetrachloroethene	18,000	180	5,940	180	63.5	<0.47	39.5	41.2	<0.49	8.1	11.6
Tetrahydrofuran	--	---	--	---	3.5	<0.39	2.1	3.9	1.3	1.4	1.9
Toluene	2,200,000	22,000	726,000	22,000	111	241	80.4	96.2	349	210	149
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<1.5	<5.5	<1.5	<1.5	<5.8	<6.4	<6.5
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.55	<0.46	<0.53	<0.53	<0.48	<0.53	<0.54
Trichloroethene	880	8.8	290	8.8	4.2	1.5	4.5	4.7	1.6	1.8	2.3
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.5J	1.2J	1.5J	1.6J	1.2J	1.3J	1.7J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	0.84J	<0.84	0.84J	0.84J	<0.87	<0.96	<0.99
1,2,4-Trimethylbenzene	3,100	31	1,023	31	11.4	0.94J	5.4	10.8	1.1J	2.0	1.7J
1,3,5-Trimethylbenzene	--	---	--	---	3.2	<0.59	1.5J	2.1	<0.62	1.2J	<0.70
Vinyl Acetate	88,000	880	29,040	880	1.6	<0.40	1.6	1.9	<0.42	<0.46	<0.47
Vinyl Chloride	2,800	28	924	28	<0.20	<0.19	<0.20	<0.20	<0.20	<0.22	<0.22
m&p-Xylene	44,000	440	14,520	440	37.3	4.0	13.4	17.8	6.2	4.8	4.6
o-Xylene	44,000	440	14,520	440	12.5	1.1J	4.5	5.8	1.7	1.2J	1.3J

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

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Large Commercial VALs						
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**	**Indoor Air**
Sample I.D.					**IA-20**	**IA-20**	**IA-21**	**IA-21**	**IA-22**	**IA-23**	**IA-24**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**3/16/2020**	**2/11/2020**	**3/16/2020**	**3/19/2020**	**3/19/2020**	**3/19/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15											
Acetone	14,000,000	140,000	4,620,000	140,000	24.6	26.6	26.1	22.0	26.1	23.6	21.8
Benzene	1,600	16	528	16	0.61	1.1	0.66	1.1	0.59	0.47 J	1.0
Bromomethane	2,200	22	726	22	<0.40	<0.40	<0.37	<0.38	<0.42	<0.44	<0.44
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	16.0	7.9	18.6	6.8	7.4	5.5 J	3.4 J
Carbon disulfide	310,000	3,100	102,300	3,100	<0.38	<0.38	<0.35	<0.37	<0.40	<0.42	<0.42
Carbon tetrachloride	2,000	20	660	20	<0.75	<0.75	<0.69	<0.72	<0.79	<0.82	<0.82
Chlorobenzene	22,000	220	7,260	220	<0.48	<0.48	<0.44	<0.46	<0.50	<0.53	<0.53
Chloroform	530	5.3	175	5.3	<0.34	<0.34	<0.32	<0.33	<0.36	<0.38	<0.38
Chloromethane	39,000	390	12,870	390	0.82	1.1	0.85	0.99	0.56 J	0.52 J	0.66 J
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.62	1.2J	<0.57	1.2J	<0.65	<0.68	<0.68
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.87	<0.87	<0.80	<0.84	<0.91	<0.96	<0.96
1,3-Dichlorobenzene	--	---	--	---	<1.0	<1.0	<0.94	<0.98	<1.1	<1.1	<1.1
1,4-Dichlorobenzene	1,100	11	363	11	19.7	8.4	17.6	6.9	5.0 J	5.0 J	3.7 J
Dichlorodifluoromethane	44,000	440	14,520	440	2.6	2.9	2.4	2.7	1.9	2.1	2.0
1,1-Dichloroethane	7,700	77	2,541	77	<0.39	<0.39	<0.36	<0.38	<0.41	<0.43	<0.43
1,2-Dichloroethane	470	4.7	155	4.7	<0.26	<0.26	<0.24	<0.25	<0.27	<0.29	<0.29
1,1-Dichloroethene	88,000	880	29,040	880	<0.48	<0.48	<0.44	<0.46	<0.50	<0.53	<0.53
cis-1,2-Dichloroethene	--	---	--	---	<0.38	<0.38	<0.35	<0.37	<0.40	<0.42	<0.42
trans-1,2-Dichloroethene	--	---	--	---	<0.50	<0.50	<0.46	<0.48	<0.52	<0.55	<0.55
Ethanol	--	---	--	---	206	965	216	834	675	943	692
Ethyl acetate	31,000	310	10,230	310	1.2J	<0.33	<0.31	<0.32	1.6	1.0 J	1.6
Ethylbenzene	4,900	49	1,617	49	1.6	1.3J	1.8	0.96J	0.89 J	<0.59	0.76 J
4-Ethyltoluene	--	---	--	---	<1.0	<1.0	<0.92	<0.96	<1.0	<1.1	<1.1
N-Heptane	--	---	--	---	0.73J	<0.66	0.75J	0.69J	0.74 J	<0.73	0.92 J
Hexachloro-1,3-butadiene	--	---	--	---	<3.4	<3.4	<3.2	<3.3	<3.6	<3.8	<3.8
n-Hexane	310,000	3,100	102,300	3,100	1.1J	1.1J	<0.50	1.2J	1.1 J	1.6	1.7
2-Hexanone	13,000	130	4,290	130	<1.3	<1.3	<1.2	<1.3	<1.4	<1.4	<1.4
Methylene Chloride	260,000	2,600	85,800	2,600	17.0	18.5	15.9	16.9	14.0	25.3	8.3
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.91	<0.91	<0.83	<0.87	<0.95	<0.99	<0.99
Naphthalene	360	3.6	119	3.6	<2.3	2.9J	<2.1	2.7J	<2.4	<2.5	<2.5
2-Propanol	--	---	--	---	3.1J	24.5	3.7J	19.3	7.3	4.3 J	6.1
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.24	<0.23	<0.24	<0.26	<0.27	<0.27
Styrene	440,000	4,400	145,200	4,400	1.4J	1.8	1.9	2.1	2.2	2.1	6.9

Table 1. 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	Compared to Large Commercial VALs						
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					**IA-20**	**IA-20**	**IA-21**	**IA-21**	**IA-22**	**IA-23**	**IA-24**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**3/16/2020**	**2/11/2020**	**3/16/2020**	**3/19/2020**	**3/19/2020**	**3/19/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15											
Tetrachloroethene	18,000	180	5,940	180	3.5	7.4	4.3	9.4	5.9	5.0	9.1
Tetrahydrofuran	--	---	--	---	<0.46	0.95J	<0.42	0.91J	2.8	<0.50	1.2 J
Toluene	2,200,000	22,000	726,000	22,000	159	120	161	104	45.4	35.0	31.6
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.5	<6.5	<6.0	<6.2	<6.8	<7.1	<7.1
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.54	<0.54	<0.50	<0.52	<0.57	<0.59	<0.59
Trichloroethene	880	8.8	290	8.8	1.5	2.0	1.4	1.8	1.6	1.6	1.3
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3J	1.5J	2.1	1.5J	0.90 J	1.2 J	<0.70
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.99	<0.99	<0.91	<0.95	<1.0	<1.1	<1.1
1,2,4-Trimethylbenzene	3,100	31	1,023	31	2.0	1.4J	2.1	1.0J	0.97 J	<0.87	<0.87
1,3,5-Trimethylbenzene	--	---	--	---	0.90J	<0.70	0.92J	<0.67	<0.73	<0.77	<0.77
Vinyl Acetate	88,000	880	29,040	880	<0.47	<0.47	<0.43	<0.45	<0.49	<0.52	<0.52
Vinyl Chloride	2,800	28	924	28	<0.22	<0.22	<0.20	<0.21	<0.23	<0.24	<0.24
m&p-Xylene	44,000	440	14,520	440	4.9	4.1	5.5	3.1	2.5 J	1.8 J	2.5 J
o-Xylene	44,000	440	14,520	440	1.3J	1.2J	1.6	0.99J	0.89 J	0.68 J	1.1 J

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

Table 1. 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	Compared to Small Commerical VALs					
					Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
Sample I.D.					IAO-1	IAO-1	IAO-2	IAO-2	IAB-1	IAB-1
Duration of Sample Collection (hrs)					8	8	8	8	8	8
Date Collected					2/11/2020	3/16/2020	2/11/2020	3/16/2020	2/12/2020	3/16/2020
Detected VOCs (ug/m^3) by EPA Method TO-15										
Acetone	14,000,000	140,000	4,620,000	140,000	63.8	52.7	51.5	57.5	89.7	64.8
Benzene	1,600	16	528	16	0.73	1.3	0.66	1.2	0.75	1.2
Bromomethane	2,200	22	726	22	<0.38	<0.40	<0.40	<0.42	<0.40	<0.42
2-Butanone (MEK)	2,200,000	22,000	726,000	22,000	8.7	5.8	6.5	6.8	24.2	8.4
Carbon disulfide	310,000	3,100	102,300	3,100	<0.37	<0.38	<0.38	<0.40	<0.38	<0.40
Carbon tetrachloride	2,000	20	660	20	<0.72	<0.75	<0.75	<0.79	<0.75	<0.79
Chlorobenzene	22,000	220	7,260	220	<0.46	<0.48	<0.48	<0.50	<0.48	<0.50
Chloroform	530	5.3	175	5.3	<0.33	<0.34	<0.34	<0.36	<0.34	<0.36
Chloromethane	39,000	390	12,870	390	0.87	1.3	1.0	1.3	0.88	<0.29
Cyclohexane	2,600,000	26,000	858,000	26,000	<0.59	<0.62	<0.62	1.1J	<0.62	<0.65
1,2-Dichlorobenzene	88,000	880	29,040	880	<0.84	<0.87	<0.87	<0.91	<0.87	<0.91
1,3-Dichlorobenzene	--	---	--	---	<0.98	<1.0	<1.0	<1.1	<1.0	<1.1
1,4-Dichlorobenzene	1,100	11	363	11	195	81.4	172	90.6	194	98.1
Dichlorodifluoromethane	44,000	440	14,520	440	5.2	4.4	4.6	4.4	3.8	5.4
1,1-Dichloroethane	7,700	77	2,541	77	<0.38	<0.39	<0.39	<0.41	<0.39	<0.41
1,2-Dichloroethane	470	4.7	155	4.7	<0.25	<0.26	<0.26	<0.27	<0.26	<0.27
1,1-Dichloroethene	88,000	880	29,040	880	<0.46	<0.48	<0.48	<0.50	<0.48	<0.50
cis-1,2-Dichloroethene	--	---	--	---	<0.37	<0.38	<0.38	<0.40	<0.38	<0.40
trans-1,2-Dichloroethene	--	---	--	---	<0.48	1.1J	<0.50	<0.52	<0.50	<0.52
Ethanol	--	---	--	---	116	1,100	134	1,640	97.3	447
Ethyl acetate	31,000	310	10,230	310	0.88J	<0.33	1.4	1.7	1.5	<0.35
Ethylbenzene	4,900	49	1,617	49	1.1J	1.2J	0.89J	0.98J	1.4J	1.2J
4-Ethyltoluene	--	---	--	---	<0.96	<1.0	<1.0	<1.0	<1.0	<1.0
N-Heptane	--	---	--	---	0.86J	0.95J	1.0J	<0.70	2.1	0.90J
Hexachloro-1,3-butadiene	--	---	--	---	<3.3	<3.4	<3.4	<3.6	<3.4	<3.6
n-Hexane	310,000	3,100	102,300	3,100	0.93J	1.6	0.88J	1.0J	1.2J	1.5
2-Hexanone	13,000	130	4,290	130	<1.3	<1.3	<1.3	<1.4	<1.3	<1.4
Methylene Chloride	260,000	2,600	85,800	2,600	11.4	113	8.0	17.5	14.9	27.7
4-Methyl-2-pentanone (MIBK)	1,300,000	13,000	429,000	13,000	<0.87	<0.91	<0.91	<0.95	<0.91	<0.95
Naphthalene	360	3.6	119	3.6	<2.2	2.8J	<2.3	2.9J	<2.3	<2.4
2-Propanol	--	---	--	---	12.4	60.2	9.0	62.0	8.5	24.5
Propylene	1,300,000	13,000	429,000	13,000	<0.24	<0.24	<0.24	<0.26	<0.24	<0.26
Styrene	440,000	4,400	145,200	4,400	1.5	1.6	2.0	1.4J	1.5	1.6

Table 1. Post System Installation Sub-Slab Vapor and Indoor Air Analytical Results

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

					Compared to Small Commerical VALs					
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.					**IAO-1**	**IAO-1**	**IAO-2**	**IAO-2**	**IAB-1**	**IAB-1**
Duration of Sample Collection (hrs)					**8**	**8**	**8**	**8**	**8**	**8**
Date Collected					**2/11/2020**	**3/16/2020**	**2/11/2020**	**3/16/2020**	**2/12/2020**	**3/16/2020**
Detected VOCs (ug/m^3) by EPA Method TO-15										
Tetrachloroethene	18,000	180	5,940	180	3.3	7.2	2.4	5.8	9.2	17.3
Tetrahydrofuran	--	---	--	---	<0.44	1.4	<0.46	1.1	<0.46	2.3
Toluene	2,200,000	22,000	726,000	22,000	71.6	84.8	51.0	63.1	145	84.5
1,2,4-Trichlorobenzene	880	8.8	290	8.8	<6.2	<6.5	<6.5	<6.8	<6.5	<6.8
1,1,1-Trichloroethane	2,200,000	22,000	726,000	22,000	<0.52	<0.54	<0.54	<0.57	<0.54	<0.57
Trichloroethene	880	8.8	290	8.8	0.86J	1.8	0.52J	1.3	1.3	2.0
Trichlorofluoromethane	310,000	3,100	102,300	3,100	1.3J	1.7J	1.4J	1.8J	1.4J	1.7J
1,1,2-Trichlorotrifluoroethane	---	---	---	---	<0.95	<0.99	<0.99	<1.0	<0.99	<1.0
1,2,4-Trimethylbenzene	3,100	31	1,023	31	2.0	1.6J	1.7J	1.4J	3.2	1.8J
1,3,5-Trimethylbenzene	--	---	--	---	1.0J	<0.70	0.99J	<0.73	1.3J	<0.73
Vinyl Acetate	88,000	880	29,040	880	<0.45	<0.47	<0.47	<0.49	<0.47	<0.49
Vinyl Chloride	2,800	28	924	28	<0.21	<0.22	<0.22	<0.23	<0.22	<0.23
m&p-Xylene	44,000	440	14,520	440	3.1	3.4	2.5J	3.5	3.9	3.3
o-Xylene	44,000	440	14,520	440	<0.58	1.1J	<0.60	1.3J	0.72J	1.0J

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

Table 2. Pre- and Post System Installation Building Pressure Readings

Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Indoor Air Pressure Readings (inches of water)																		
Location	**Office**	**Manufacturing Department**		**Shipping Department**			**Manufacturing Department**						**Shipping Department**		**Manufacturing Department**	**Average Temperature (F)**	**Wind Speed (mph)**	**Barometric Pressure (in Hg)**	**Vapor Mitigation System**
Date	**BP-1**	**BP-2**	**BP-3**	**BP-4**	**BP-5**	**BP-6**	**BP-7**	**BP-8**	**BP-9**	**BBP-1**	**BBP-2**	**BBP-3**	**BBP-4**	**BBP-5**	**BBP-6**				
1/16/2018	-0.083	-0.040	-0.050	-0.038	-0.035	-0.028	-0.025	-0.028	NA	NM	NM	NM	NM	NM	NM	14.8	14	29.5	Pre-Installation
4/5/2018	-0.014	-0.022	-0.018	-0.017	-0.002	-0.006	-0.010	-0.024	-0.018	NM	NM	NM	NM	NM	NM	26.3	15	29.2	Post Installation (System Optimized by July 2018)
4/20/2018	-0.008	-0.019	-0.009	-0.004	-0.005	-0.011	-0.011	-0.014	-0.012	NM	NM	NM	NM	NM	NM	37.3	9	29.5	
7/3/2018	0.012	0.011	0.014	0.012	0.011	0.012	0.002	0.008	0.003	NM	NM	NM	NM	NM	NM	68.6	8	29.2	
7/19/2018	0.020	0.020	0.012	0.006	0.012	0.022	0.014	0.007	0.004	NM	NM	NM	NM	NM	NM	64.8	14	29.1	
10/30/2018	0.06	0.03	0.01	0.01	0.03	0.03	0.02	0.03	0.02	NM	NM	NM	NM	NM	NM	46.8	12	29.0	
2/11/2020	0.006	0.023	0.040	0.020	0.002	0.017	0.004	0.002	0.024	0.020	0.020	0.007	0.011	0.007	0.015	21.5	18	29.1	
3/23/2020	0.000	0.000	0.000	0.000	0.000	0.004	-0.009	0.000	0.016	0.000	0.000	0.000	0.000	0.000	0.000	32.7	9	29.2	

Sub-Slab Pressure Readings (inches of water)														
Location	**Manufacturing Department**			**Shipping Department**			**Manufacturing Department**				**Office**	**Basement**	**Office**	
Date	**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**	**System Installation**
7/19/2018	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	NM	NM	NM	Post Installation
10/30/2018	0.000	0.000	0.000	0.000	0.000	-0.010	0.000	0.000	-0.001	-0.005	NM	NM	NM	
2/11/2020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
3/23/2020	0.000	0.000	0.000	0.000	-0.001	0.000	-0.004	0.000	0.000	0.000	0.000	0.000	0.000	

Measurements collected with hand-held micromanometer.

Indoor air pressure readings are in relation to outdoor air.

Sub-slab pressure readings are in relation to indoor air.

Sub-slab pressure points SS-1 through SS-13 are designed to collect data from immediately below the concrete floor.

F - Fahrenheit

in Hg - inches of mercury

mph - miles per hour

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/1/2020 0:00	0.01
1/1/2020 2:00	0.01
1/1/2020 4:00	0.01
1/1/2020 6:00	0.01
1/1/2020 8:00	0.02
1/1/2020 10:00	0.01
1/1/2020 12:00	0.03
1/1/2020 14:00	0.01
1/1/2020 16:00	0.03
1/1/2020 18:00	0.02
1/1/2020 20:00	0.03
1/1/2020 22:00	0.02
1/2/2020 0:00	0.01
1/2/2020 2:00	0.03
1/2/2020 4:00	0.03
1/2/2020 6:00	0.03
1/2/2020 8:00	0.02
1/2/2020 10:00	0.03
1/2/2020 12:00	0.03
1/2/2020 14:00	0.02
1/2/2020 16:00	0.02
1/2/2020 18:00	0.01
1/2/2020 20:00	0.01
1/2/2020 22:00	0.01
1/3/2020 0:00	0.01
1/3/2020 2:00	0.01
1/3/2020 4:00	0.01
1/3/2020 6:00	0.02
1/3/2020 8:00	-0.01
1/3/2020 10:00	0.00
1/3/2020 12:00	-0.01
1/3/2020 14:00	0.01
1/3/2020 16:00	0.01
1/3/2020 18:00	0.01
1/3/2020 20:00	0.01
1/3/2020 22:00	0.01
1/4/2020 0:00	0.01
1/4/2020 2:00	0.01
1/4/2020 4:00	0.01
1/4/2020 6:00	0.01
1/4/2020 8:00	0.02
1/4/2020 10:00	0.02
1/4/2020 12:00	0.02
1/4/2020 14:00	0.01
1/4/2020 16:00	0.04
1/4/2020 18:00	0.02
1/4/2020 20:00	0.01
1/4/2020 22:00	0.01
1/5/2020 0:00	0.01
1/5/2020 2:00	0.01
1/5/2020 4:00	0.01
1/5/2020 6:00	0.01
1/5/2020 8:00	0.01
1/5/2020 10:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/5/2020 12:00	0.01
1/5/2020 14:00	0.02
1/5/2020 16:00	0.05
1/5/2020 18:00	0.05
1/5/2020 20:00	0.03
1/5/2020 22:00	0.04
1/6/2020 0:00	0.02
1/6/2020 2:00	0.02
1/6/2020 4:00	0.02
1/6/2020 6:00	0.02
1/6/2020 8:00	0.03
1/6/2020 10:00	0.04
1/6/2020 12:00	0.03
1/6/2020 14:00	0.02
1/6/2020 16:00	0.02
1/6/2020 18:00	0.01
1/6/2020 20:00	0.01
1/6/2020 22:00	0.01
1/7/2020 0:00	0.02
1/7/2020 2:00	0.01
1/7/2020 4:00	0.01
1/7/2020 6:00	0.02
1/7/2020 8:00	0.02
1/7/2020 10:00	0.03
1/7/2020 12:00	0.03
1/7/2020 14:00	0.03
1/7/2020 16:00	0.02
1/7/2020 18:00	0.04
1/7/2020 20:00	0.04
1/7/2020 22:00	0.05
1/8/2020 0:00	0.01
1/8/2020 2:00	0.01
1/8/2020 4:00	0.02
1/8/2020 6:00	0.01
1/8/2020 8:00	0.00
1/8/2020 10:00	0.01
1/8/2020 12:00	0.01
1/8/2020 14:00	0.01
1/8/2020 16:00	0.01
1/8/2020 18:00	0.02
1/8/2020 20:00	0.02
1/8/2020 22:00	0.02
1/9/2020 0:00	0.02
1/9/2020 2:00	0.03
1/9/2020 4:00	0.02
1/9/2020 6:00	0.02
1/9/2020 8:00	0.02
1/9/2020 10:00	0.02
1/9/2020 12:00	0.04
1/9/2020 14:00	0.04
1/9/2020 16:00	0.03
1/9/2020 18:00	0.02
1/9/2020 20:00	0.03
1/9/2020 22:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/10/2020 0:00	0.02
1/10/2020 2:00	0.02
1/10/2020 4:00	0.02
1/10/2020 6:00	0.01
1/10/2020 8:00	0.01
1/10/2020 10:00	0.01
1/10/2020 12:00	0.01
1/10/2020 14:00	0.00
1/10/2020 16:00	0.04
1/10/2020 18:00	0.02
1/10/2020 20:00	0.01
1/10/2020 22:00	0.04
1/11/2020 0:00	0.01
1/11/2020 2:00	0.01
1/11/2020 4:00	-0.01
1/11/2020 6:00	0.01
1/11/2020 8:00	0.01
1/11/2020 10:00	0.02
1/11/2020 12:00	0.01
1/11/2020 14:00	0.02
1/11/2020 16:00	0.00
1/11/2020 18:00	-0.01
1/11/2020 20:00	0.01
1/11/2020 22:00	0.02
1/12/2020 0:00	0.01
1/12/2020 2:00	0.01
1/12/2020 4:00	0.02
1/12/2020 6:00	0.01
1/12/2020 8:00	0.02
1/12/2020 10:00	0.02
1/12/2020 12:00	0.02
1/12/2020 14:00	0.02
1/12/2020 16:00	0.02
1/12/2020 18:00	0.02
1/12/2020 20:00	0.01
1/12/2020 22:00	0.02
1/13/2020 0:00	0.01
1/13/2020 2:00	0.01
1/13/2020 4:00	0.02
1/13/2020 6:00	0.02
1/13/2020 8:00	0.02
1/13/2020 10:00	0.02
1/13/2020 12:00	0.01
1/13/2020 14:00	0.01
1/13/2020 16:00	0.02
1/13/2020 18:00	0.02
1/13/2020 20:00	0.03
1/13/2020 22:00	0.02
1/14/2020 0:00	0.01
1/14/2020 2:00	0.01
1/14/2020 4:00	0.01
1/14/2020 6:00	0.01
1/14/2020 8:00	0.02
1/14/2020 10:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/14/2020 12:00	0.04
1/14/2020 14:00	0.02
1/14/2020 16:00	0.02
1/14/2020 18:00	0.01
1/14/2020 20:00	0.01
1/14/2020 22:00	0.01
1/15/2020 0:00	0.01
1/15/2020 2:00	0.01
1/15/2020 4:00	0.01
1/15/2020 6:00	0.01
1/15/2020 8:00	0.02
1/15/2020 10:00	0.01
1/15/2020 12:00	0.01
1/15/2020 14:00	0.01
1/15/2020 16:00	0.01
1/15/2020 18:00	0.03
1/15/2020 20:00	0.02
1/15/2020 22:00	0.02
1/16/2020 0:00	0.03
1/16/2020 2:00	0.05
1/16/2020 4:00	0.05
1/16/2020 6:00	0.02
1/16/2020 8:00	0.01
1/16/2020 10:00	0.03
1/16/2020 12:00	0.01
1/16/2020 14:00	0.03
1/16/2020 16:00	0.02
1/16/2020 18:00	0.02
1/16/2020 20:00	0.02
1/16/2020 22:00	0.01
1/17/2020 0:00	0.01
1/17/2020 2:00	0.01
1/17/2020 4:00	0.01
1/17/2020 6:00	0.02
1/17/2020 8:00	0.01
1/17/2020 10:00	0.02
1/17/2020 12:00	0.01
1/17/2020 14:00	0.03
1/17/2020 16:00	0.04
1/17/2020 18:00	0.03
1/17/2020 20:00	0.03
1/17/2020 22:00	0.04
1/18/2020 0:00	0.03
1/18/2020 2:00	0.02
1/18/2020 4:00	0.02
1/18/2020 6:00	0.02
1/18/2020 8:00	0.01
1/18/2020 10:00	0.02
1/18/2020 12:00	0.01
1/18/2020 14:00	0.04
1/18/2020 16:00	0.05
1/18/2020 18:00	0.04
1/18/2020 20:00	0.01
1/18/2020 22:00	0.03

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/19/2020 0:00	0.03
1/19/2020 2:00	0.04
1/19/2020 4:00	0.03
1/19/2020 6:00	0.01
1/19/2020 8:00	0.03
1/19/2020 10:00	0.03
1/19/2020 12:00	0.02
1/19/2020 14:00	0.01
1/19/2020 16:00	0.01
1/19/2020 18:00	0.01
1/19/2020 20:00	0.02
1/19/2020 22:00	0.01
1/20/2020 0:00	0.01
1/20/2020 2:00	0.01
1/20/2020 4:00	0.01
1/20/2020 6:00	0.01
1/20/2020 8:00	0.01
1/20/2020 10:00	0.02
1/20/2020 12:00	0.01
1/20/2020 14:00	0.01
1/20/2020 16:00	0.01
1/20/2020 18:00	0.01
1/20/2020 20:00	0.01
1/20/2020 22:00	0.01
1/21/2020 0:00	0.01
1/21/2020 2:00	0.01
1/21/2020 4:00	0.02
1/21/2020 6:00	0.01
1/21/2020 8:00	-0.01
1/21/2020 10:00	0.01
1/21/2020 12:00	0.01
1/21/2020 14:00	0.06
1/21/2020 16:00	0.02
1/21/2020 18:00	0.01
1/21/2020 20:00	0.02
1/21/2020 22:00	0.02
1/22/2020 0:00	0.02
1/22/2020 2:00	0.02
1/22/2020 4:00	0.02
1/22/2020 6:00	0.02
1/22/2020 8:00	0.02
1/22/2020 10:00	0.02
1/22/2020 12:00	0.03
1/22/2020 14:00	0.01
1/22/2020 16:00	0.01
1/22/2020 18:00	0.01
1/22/2020 20:00	0.01
1/22/2020 22:00	0.02
1/23/2020 0:00	0.02
1/23/2020 2:00	0.01
1/23/2020 4:00	0.01
1/23/2020 6:00	0.01
1/23/2020 8:00	0.01
1/23/2020 10:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/23/2020 12:00	0.01
1/23/2020 14:00	0.02
1/23/2020 16:00	0.01
1/23/2020 18:00	0.02
1/23/2020 20:00	0.02
1/23/2020 22:00	0.02
1/24/2020 0:00	0.02
1/24/2020 2:00	0.02
1/24/2020 4:00	0.02
1/24/2020 6:00	0.02
1/24/2020 8:00	0.02
1/24/2020 10:00	0.02
1/24/2020 12:00	0.01
1/24/2020 14:00	0.01
1/24/2020 16:00	0.01
1/24/2020 18:00	0.02
1/24/2020 20:00	0.01
1/24/2020 22:00	0.01
1/25/2020 0:00	0.01
1/25/2020 2:00	0.01
1/25/2020 4:00	0.01
1/25/2020 6:00	0.01
1/25/2020 8:00	0.02
1/25/2020 10:00	0.02
1/25/2020 12:00	0.01
1/25/2020 14:00	0.03
1/25/2020 16:00	0.01
1/25/2020 18:00	0.02
1/25/2020 20:00	0.01
1/25/2020 22:00	0.02
1/26/2020 0:00	0.02
1/26/2020 2:00	0.03
1/26/2020 4:00	0.02
1/26/2020 6:00	0.02
1/26/2020 8:00	0.02
1/26/2020 10:00	0.03
1/26/2020 12:00	0.02
1/26/2020 14:00	0.02
1/26/2020 16:00	0.02
1/26/2020 18:00	0.02
1/26/2020 20:00	0.01
1/26/2020 22:00	0.01
1/27/2020 0:00	0.01
1/27/2020 2:00	0.01
1/27/2020 4:00	0.01
1/27/2020 6:00	0.01
1/27/2020 8:00	0.01
1/27/2020 10:00	0.01
1/27/2020 12:00	0.02
1/27/2020 14:00	0.01
1/27/2020 16:00	0.01
1/27/2020 18:00	0.01
1/27/2020 20:00	0.01
1/27/2020 22:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
1/28/2020 0:00	0.01
1/28/2020 2:00	0.01
1/28/2020 4:00	0.02
1/28/2020 6:00	0.01
1/28/2020 8:00	0.01
1/28/2020 10:00	0.02
1/28/2020 12:00	0.02
1/28/2020 14:00	0.02
1/28/2020 16:00	0.01
1/28/2020 18:00	0.01
1/28/2020 20:00	0.01
1/28/2020 22:00	0.01
1/29/2020 0:00	0.01
1/29/2020 2:00	0.01
1/29/2020 4:00	0.01
1/29/2020 6:00	0.01
1/29/2020 8:00	-0.01
1/29/2020 10:00	0.00
1/29/2020 12:00	0.01
1/29/2020 14:00	0.01
1/29/2020 16:00	0.01
1/29/2020 18:00	0.01
1/29/2020 20:00	0.01
1/29/2020 22:00	0.01
1/30/2020 0:00	0.01
1/30/2020 2:00	0.01
1/30/2020 4:00	0.02
1/30/2020 6:00	0.02
1/30/2020 8:00	0.01
1/30/2020 10:00	0.01
1/30/2020 12:00	0.01
1/30/2020 14:00	0.01
1/30/2020 16:00	0.02
1/30/2020 18:00	0.01
1/30/2020 20:00	0.02
1/30/2020 22:00	0.01
1/31/2020 0:00	0.02
1/31/2020 2:00	0.02
1/31/2020 4:00	0.01
1/31/2020 6:00	0.01
1/31/2020 8:00	0.01
1/31/2020 10:00	0.01
1/31/2020 12:00	-0.01
1/31/2020 14:00	0.00
1/31/2020 16:00	0.01
1/31/2020 18:00	0.01
1/31/2020 20:00	0.01
1/31/2020 22:00	0.01
Monthly Average	**0.02**
2/1/2020 0:00	0.01
2/1/2020 2:00	0.01
2/1/2020 4:00	0.01
2/1/2020 6:00	0.02
2/1/2020 8:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/1/2020 10:00	0.02
2/1/2020 12:00	0.05
2/1/2020 14:00	0.03
2/1/2020 16:00	0.03
2/1/2020 18:00	0.02
2/1/2020 20:00	0.02
2/1/2020 22:00	0.03
2/2/2020 0:00	0.03
2/2/2020 2:00	0.02
2/2/2020 4:00	0.05
2/2/2020 6:00	0.03
2/2/2020 8:00	0.03
2/2/2020 10:00	0.08
2/2/2020 12:00	0.03
2/2/2020 14:00	0.03
2/2/2020 16:00	0.02
2/2/2020 18:00	0.02
2/2/2020 20:00	0.01
2/2/2020 22:00	0.01
2/3/2020 0:00	0.01
2/3/2020 2:00	0.01
2/3/2020 4:00	0.01
2/3/2020 6:00	0.01
2/3/2020 8:00	0.01
2/3/2020 10:00	0.02
2/3/2020 12:00	0.02
2/3/2020 14:00	0.02
2/3/2020 16:00	0.03
2/3/2020 18:00	0.01
2/3/2020 20:00	0.02
2/3/2020 22:00	0.02
2/4/2020 0:00	0.00
2/4/2020 2:00	0.03
2/4/2020 4:00	0.02
2/4/2020 6:00	0.01
2/4/2020 8:00	0.03
2/4/2020 10:00	0.00
2/4/2020 12:00	0.00
2/4/2020 14:00	0.01
2/4/2020 16:00	0.01
2/4/2020 18:00	0.01
2/4/2020 20:00	0.01
2/4/2020 22:00	0.01
2/5/2020 0:00	0.01
2/5/2020 2:00	0.01
2/5/2020 4:00	0.02
2/5/2020 6:00	0.01
2/5/2020 8:00	0.01
2/5/2020 10:00	0.02
2/5/2020 12:00	0.02
2/5/2020 14:00	0.03
2/5/2020 16:00	0.03
2/5/2020 18:00	0.02
2/5/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/5/2020 22:00	0.01
2/6/2020 0:00	0.02
2/6/2020 2:00	0.01
2/6/2020 4:00	0.02
2/6/2020 6:00	0.02
2/6/2020 8:00	0.01
2/6/2020 10:00	0.01
2/6/2020 12:00	0.01
2/6/2020 14:00	0.01
2/6/2020 16:00	0.01
2/6/2020 18:00	0.01
2/6/2020 20:00	0.02
2/6/2020 22:00	0.01
2/7/2020 0:00	0.01
2/7/2020 2:00	0.02
2/7/2020 4:00	0.01
2/7/2020 6:00	0.01
2/7/2020 8:00	0.01
2/7/2020 10:00	0.01
2/7/2020 12:00	0.02
2/7/2020 14:00	0.02
2/7/2020 16:00	0.02
2/7/2020 18:00	0.02
2/7/2020 20:00	0.01
2/7/2020 22:00	0.01
2/8/2020 0:00	0.01
2/8/2020 2:00	0.01
2/8/2020 4:00	0.02
2/8/2020 6:00	0.02
2/8/2020 8:00	0.01
2/8/2020 10:00	0.03
2/8/2020 12:00	0.01
2/8/2020 14:00	0.02
2/8/2020 16:00	0.02
2/8/2020 18:00	0.01
2/8/2020 20:00	0.01
2/8/2020 22:00	0.01
2/9/2020 0:00	0.01
2/9/2020 2:00	0.01
2/9/2020 4:00	0.01
2/9/2020 6:00	0.03
2/9/2020 8:00	0.02
2/9/2020 10:00	0.05
2/9/2020 12:00	0.03
2/9/2020 14:00	0.02
2/9/2020 16:00	0.02
2/9/2020 18:00	0.01
2/9/2020 20:00	0.03
2/9/2020 22:00	0.01
2/10/2020 0:00	0.01
2/10/2020 2:00	0.01
2/10/2020 4:00	0.02
2/10/2020 6:00	0.02
2/10/2020 8:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/10/2020 10:00	0.01
2/10/2020 12:00	0.02
2/10/2020 14:00	0.02
2/10/2020 16:00	0.02
2/10/2020 18:00	0.01
2/10/2020 20:00	0.02
2/10/2020 22:00	0.01
2/11/2020 0:00	0.02
2/11/2020 2:00	0.02
2/11/2020 4:00	0.01
2/11/2020 6:00	0.01
2/11/2020 8:00	0.03
2/11/2020 10:00	0.02
2/11/2020 12:00	0.04
2/11/2020 14:00	0.04
2/11/2020 16:00	0.01
2/11/2020 18:00	0.02
2/11/2020 20:00	0.02
2/11/2020 22:00	0.02
2/12/2020 0:00	0.02
2/12/2020 2:00	0.02
2/12/2020 4:00	0.01
2/12/2020 6:00	0.02
2/12/2020 8:00	0.01
2/12/2020 10:00	0.01
2/12/2020 12:00	0.02
2/12/2020 14:00	0.02
2/12/2020 16:00	0.02
2/12/2020 18:00	0.01
2/12/2020 20:00	0.02
2/12/2020 22:00	0.01
2/13/2020 0:00	0.01
2/13/2020 2:00	0.03
2/13/2020 4:00	0.01
2/13/2020 6:00	0.01
2/13/2020 8:00	0.01
2/13/2020 10:00	0.01
2/13/2020 12:00	0.02
2/13/2020 14:00	0.03
2/13/2020 16:00	0.01
2/13/2020 18:00	0.01
2/13/2020 20:00	0.02
2/13/2020 22:00	0.03
2/14/2020 0:00	0.02
2/14/2020 2:00	0.01
2/14/2020 4:00	0.01
2/14/2020 6:00	0.01
2/14/2020 8:00	0.01
2/14/2020 10:00	0.01
2/14/2020 12:00	0.00
2/14/2020 14:00	0.02
2/14/2020 16:00	0.01
2/14/2020 18:00	0.03
2/14/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/14/2020 22:00	0.01
2/15/2020 0:00	0.03
2/15/2020 2:00	0.02
2/15/2020 4:00	0.04
2/15/2020 6:00	0.03
2/15/2020 8:00	0.05
2/15/2020 10:00	0.03
2/15/2020 12:00	0.05
2/15/2020 14:00	0.05
2/15/2020 16:00	0.02
2/15/2020 18:00	0.02
2/15/2020 20:00	0.01
2/15/2020 22:00	0.02
2/16/2020 0:00	0.01
2/16/2020 2:00	0.01
2/16/2020 4:00	0.01
2/16/2020 6:00	0.01
2/16/2020 8:00	0.01
2/16/2020 10:00	0.01
2/16/2020 12:00	0.02
2/16/2020 14:00	0.01
2/16/2020 16:00	0.01
2/16/2020 18:00	0.01
2/16/2020 20:00	0.01
2/16/2020 22:00	0.02
2/17/2020 0:00	0.02
2/17/2020 2:00	0.02
2/17/2020 4:00	0.03
2/17/2020 6:00	0.02
2/17/2020 8:00	0.03
2/17/2020 10:00	0.03
2/17/2020 12:00	0.02
2/17/2020 14:00	0.03
2/17/2020 16:00	0.04
2/17/2020 18:00	0.02
2/17/2020 20:00	0.03
2/17/2020 22:00	0.02
2/18/2020 0:00	0.01
2/18/2020 2:00	0.04
2/18/2020 4:00	0.03
2/18/2020 6:00	0.01
2/18/2020 8:00	0.05
2/18/2020 10:00	0.01
2/18/2020 12:00	0.04
2/18/2020 14:00	0.03
2/18/2020 16:00	0.02
2/18/2020 18:00	0.02
2/18/2020 20:00	0.02
2/18/2020 22:00	0.02
2/19/2020 0:00	0.02
2/19/2020 2:00	0.02
2/19/2020 4:00	0.02
2/19/2020 6:00	0.02
2/19/2020 8:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/19/2020 10:00	0.02
2/19/2020 12:00	0.02
2/19/2020 14:00	0.03
2/19/2020 16:00	0.03
2/19/2020 18:00	0.01
2/19/2020 20:00	0.02
2/19/2020 22:00	0.01
2/20/2020 0:00	0.02
2/20/2020 2:00	0.01
2/20/2020 4:00	0.02
2/20/2020 6:00	0.01
2/20/2020 8:00	0.00
2/20/2020 10:00	0.00
2/20/2020 12:00	0.01
2/20/2020 14:00	0.00
2/20/2020 16:00	0.02
2/20/2020 18:00	0.02
2/20/2020 20:00	0.02
2/20/2020 22:00	0.02
2/21/2020 0:00	0.02
2/21/2020 2:00	0.02
2/21/2020 4:00	0.03
2/21/2020 6:00	0.01
2/21/2020 8:00	0.01
2/21/2020 10:00	0.02
2/21/2020 12:00	0.01
2/21/2020 14:00	0.03
2/21/2020 16:00	0.01
2/21/2020 18:00	0.03
2/21/2020 20:00	0.03
2/21/2020 22:00	0.04
2/22/2020 0:00	0.02
2/22/2020 2:00	0.02
2/22/2020 4:00	0.02
2/22/2020 6:00	0.02
2/22/2020 8:00	0.03
2/22/2020 10:00	0.05
2/22/2020 12:00	0.03
2/22/2020 14:00	0.04
2/22/2020 16:00	0.02
2/22/2020 18:00	0.02
2/22/2020 20:00	0.01
2/22/2020 22:00	0.02
2/23/2020 0:00	0.03
2/23/2020 2:00	0.01
2/23/2020 4:00	0.01
2/23/2020 6:00	0.02
2/23/2020 8:00	0.02
2/23/2020 10:00	0.03
2/23/2020 12:00	0.02
2/23/2020 14:00	0.02
2/23/2020 16:00	0.03
2/23/2020 18:00	0.02
2/23/2020 20:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/23/2020 22:00	0.01
2/24/2020 0:00	0.01
2/24/2020 2:00	0.01
2/24/2020 4:00	0.01
2/24/2020 6:00	0.01
2/24/2020 8:00	0.02
2/24/2020 10:00	0.02
2/24/2020 12:00	0.03
2/24/2020 14:00	0.02
2/24/2020 16:00	0.01
2/24/2020 18:00	0.03
2/24/2020 20:00	0.02
2/24/2020 22:00	0.02
2/25/2020 0:00	0.03
2/25/2020 2:00	0.02
2/25/2020 4:00	0.01
2/25/2020 6:00	0.02
2/25/2020 8:00	0.01
2/25/2020 10:00	0.04
2/25/2020 12:00	0.00
2/25/2020 14:00	0.04
2/25/2020 16:00	0.02
2/25/2020 18:00	0.02
2/25/2020 20:00	0.04
2/25/2020 22:00	0.01
2/26/2020 0:00	0.00
2/26/2020 2:00	0.01
2/26/2020 4:00	0.01
2/26/2020 6:00	0.01
2/26/2020 8:00	0.01
2/26/2020 10:00	0.00
2/26/2020 12:00	-0.01
2/26/2020 14:00	0.01
2/26/2020 16:00	0.01
2/26/2020 18:00	0.02
2/26/2020 20:00	0.02
2/26/2020 22:00	0.02
2/27/2020 0:00	0.02
2/27/2020 2:00	0.02
2/27/2020 4:00	0.01
2/27/2020 6:00	0.01
2/27/2020 8:00	0.01
2/27/2020 10:00	0.00
2/27/2020 12:00	0.01
2/27/2020 14:00	0.02
2/27/2020 16:00	0.03
2/27/2020 18:00	0.02
2/27/2020 20:00	0.01
2/27/2020 22:00	0.02
2/28/2020 0:00	0.01
2/28/2020 2:00	0.02
2/28/2020 4:00	0.02
2/28/2020 6:00	0.02
2/28/2020 8:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
2/28/2020 10:00	0.01
2/28/2020 12:00	0.04
2/28/2020 14:00	0.02
2/28/2020 16:00	0.02
2/28/2020 18:00	0.02
2/28/2020 20:00	0.02
2/28/2020 22:00	0.03
2/29/2020 0:00	0.02
2/29/2020 2:00	0.01
2/29/2020 4:00	0.01
2/29/2020 6:00	0.01
2/29/2020 8:00	0.02
2/29/2020 10:00	0.02
2/29/2020 12:00	0.02
2/29/2020 14:00	0.02
2/29/2020 16:00	0.02
2/29/2020 18:00	0.01
2/29/2020 20:00	0.01
2/29/2020 22:00	0.01
Monthly Average	0.02
3/1/2020 0:00	0.02
3/1/2020 2:00	0.01
3/1/2020 4:00	0.02
3/1/2020 6:00	0.04
3/1/2020 8:00	0.02
3/1/2020 10:00	0.05
3/1/2020 12:00	0.04
3/1/2020 14:00	0.03
3/1/2020 16:00	0.03
3/1/2020 18:00	0.02
3/1/2020 20:00	0.01
3/1/2020 22:00	0.01
3/2/2020 0:00	0.02
3/2/2020 2:00	0.02
3/2/2020 4:00	0.02
3/2/2020 6:00	0.02
3/2/2020 8:00	0.02
3/2/2020 10:00	0.01
3/2/2020 12:00	0.03
3/2/2020 14:00	0.03
3/2/2020 16:00	0.02
3/2/2020 18:00	0.01
3/2/2020 20:00	0.01
3/2/2020 22:00	0.01
3/3/2020 0:00	0.01
3/3/2020 2:00	0.01
3/3/2020 4:00	0.02
3/3/2020 6:00	0.01
3/3/2020 8:00	0.02
3/3/2020 10:00	0.03
3/3/2020 12:00	0.02
3/3/2020 14:00	0.03
3/3/2020 16:00	0.04
3/3/2020 18:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/3/2020 20:00	0.02
3/3/2020 22:00	0.02
3/4/2020 0:00	0.02
3/4/2020 2:00	0.02
3/4/2020 4:00	0.02
3/4/2020 6:00	0.01
3/4/2020 8:00	0.02
3/4/2020 10:00	0.02
3/4/2020 12:00	0.02
3/4/2020 14:00	0.02
3/4/2020 16:00	0.02
3/4/2020 18:00	0.01
3/4/2020 20:00	0.01
3/4/2020 22:00	0.01
3/5/2020 0:00	0.01
3/5/2020 2:00	0.02
3/5/2020 4:00	0.01
3/5/2020 6:00	0.01
3/5/2020 8:00	0.06
3/5/2020 10:00	0.03
3/5/2020 12:00	0.02
3/5/2020 14:00	0.01
3/5/2020 16:00	0.04
3/5/2020 18:00	0.02
3/5/2020 20:00	0.03
3/5/2020 22:00	0.03
3/6/2020 0:00	0.02
3/6/2020 2:00	0.03
3/6/2020 4:00	0.03
3/6/2020 6:00	0.02
3/6/2020 8:00	0.00
3/6/2020 10:00	0.00
3/6/2020 12:00	0.01
3/6/2020 14:00	0.01
3/6/2020 16:00	0.01
3/6/2020 18:00	0.02
3/6/2020 20:00	0.02
3/6/2020 22:00	0.02
3/7/2020 0:00	0.01
3/7/2020 2:00	0.01
3/7/2020 4:00	0.02
3/7/2020 6:00	0.02
3/7/2020 8:00	0.03
3/7/2020 10:00	0.04
3/7/2020 12:00	0.03
3/7/2020 14:00	0.02
3/7/2020 16:00	0.02
3/7/2020 18:00	0.01
3/7/2020 20:00	0.03
3/7/2020 22:00	0.03
3/8/2020 0:00	0.02
3/8/2020 3:00	0.01
3/8/2020 5:00	0.01
3/8/2020 7:00	0.01

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/8/2020 9:00	0.05
3/8/2020 11:00	0.01
3/8/2020 13:00	0.02
3/8/2020 15:00	0.02
3/8/2020 17:00	0.03
3/8/2020 19:00	0.02
3/8/2020 21:00	0.02
3/8/2020 23:00	0.02
3/9/2020 1:00	0.02
3/9/2020 3:00	0.03
3/9/2020 5:00	0.02
3/9/2020 7:00	0.03
3/9/2020 9:00	0.01
3/9/2020 12:00	0.01
3/9/2020 14:00	0.03
3/9/2020 16:00	0.01
3/9/2020 18:00	0.01
3/9/2020 20:00	0.02
3/9/2020 22:00	0.02
3/10/2020 0:00	0.01
3/10/2020 2:00	0.02
3/10/2020 4:00	0.01
3/10/2020 6:00	0.01
3/10/2020 8:00	-0.01
3/10/2020 10:00	0.01
3/10/2020 12:00	0.01
3/10/2020 14:00	0.01
3/10/2020 16:00	0.02
3/10/2020 18:00	0.03
3/10/2020 20:00	0.02
3/10/2020 22:00	0.02
3/11/2020 0:00	0.02
3/11/2020 2:00	0.02
3/11/2020 4:00	0.01
3/11/2020 6:00	0.01
3/11/2020 8:00	0.01
3/11/2020 10:00	0.01
3/11/2020 12:00	0.01
3/11/2020 14:00	0.01
3/11/2020 16:00	0.01
3/11/2020 18:00	0.01
3/11/2020 20:00	0.01
3/11/2020 22:00	0.01
3/12/2020 0:00	0.01
3/12/2020 2:00	0.01
3/12/2020 4:00	0.02
3/12/2020 6:00	0.02
3/12/2020 8:00	0.01
3/12/2020 10:00	0.01
3/12/2020 12:00	0.04
3/12/2020 14:00	0.03
3/12/2020 16:00	0.00
3/12/2020 18:00	0.03
3/12/2020 20:00	0.03

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/12/2020 22:00	0.03
3/13/2020 0:00	0.07
3/13/2020 2:00	0.01
3/13/2020 4:00	0.03
3/13/2020 6:00	0.03
3/13/2020 8:00	0.03
3/13/2020 10:00	0.04
3/13/2020 12:00	0.03
3/13/2020 14:00	0.02
3/13/2020 16:00	0.02
3/13/2020 18:00	0.03
3/13/2020 20:00	0.02
3/13/2020 22:00	0.02
3/14/2020 0:00	0.02
3/14/2020 2:00	0.01
3/14/2020 4:00	0.02
3/14/2020 6:00	0.02
3/14/2020 8:00	0.02
3/14/2020 10:00	0.02
3/14/2020 12:00	0.01
3/14/2020 14:00	0.02
3/14/2020 16:00	0.02
3/14/2020 18:00	0.02
3/14/2020 20:00	0.01
3/14/2020 22:00	0.01
3/15/2020 0:00	0.02
3/15/2020 2:00	0.01
3/15/2020 4:00	0.01
3/15/2020 6:00	0.02
3/15/2020 8:00	0.02
3/15/2020 10:00	0.02
3/15/2020 12:00	0.03
3/15/2020 14:00	0.02
3/15/2020 16:00	0.02
3/15/2020 18:00	0.03
3/15/2020 20:00	0.02
3/15/2020 22:00	0.01
3/16/2020 0:00	0.01
3/16/2020 2:00	0.01
3/16/2020 4:00	0.01
3/16/2020 6:00	0.01
3/16/2020 8:00	0.01
3/16/2020 10:00	0.01
3/16/2020 12:00	0.02
3/16/2020 14:00	0.00
3/16/2020 16:00	0.01
3/16/2020 18:00	0.02
3/16/2020 20:00	0.01
3/16/2020 22:00	0.02
3/17/2020 0:00	0.02
3/17/2020 2:00	0.02
3/17/2020 4:00	0.03
3/17/2020 6:00	0.02
3/17/2020 8:00	0.00

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/17/2020 10:00	0.01
3/17/2020 12:00	0.03
3/17/2020 14:00	0.01
3/17/2020 16:00	0.01
3/17/2020 18:00	0.01
3/17/2020 20:00	0.02
3/17/2020 22:00	0.01
3/18/2020 0:00	0.02
3/18/2020 2:00	0.01
3/18/2020 4:00	0.02
3/18/2020 6:00	0.02
3/18/2020 8:00	0.01
3/18/2020 10:00	0.02
3/18/2020 12:00	0.02
3/18/2020 14:00	0.03
3/18/2020 16:00	0.02
3/18/2020 18:00	0.02
3/18/2020 20:00	0.02
3/18/2020 22:00	0.01
3/19/2020 0:00	0.02
3/19/2020 2:00	0.01
3/19/2020 4:00	0.02
3/19/2020 6:00	0.02
3/19/2020 8:00	0.02
3/19/2020 10:00	0.03
3/19/2020 12:00	0.03
3/19/2020 14:00	0.03
3/19/2020 16:00	0.02
3/19/2020 18:00	0.03
3/19/2020 20:00	0.01
3/19/2020 22:00	0.01
3/20/2020 0:00	0.01
3/20/2020 2:00	0.02
3/20/2020 4:00	0.02
3/20/2020 6:00	0.02
3/20/2020 8:00	0.04
3/20/2020 10:00	0.02
3/20/2020 12:00	0.03
3/20/2020 14:00	0.02
3/20/2020 16:00	0.01
3/20/2020 18:00	0.00
3/20/2020 20:00	0.01
3/20/2020 22:00	0.03
3/21/2020 0:00	0.01
3/21/2020 2:00	0.01
3/21/2020 4:00	0.02
3/21/2020 6:00	0.01
3/21/2020 8:00	0.01
3/21/2020 10:00	0.01
3/21/2020 12:00	0.02
3/21/2020 14:00	0.02
3/21/2020 16:00	0.02
3/21/2020 18:00	0.03
3/21/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/21/2020 22:00	0.01
3/22/2020 0:00	0.01
3/22/2020 2:00	0.01
3/22/2020 4:00	0.01
3/22/2020 6:00	0.01
3/22/2020 8:00	0.01
3/22/2020 10:00	0.05
3/22/2020 12:00	0.02
3/22/2020 14:00	0.04
3/22/2020 16:00	0.02
3/22/2020 18:00	0.01
3/22/2020 20:00	0.02
3/22/2020 22:00	0.01
3/23/2020 0:00	0.01
3/23/2020 2:00	0.01
3/23/2020 4:00	0.01
3/23/2020 6:00	0.02
3/23/2020 8:00	0.02
3/23/2020 10:00	0.01
3/23/2020 12:00	0.01
3/23/2020 14:00	0.01
3/23/2020 16:00	0.01
3/23/2020 18:00	0.03
3/23/2020 20:00	0.02
3/23/2020 22:00	0.01
3/24/2020 0:00	0.01
3/24/2020 2:00	0.02
3/24/2020 4:00	0.02
3/24/2020 6:00	0.01
3/24/2020 8:00	0.01
3/24/2020 10:00	0.03
3/24/2020 12:00	0.02
3/24/2020 14:00	0.01
3/24/2020 16:00	0.02
3/24/2020 18:00	0.03
3/24/2020 20:00	0.01
3/24/2020 22:00	0.01
3/25/2020 0:00	0.01
3/25/2020 2:00	0.01
3/25/2020 4:00	0.01
3/25/2020 6:00	0.01
3/25/2020 8:00	0.01
3/25/2020 10:00	0.00
3/25/2020 12:00	0.02
3/25/2020 14:00	0.05
3/25/2020 16:00	0.03
3/25/2020 18:00	0.01
3/25/2020 20:00	0.01
3/25/2020 22:00	0.01
3/26/2020 0:00	0.02
3/26/2020 2:00	0.02
3/26/2020 4:00	0.02
3/26/2020 6:00	0.01
3/26/2020 8:00	0.03

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/26/2020 10:00	0.01
3/26/2020 12:00	0.01
3/26/2020 14:00	0.02
3/26/2020 16:00	0.03
3/26/2020 18:00	0.04
3/26/2020 20:00	0.02
3/26/2020 22:00	0.01
3/27/2020 0:00	0.02
3/27/2020 2:00	0.01
3/27/2020 4:00	0.02
3/27/2020 6:00	0.02
3/27/2020 8:00	0.01
3/27/2020 10:00	0.05
3/27/2020 12:00	0.02
3/27/2020 14:00	0.03
3/27/2020 16:00	0.02
3/27/2020 18:00	0.04
3/27/2020 20:00	0.03
3/27/2020 22:00	0.03
3/28/2020 0:00	0.03
3/28/2020 2:00	0.02
3/28/2020 4:00	0.03
3/28/2020 6:00	0.03
3/28/2020 8:00	0.02
3/28/2020 10:00	0.04
3/28/2020 12:00	0.04
3/28/2020 14:00	0.03
3/28/2020 16:00	0.03
3/28/2020 18:00	0.02
3/28/2020 20:00	0.03
3/28/2020 22:00	0.02
3/29/2020 0:00	0.02
3/29/2020 2:00	0.02
3/29/2020 4:00	0.02
3/29/2020 6:00	0.04
3/29/2020 8:00	0.02
3/29/2020 10:00	0.07
3/29/2020 12:00	0.02
3/29/2020 14:00	0.05
3/29/2020 16:00	0.02
3/29/2020 18:00	0.03
3/29/2020 20:00	0.05
3/29/2020 22:00	0.03
3/30/2020 0:00	0.04
3/30/2020 2:00	0.03
3/30/2020 4:00	0.03
3/30/2020 6:00	0.00
3/30/2020 8:00	0.02
3/30/2020 10:00	0.02
3/30/2020 12:00	0.02
3/30/2020 14:00	0.01
3/30/2020 16:00	0.01
3/30/2020 18:00	0.02
3/30/2020 20:00	0.02

Table 3. Remote Pressure Sensor Building Interior Pressure Readings
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Date and Time Stamp	Building Pressure (inches of water
3/30/2020 22:00	0.02
3/31/2020 0:00	0.03
3/31/2020 2:00	0.02
3/31/2020 4:00	0.02
3/31/2020 6:00	0.02
3/31/2020 8:00	0.02
3/31/2020 10:00	0.02
3/31/2020 12:00	0.02
3/31/2020 14:00	0.04
3/31/2020 16:00	0.02
3/31/2020 18:00	0.02
3/31/2020 20:00	0.02
3/31/2020 22:00	0.02
Monthly Average	**0.02**

Table 4. Groundwater Elevations
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Well ID	Date	Ground Surface Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Depth to Bottom (feet btoc)	Screen length (Feet)	Groundwater Elevation (feet amsl)
MW-1	7/27/2015	835.85	835.58	25.31	33.25	10	810.27
	9/4/2015			25.42			810.16
	10/27/2015			25.56			810.02
	1/27/2016			24.95			810.63
	4/27/2016			24.36			811.22
	7/27/2016			24.04			811.54
	10/28/2016			24.15			811.43
	1/18/2017			24.22			811.36
	4/19/2017			24.69			810.89
	3/29/2018			23.55			812.03
	3/19/2020			22.34			813.24
MW-2	7/27/2015	837.11	836.69	25.20	33.50	10	811.49
	9/4/2015			25.60			811.09
	10/27/2015			25.73			810.96
	1/27/2016			25.12			811.57
	4/27/2016			24.52			812.17
	7/27/2016			24.15			812.54
	10/28/2016			24.22			812.47
	1/18/2017			24.38			812.31
	4/19/2017			24.60			812.09
	3/29/2018			23.63			813.06
	3/19/2020			22.53			814.16
MW-3	7/27/2015	837.62	837.09	26.10	32.90	10	810.99
	9/4/2015			26.29			810.80
	10/27/2015			26.41			810.68
	1/27/2016			25.84			811.25
	4/27/2016			25.16			811.93
	7/27/2016			24.79			812.30
	10/28/2016			24.90			812.19
	1/18/2017			25.06			812.03
	4/19/2017			24.45			812.64
	3/29/2018			24.15			812.94
	3/19/2020			22.99			814.10
MW-4	7/27/2015	836.32	835.95	24.00	34.40	10	811.95
	9/4/2015			24.13			811.82
	10/27/2015			24.28			811.67
	1/27/2016			24.70			811.25
	4/27/2016			23.04			812.91
	7/27/2016			22.63			813.32
	10/28/2016			22.68			813.27
	1/18/2017			22.92			813.03
	4/19/2017			22.38			813.57
	3/29/2018			22.05			813.90
	3/19/2020			20.81			815.14
MW-5	7/27/2015	836.41	836.11	23.80	33.20	10	812.31
	9/4/2015			23.89			812.22
	10/27/2015			23.99			812.12
	1/27/2016			23.41			812.70
	4/27/2016			22.85			813.26
	7/27/2016			22.50			813.61
	10/28/2016			22.48			813.63
	1/18/2017			22.75			813.36
	4/19/2017			23.10			813.01
	3/29/2018			22.10			814.01
	3/19/2020			20.88			815.23
MW-6	10/27/2015	837.26	836.88	25.79	32.71	10	811.09
	1/27/2016			25.25			811.63
	4/27/2016			24.46			812.42
	7/27/2016			24.00			812.88
	10/28/2016			24.12			812.76
	1/18/2017			24.33			812.55
	4/19/2017			24.72			812.16
	3/29/2018			23.33			813.55
	3/19/2020			22.16			814.72

Table 4. Groundwater Elevations
Schaefer Brush, 1101 South Prairie Avenue, Waukesha, Wisconsin

Well ID	Date	Ground Surface Elevation (feet amsl)	Top of Casing Elevation (feet amsl)	Depth to Water (feet btoc)	Depth to Bottom (feet btoc)	Screen length (Feet)	Groundwater Elevation (feet amsl)
MW-7	10/27/2015	836.62	836.29	27.83	32.72	10	808.46
	1/27/2016			27.19			809.10
	4/27/2016			26.41			809.88
	7/27/2016			25.99			810.30
	10/28/2016			26.18			810.11
	1/18/2017			26.30			809.99
	4/19/2017			25.80			810.49
	3/29/2018			25.23			811.06
	3/19/2020			24.91			811.38

Notes:
amsl - above mean sea level
btoc - below top of casing

Table 5. 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	3/19/20
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	<0.37
cis-1,2,-Dichloroethene	7	70	<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	<0.41
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	<0.35
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***	***6.6***
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	<0.15
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	<0.38
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	<0.35
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*	0.35 J
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	NA
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	NA
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	NA
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	NA
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*	NA
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***	NA
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	NA
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	NA
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***	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	NA
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	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	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	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	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	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	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	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	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 5. 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	3/19/20	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	3/19/20
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	<0.37	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.37
cis-1,2,-Dichloroethene	7	70	<1.0	<1.0	<1.0	<1.0	0.29J	1.3J	<1.0	<1.0	<1.0	<1.0	<0.26	0.47 J	<0.26	<0.26	<0.26	0.47J	<0.26	0.29J	<0.26	0.54J	<0.26	<0.41
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	<0.35	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.35
Tetrachloroethene	0.5	5	***269***	***191***	***189***	***173***	***145***	***662***	***745***	***749***	***579***	***385***	***407***	***640***	***19.8***	***32.9***	***24.4***	***96.9***	***47.1***	***60.9***	***23.3***	***95***	***28.4***	***14***
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	<0.15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.15
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	<0.38	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.38
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	<0.35	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.35
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	0.23 J	*0.77J*	*0.86J*	*0.90J*	*0.69J*	0.39J	0.42J	0.37J	0.48J	0.44J	0.36 J
PAHs (µg/l)																								
Acenaphthene	---	---	<0.0045	<0.0046	<0.0046	<0.0052	NA	<0.0067	NA	<0.0063	<0.0055	<0.0057	NA	NA	<0.0045	<0.0046	<0.0047	<0.0048	NA	<0.0064	<0.0065	<0.0055	<0.0057	NA
Acenaphthylene	---	---	<0.0045	<0.0045	<0.0046	<0.0052	NA	<0.0055	NA	<0.0052	0.0065J	<0.0047	NA	NA	<0.0045	<0.0046	<0.0047	<0.0048	NA	<0.0052	<0.0053	<0.0045	<0.0047	NA
Anthracene	600	3,000	<0.0036	<0.0037	<0.0038	<0.0043	NA	0.018J	NA	0.28	0.019J	<0.0099	NA	NA	<0.0036	<0.0038	<0.0038	0.0048J	NA	<0.011	<0.011	<0.0094	<0.0099	NA
Benzo(a)anthracene	---	---	0.022J	0.021J	<0.0048	0.021J	NA	0.085	NA	0.12	0.14	0.073	NA	NA	0.013J	<0.0048	0.013J	<0.0050	NA	<0.0079	<0.0080	0.019J	0.020J	NA
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	NA	0.011J	<0.0041	0.0076J	0.0079J	NA	0.015J	<0.011	*0.028J*	0.011J	NA
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	NA	*0.022J*	0.0065J	0.012J	0.010J	NA	*0.039*	*0.022J*	*0.053*	*0.031*	NA
Benzo(g,h,i)perylene	---	---	0.024J	0.026J	0.0054J	0.039J	NA	0.14	NA	0.38	0.30	0.15	NA	NA	0.016J	<0.0033	0.0078J	0.0078J	NA	0.019J	0.011J	0.029J	0.016J	NA
Benzo(k)fluoranthene	---	---	0.019J	0.017J	<0.0053	0.020J	NA	0.12	NA	0.33	0.22	0.14	NA	NA	0.0077J	<0.0053	<0.0053	<0.0055	NA	0.027J	0.015J	0.020J	0.019J	NA
Chrysene	0.02	0.2	*0.063*	*0.047*	0.0050J	*0.049J*	NA	***0.23***	NA	***0.68***	***0.39***	***0.27***	NA	NA	0.018J	0.0080J	0.011J	0.0083J	NA	*0.047J*	*0.021J*	*0.043J*	*0.045J*	NA
Dibenzo(a,h)anthracene	---	---	<0.0050	<0.0051	<0.0052	0.0065J	NA	0.019J	NA	0.051J	0.050	0.017J	NA	NA	<0.0050	<0.0052	<0.0052	<0.0054	NA	<0.011	<0.011	<0.0090	<0.0095	NA
Fluoranthene	80	400	0.07	0.078	0.0098J	0.10	NA	0.31	NA	1.1	0.73	0.48	NA	NA	0.048	0.013J	0.021J	0.018J	NA	0.062	0.031J	0.091	0.066	NA
Fluorene	80	400	<0.0036	<0.0037	0.0049J	<0.0043	NA	<0.0089	NA	<0.0083	0.0075J	<0.0075	NA	NA	<0.0036	<0.0038	<0.0038	<0.0039	NA	<0.0084	<0.0085	<0.0072	<0.0075	NA
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	NA	0.012J	<0.0033	0.0055J	0.0057J	NA	<0.019	<0.019	0.023J	<0.017	NA
1-Methylnaphthalene	---	---	0.0040J	<0.0028	0.0038J	<0.0033	NA	<0.0066	NA	<0.0061	<0.0054	<0.0056	NA	NA	0.0047J	<0.0029	<0.0029	0.0089J	NA	<0.0062	<0.0063	<0.0053	<0.0056	NA
2-Methylnaphthalene	---	---	0.0050J	<0.0025	0.0058J	0.0068J	NA	<0.0054	NA	<0.0051	<0.0045	<0.0046	NA	NA	0.010J	<0.0026	0.0040J	0.011J	NA	<0.0052	<0.0052	<0.0044	<0.0046	NA
Naphthalene	10	100	0.0052J	0.0050J	0.012J	<0.0048	NA	<0.020	NA	<0.019	<0.017	<0.017	NA	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	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	NA	0.044J	0.014J	0.017J	0.022J	NA	0.045	0.027J	0.067	0.059	NA
Dissolved RCRA Metals (µg/l)																								
Arsenic	1	10	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA	NA	NA	NA	<7.2	<7.2	<7.2	<7.2	NA	NA	NA	NA	NA	NA
Barium	400	2,000	71.4	77.9	75.2	76.3	NA	NA	NA	NA	NA	NA	NA	NA	67.2	69.6	69.6	58.7	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	NA	NA	NA	<0.60	<0.60	<0.60	<0.60	NA	NA	NA	NA	NA	NA
Chromium	10	100	3.5J	2.9J	3.3J	<2.1	NA	NA	NA	NA	NA	NA	NA	NA	<2.1	<2.1	<2.1	<2.1	NA	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA	NA	NA	<3.0	<3.0	<3.0	<3.0	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	<0.10	0.11J	<0.10	<0.18	NA	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA	NA	NA	NA	<6.7	<6.7	<6.7	<6.7	NA	NA	NA	NA	NA	NA
Silver	10	50	<2.7	<2.7	<2.7	<2.7	NA	NA	NA	NA	NA	NA	NA	NA	<2.7	2.9J	<2.7	<2.7	NA	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 5. 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	70	<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

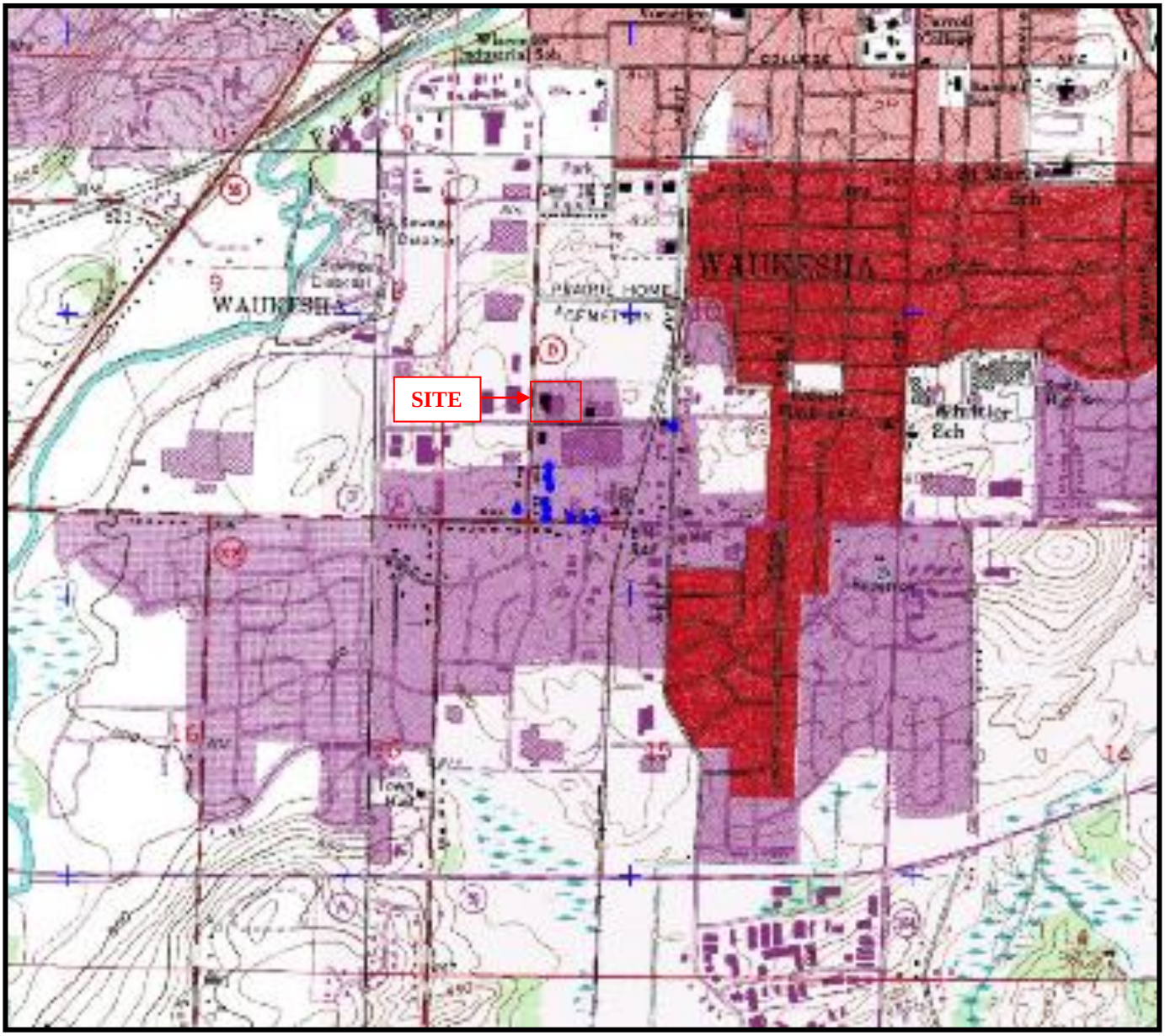
Notes:
Bold concentrations exceed NR 140 Wis. Admin. Code enforcement standard.
Italicized concentrations exceed NR 140 Wis. Admin. Code preventive action limit.
--- - no standard established
J - Results between the limit of detection and limit of quantitation
µg/l - micrograms per liter
NA - not analyzed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

Table 5. 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	3/19/20
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	<0.37
cis-1,2,-Dichloroethene	7	70	*34.9*	*28.6*	***98.3***	*13.9*	<1.0	5.5	4.9	4.2	*7.0*	*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	<0.35
Tetrachloroethene	0.5	5	***412***	***430***	***600***	***360***	***455***	***205***	***222***	***146***	***217***	***310***
Toluene	160	800	<5.0	<2.5	<2.5	<2.5	<2.0	<0.50	<0.50	<0.50	<0.50	<0.15
1,1,1-Trichloroethane	40	200	<5.0	<2.5	<2.5	<2.5	<2.0	<0.50	<0.50	<0.50	<0.50	<0.38
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	<0.35
Trichloroethene	0.5	5	***7.8J***	***7.2***	***12.8***	***7.7***	<1.3	*1.5*	*1.6*	*1.2*	*2.8*	*2.6*
PAHs (µg/l)												
Acenaphthene	---	---	<0.0045	NA	<0.0045	<0.0046	NA	<0.0067	<0.0059	<0.0057	<0.0055	NA
Acenaphthylene	---	---	<0.0045	NA	<0.0045	<0.0046	NA	<0.0055	<0.0048	<0.0047	<0.0045	NA
Anthracene	600	3,000	<0.0036	NA	<0.0037	<0.0038	NA	<0.012	<0.010	<0.0099	<0.0095	NA
Benzo(a)anthracene	---	---	<0.0046	NA	<0.0047	<0.0048	NA	<0.0084	<0.0073	<0.0071	0.0087J	NA
Benzo(a)pyrene	0.02	0.2	<0.0040	NA	<0.0040	<0.0041	NA	<0.012	<0.010	<0.0099	<0.0096	NA
Benzo(b)fluoranthene	0.02	0.2	<0.0048	NA	<0.0048	<0.0050	NA	<0.0064	<0.0056	<0.0054	0.014J	NA
Benzo(g,h,i)perylene	---	---	<0.0032	NA	<0.0032	0.0048J	NA	<0.0075	<0.0066	<0.0064	0.0094J	NA
Benzo(k)fluoranthene	---	---	<0.0051	NA	<0.0051	<0.0053	NA	<0.0084	<0.0073	<0.0071	0.010J	NA
Chrysene	0.02	0.2	<0.0038	NA	<0.0039	<0.0040	NA	<0.014	<0.013	<0.012	0.017J	NA
Dibenzo(a,h)anthracene	---	---	<0.0050	NA	<0.0051	<0.0052	NA	<0.011	<0.0097	<0.0095	<0.0091	NA
Fluoranthene	80	400	<0.0085	NA	<0.0085	<0.0088	NA	<0.012	<0.010	<0.010	0.020J	NA
Fluorene	80	400	<0.0036	NA	<0.0037	<0.0038	NA	<0.0089	<0.0077	<0.0075	<0.0072	NA
Indeno(1,2,3-cd)pyrene	---	---	<0.0032	NA	<0.0033	<0.0033	NA	<0.020	<0.017	<0.017	<0.016	NA
1-Methylnaphthalene	---	---	<0.0028	NA	0.0052J	<0.0029	NA	<0.0066	<0.0057	<0.0056	<0.0054	NA
2-Methylnaphthalene	---	---	<0.0025	NA	0.0054J	0.0035J	NA	<0.0054	<0.0048	<0.0046	<0.0045	NA
Naphthalene	10	100	<0.0041	NA	0.014J	<0.0042	NA	<0.020	<0.018	<0.017	<0.017	NA
Phenanthrene	---	---	0.0075J	NA	0.0088J	<0.0072	NA	<0.015	<0.013	<0.013	<0.013	NA
Pyrene	50	250	0.0070J	NA	0.0073J	0.0084J	NA	<0.0085	<0.0074	<0.0072	0.021J	NA
Dissolved RCRA Metals (µg/l)												
Arsenic	1	10	<7.2	NA	<7.2	<7.2	NA	NA	NA	NA	NA	NA
Barium	400	2,000	50.2	NA	50.8	36.3	NA	NA	NA	NA	NA	NA
Cadmium	0.5	5	<0.60	NA	<0.60	<0.60	NA	NA	NA	NA	NA	NA
Chromium	10	100	<2.1	NA	<2.1	<2.1	NA	NA	NA	NA	NA	NA
Lead	1.5	15	<3.0	NA	<3.0	<3.0	NA	NA	NA	NA	NA	NA
Mercury	0.2	2	0.11J	NA	<0.10	<0.18	NA	NA	NA	NA	NA	NA
Selenium	10	50	<6.7	NA	<6.7	<6.7	NA	NA	NA	NA	NA	NA
Silver	10	50	<2.7	NA	<2.7	<2.7	NA	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

Figures



● LOCATION OF POSSIBLE WATER WELL

N

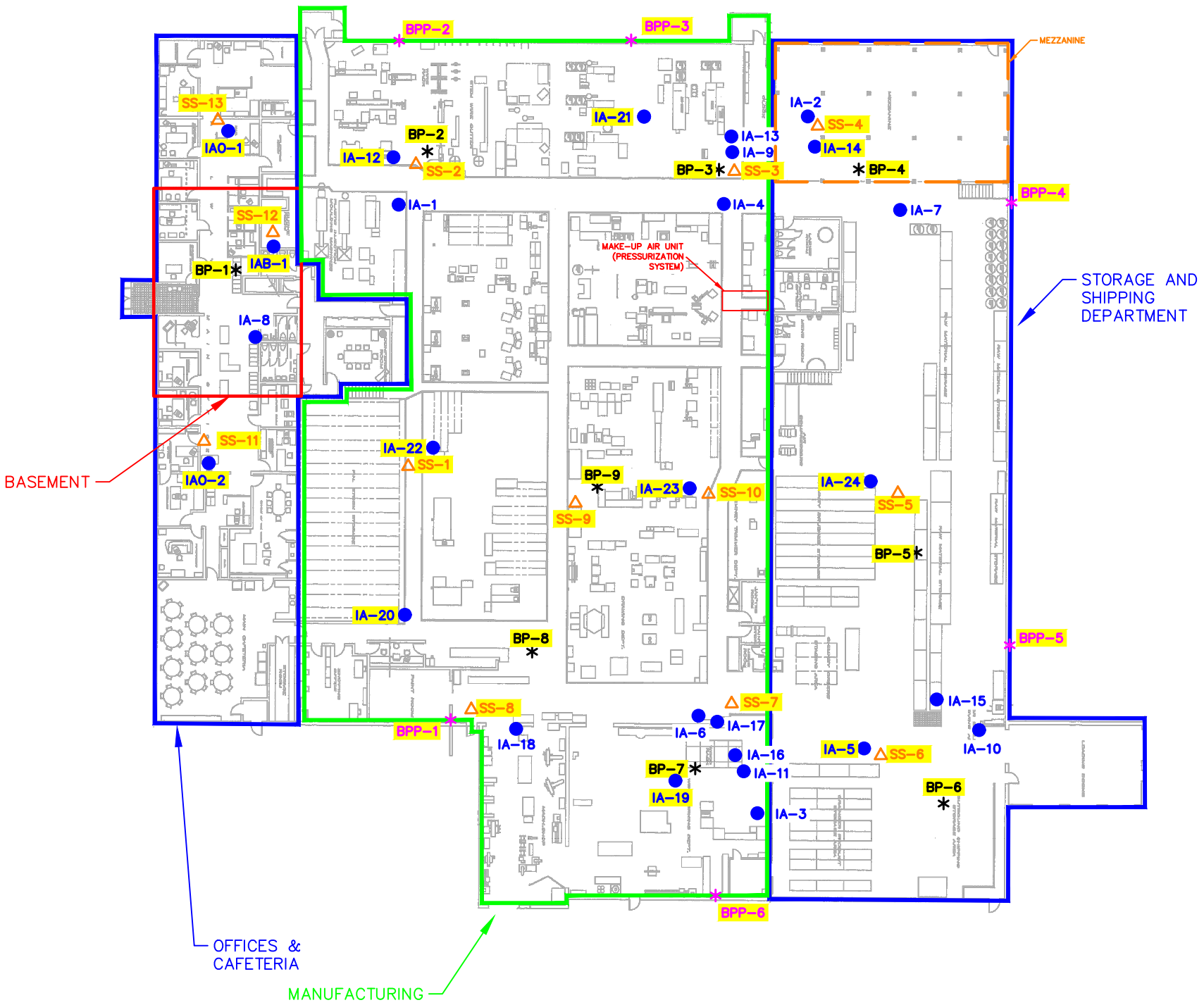
DESIGNED BY TLS	DATE December 23, 2015
DRAWN BY TLS	PROJECT 2503014.1
APPROVED BY TLS	SHEET NO. 1
SOURCE Muskego, Wisconsin Quadrangle Map 1994 Scale 1:24,000	

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

KEY ENGINEERING GROUP LTD.

LEGEND

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



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APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 2
INTERIOR FACILITY 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)

LEGEND

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

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

NOTES

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

SUB-SLAB VAPOR CONCENTRATIONS ARE BOLD AND RED IF ABOVE VAPOR RISK SCREENING LEVELS

SUB-SLAB VAPOR SAMPLE RESULTS WERE COMPARED TO SMALL COMMERCIAL VAPOR RISK SCREENING LEVELS FOR THE OFFICE AND BASEMENT

SUB-SLAB VAPOR SAMPLE RESULTS WERE COMPARED TO LARGE COMMERCIAL VAPOR RISK SCREENING LEVELS IN MANUFACTURING AND SHIPPING DEPARTMENTS

1,4-DICHLOROBENZENE AND NAPHTHALENE ARE NOT CONSTITUENTS OF CONCERN FOR THE SITE SINCE PRODUCTS CONTAINING THESE COMPOUNDS ARE USED IN THE FACILITY

SS-13	2/11/2020	3/16/2020
14DCB	4.4J	<0.96
NAPH	7.4	<2.1
PCE	0.88J	5.4
TCE	<0.49	<0.41

SS-12	2/11/2020	3/16/2020
14DCB	5.0J	<1.4
NAPH	7.9	<1.8
PCE	3,500	1,000
TCE	5.1	5.4

SS-2	10/31/2018	2/11/2020
14DCB	<1.8	3.5J
NAPH	5.5	6.1
PCE	200	52.7
TCE	2.5	<0.49

SS-3	2/11/2020
14DCB	<28.8
NAPH	<37.7
PCE	**156,000**
TCE	68.1

SS-4	10/31/2018	2/11/2020
14DCB	<1.8	<57.6
NAPH	3.7J	<75.5
PCE	**493,000**	**654,000**
TCE	**1,260**	**1,010**

BPP-2 BPP-3 BPP-4 BPP-5 BPP-6 BPP-1

SS-13 IAO-1 IA-12 SS-2 BP-2 IA-21 IA-13 IA-9 BP-3 SS-3 IA-2 SS-4 IA-14 BP-4 MEZZANINE

SS-12 IAB-1 BP-1 IA-1 IA-4 IA-7 MAKE-UP AIR UNIT (PRESSURIZATION SYSTEM)

IA-8 STORAGE AND SHIPPING DEPARTMENT

SS-11 IAO-2 IA-22 SS-1 BASEMENT

BP-9 IA-23 SS-10 SS-9 IA-24 SS-5 BP-5

IA-20 BP-8

SS-7 SS-8 IA-18 IA-6 IA-17 IA-16 IA-11 BP-7 IA-19 IA-3 IA-5 SS-6 IA-15 IA-10 BP-6

OFFICES & CAFETERIA

MANUFACTURING

SS-10	3/16/2020
14DCB	<52.5
NAPH	<68.8
PCE	**42,900**
TCE	64.8

SS-11	2/11/2020	3/16/2020
14DCB	6.5	<1.6
NAPH	7.2	<2.1
PCE	179	81.8
TCE	6.9	5.0

SS-9	3/16/2020
14DCB	<1.7
NAPH	<2.2
PCE	237
TCE	14.7

SS-8	10/31/2018	2/11/2020
14DCB	<1.8	<1.9
NAPH	6.2	6.5
PCE	8,850	46.8
TCE	16.1	1.4

SS-6	2/11/2020
14DCB	29.J
NAPH	5.9
PCE	1,690
TCE	0.80J

SS-1	3/16/2020
14DCB	<1.7
NAPH	<2.2
PCE	931
TCE	48.9

SS-7	10/31/2018	2/11/2020
14DCB	<1.8	4.6J
NAPH	17.6	8.0
PCE	13,700	**36,800**
TCE	33.8	34.6

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 3
POST REMEDIAL SUB-SLAB ANALYTICAL RESULTS
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

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

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

NOTES

CONCENTRATIONS ARE REPORTED IN MICROGRAMS PER CUBIC METER

INDOOR AIR CONCENTRATIONS ARE ITALICIZED AND RED IF ABOVE VAPOR RISK SCREENING LEVELS

INDOOR AIR SAMPLE RESULTS WERE COMPARED TO SMALL COMMERCIAL VAPOR ACTION LEVELS FOR THE OFFICE AND BASEMENT

INDOOR AIR SAMPLE RESULTS WERE COMPARED TO LARGE COMMERCIAL VAPOR ACTION LEVELS IN MANUFACTURING AND SHIPPING DEPARTMENTS

1,4-DICHLOROBENZENE AND NAPHTHALENE ARE NOT CONSTITUENTS OF CONCERN FOR THE SITE SINCE PRODUCTS CONTAINING THESE COMPOUNDS ARE USED IN THE FACILITY

IA-12	4/6/2018	10/31/2018	2/11/2020	3/16/2020
14DCB	211	13.7	18.5	7.3
NAPH	5.7	<2.0	<2.2	3.0J
PCE	30.0	0.54J	<0.44	8.6
TCE	4.1	1.5	1.6	1.7

IA-13	4/6/2018
14DCB	226
NAPH	4.7
PCE	32.2
TCE	4.8

IA-21	2/11/2020	3/16/2020
14DCB	17.6	6.9
NAPH	<2.0	2.7J
PCE	4.3	9.4
TCE	1.4	1.8

IA-9	10/31/2018
14DCB	14.8
NAPH	17.5
PCE	<0.47
TCE	1.6

IA-14	4/6/2018	10/31/2018	2/11/2020	3/16/2020
14DCB	163	38.3	18.4	10.8
NAPH	5.2	1.9J	<2.2	2.7J
PCE	118	1.7	16.8	21.9
TCE	3.7	1.5	1.5	1.7

IAO-1	2/11/2020	3/16/2020
14DCB	195	81.4
NAPH	<2.2	2.8J
PCE	3.3	7.2
TCE	0.86J	1.8

IA-23	3/19/2020
14DCB	5.0 J
NAPH	<2.5
PCE	5.0
TCE	1.6

IAB-1	2/11/2020	3/16/2020
14DCB	194	98.1
NAPH	<2.3	<2.4
PCE	9.2	17.3
TCE	1.3	2.0

IA-24	3/19/2020
14DCB	3.7 J
NAPH	<2.5
PCE	9.1
TCE	1.3

IA-22	3/19/2020
14DCB	5.0 J
NAPH	<2.4
PCE	5.9
TCE	1.6

IA-17	4/6/2018
14DCB	217
NAPH	4.9
PCE	39.5
TCE	4.5

IAO-2	2/11/2020	3/16/2020
14DCB	172	90.6
NAPH	<2.3	2.9J
PCE	2.4	5.8
TCE	0.52J	1.3

IA-15	4/6/2018
14DCB	143
NAPH	5.1
PCE	87.7
TCE	3.6

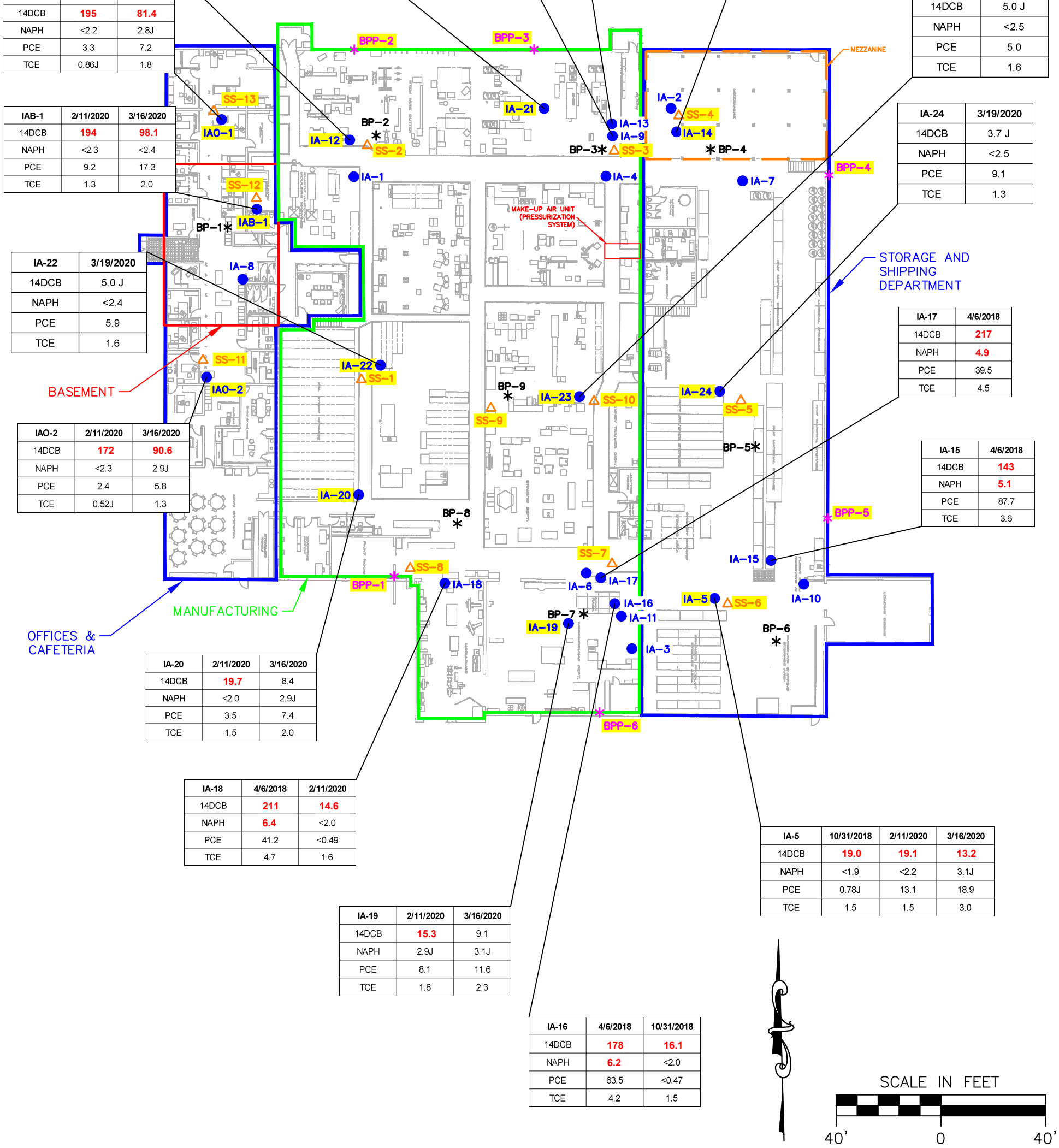
IA-20	2/11/2020	3/16/2020
14DCB	19.7	8.4
NAPH	<2.0	2.9J
PCE	3.5	7.4
TCE	1.5	2.0

IA-18	4/6/2018	2/11/2020
14DCB	211	14.6
NAPH	6.4	<2.0
PCE	41.2	<0.49
TCE	4.7	1.6

IA-19	2/11/2020	3/16/2020
14DCB	15.3	9.1
NAPH	2.9J	3.1J
PCE	8.1	11.6
TCE	1.8	2.3

IA-16	4/6/2018	10/31/2018
14DCB	178	16.1
NAPH	6.2	<2.0
PCE	63.5	<0.47
TCE	4.2	1.5

IA-5	10/31/2018	2/11/2020	3/16/2020
14DCB	19.0	19.1	13.2
NAPH	<1.9	<2.2	3.1J
PCE	0.78J	13.1	18.9
TCE	1.5	1.5	3.0



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
POST REMEDIAL INDOOR AIR ANALYTICAL RESULTS
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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Figure 5 Tetrachloroethene Indoor Air Concentrations Versus Indoor Air Presssure

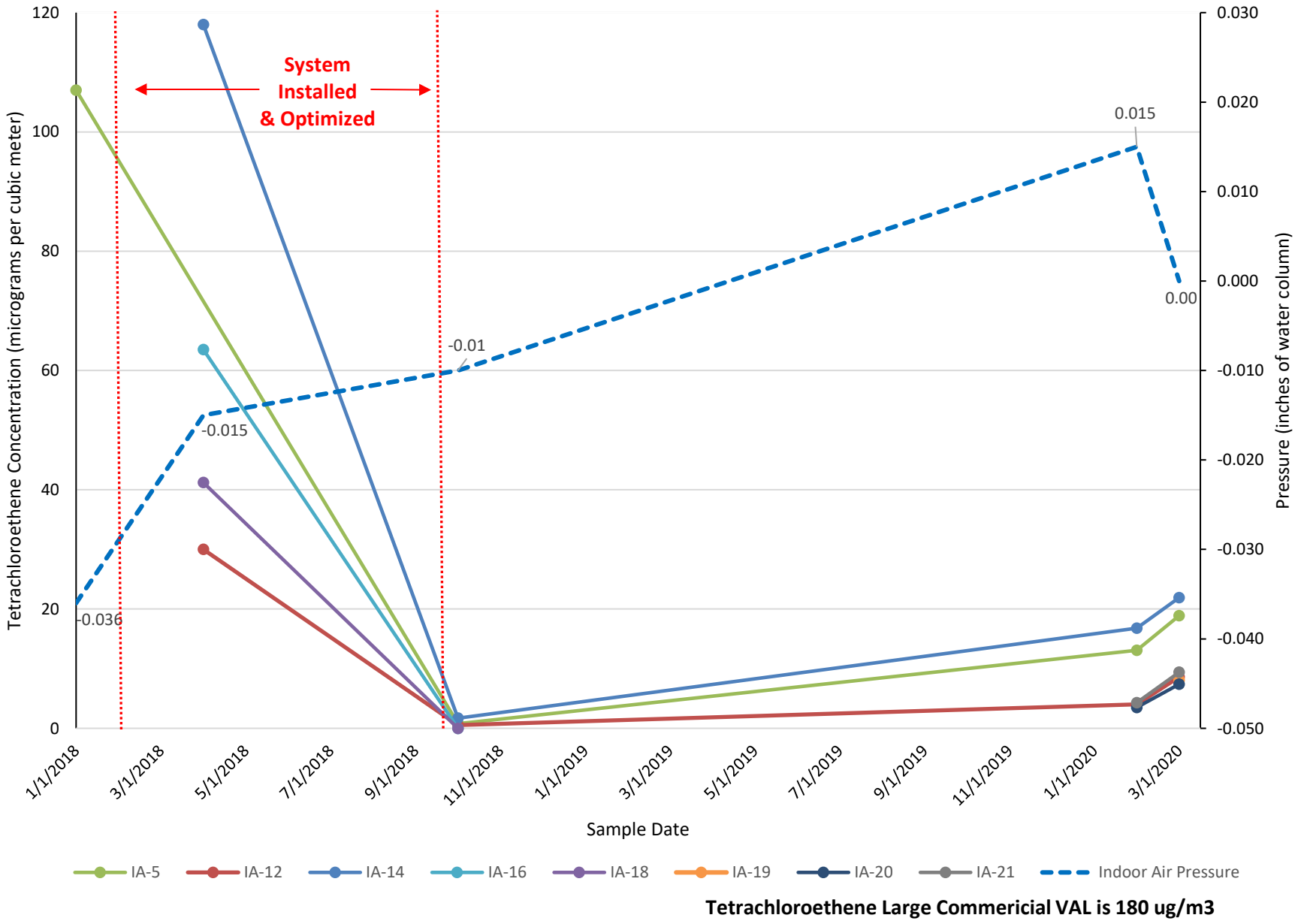


Figure 6 Trichloroethene Indoor Air Concentrations Versus Indoor Air Presssure

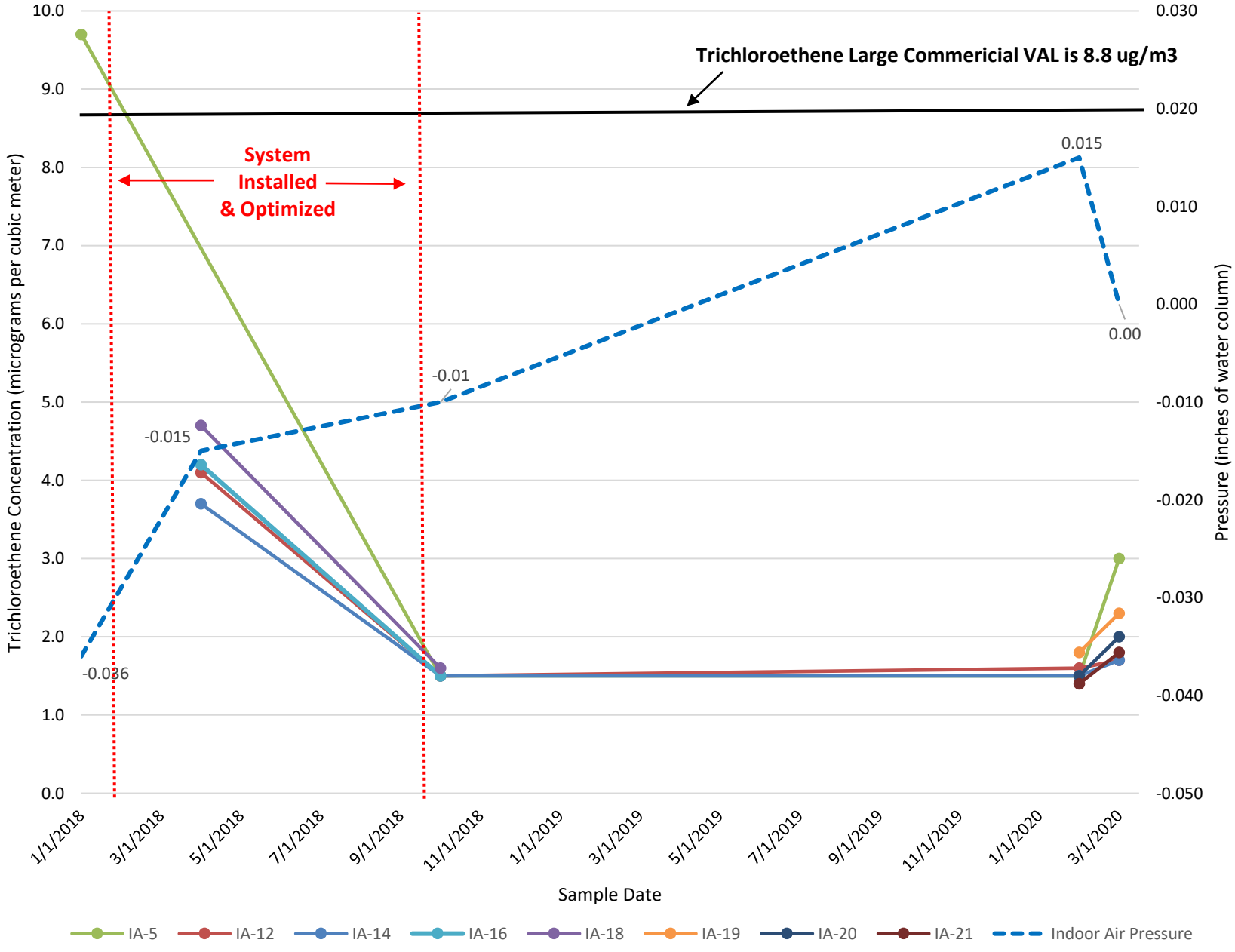
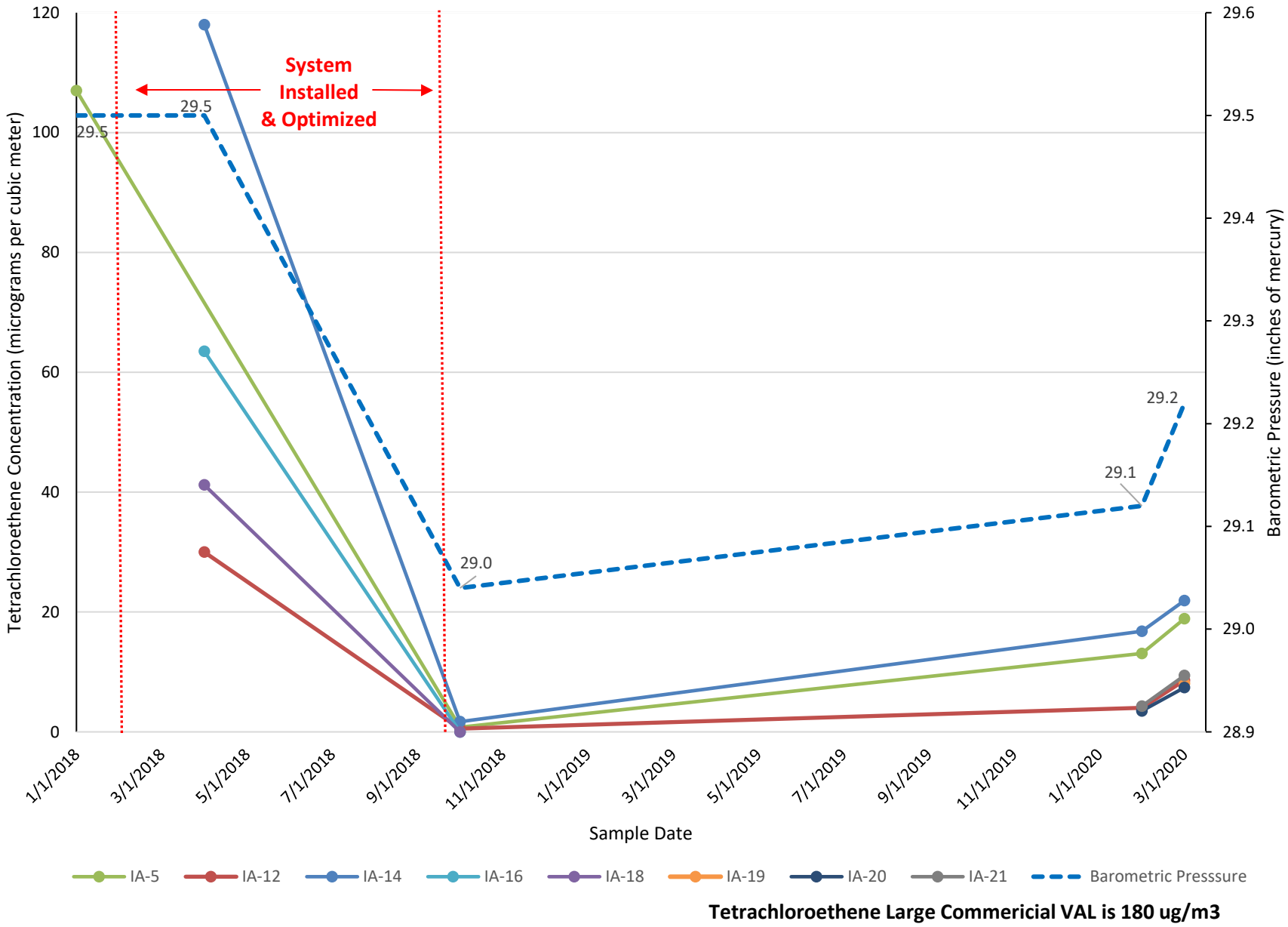


Figure 7 Tetrachloroethene Indoor Air Concentrations Versus Barometric Presssure



Tetrachloroethene Large Commericial VAL is 180 ug/m3

Figure 8 Trichloroethene Indoor Air Concentrations Versus Barometric Presssure

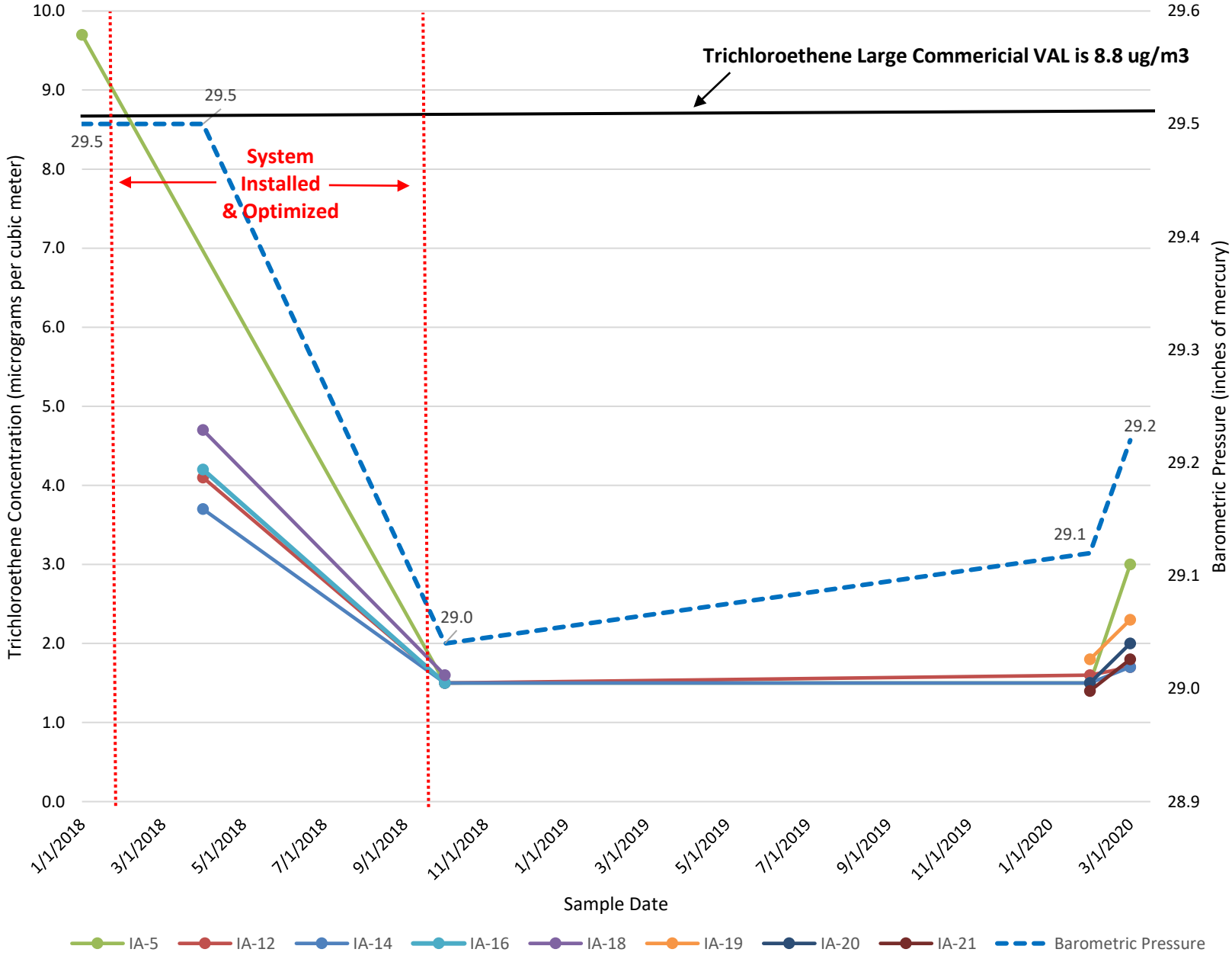


Figure 9 Barometric Pressure Versus Indoor Air Presssure

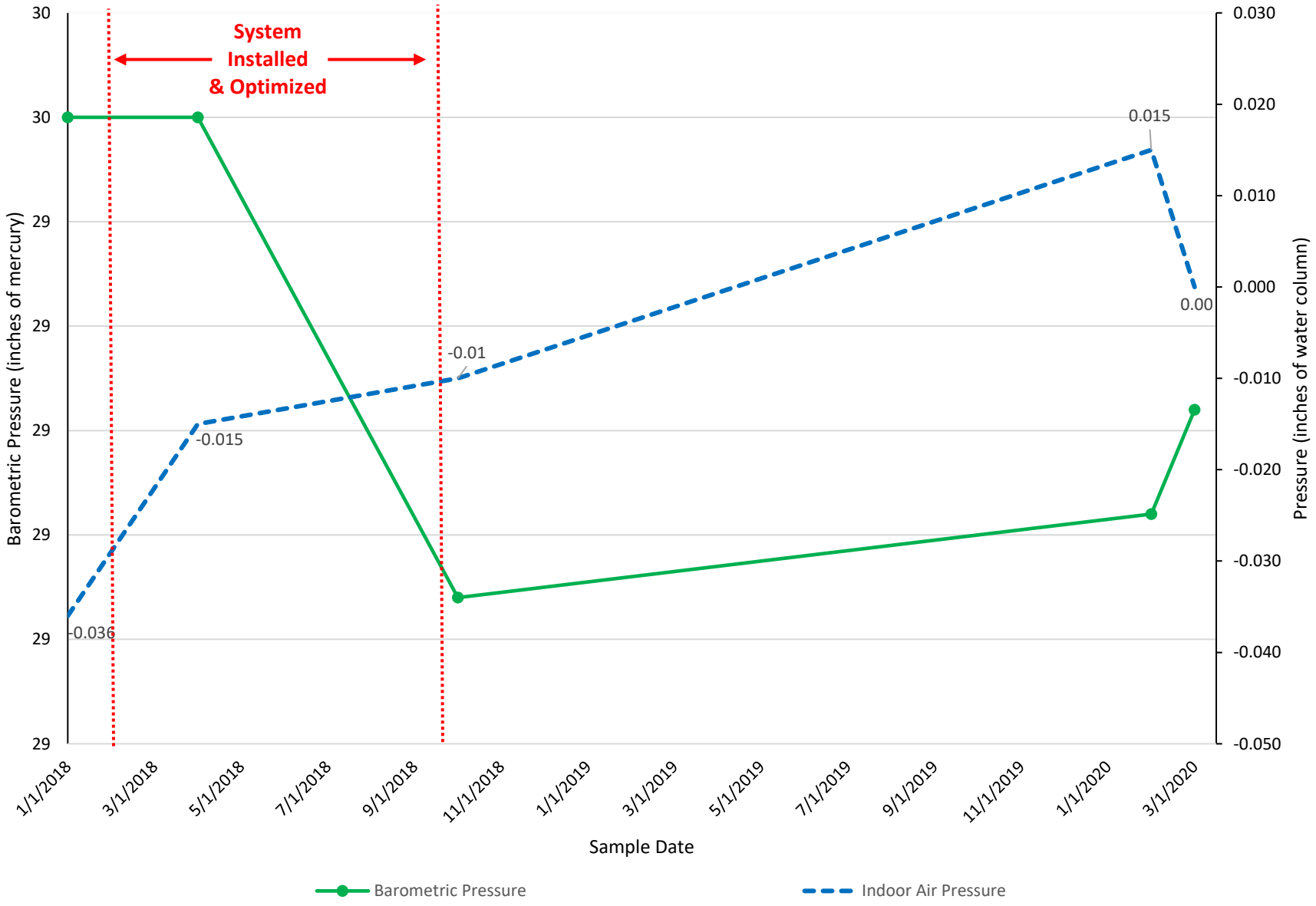
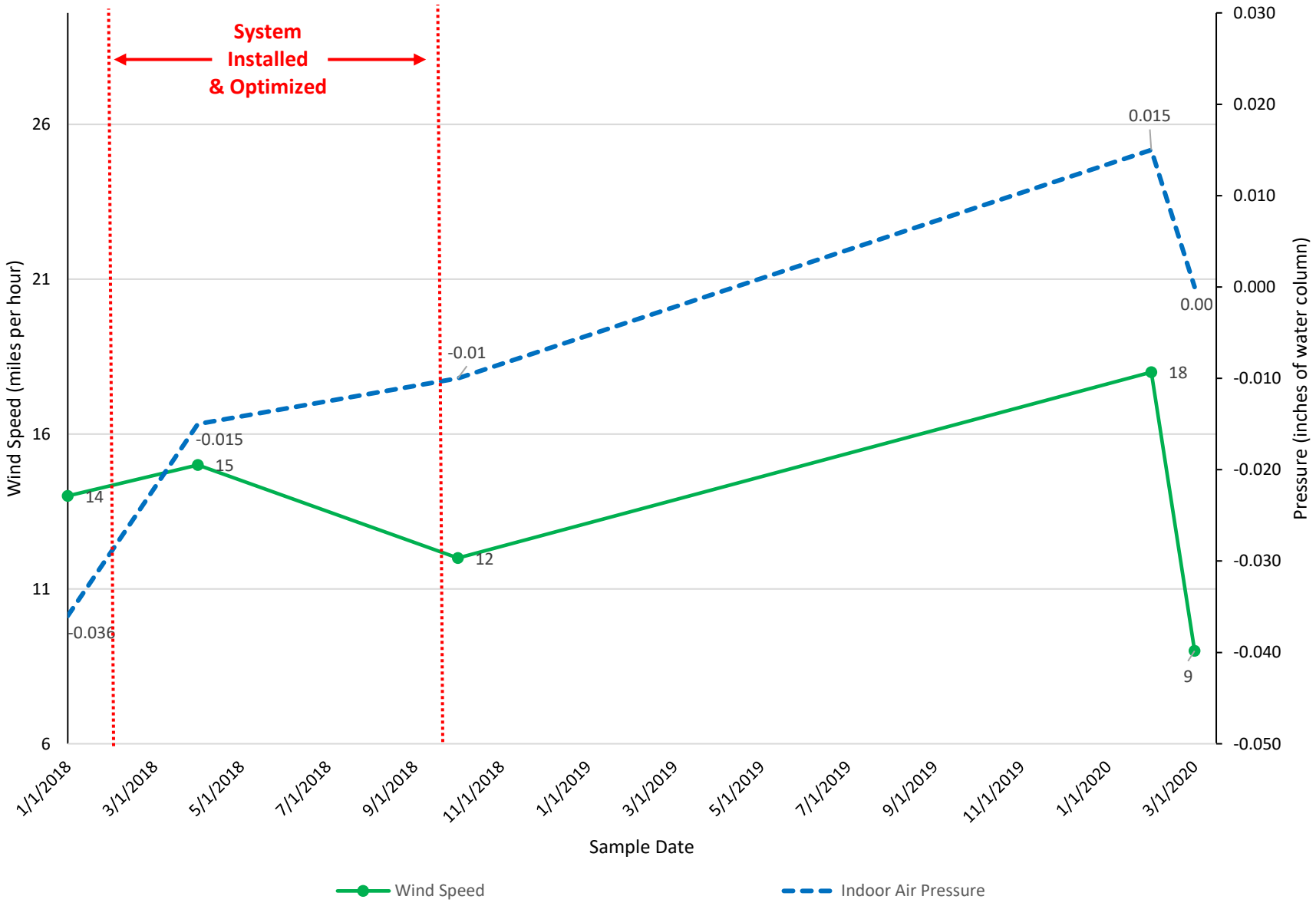
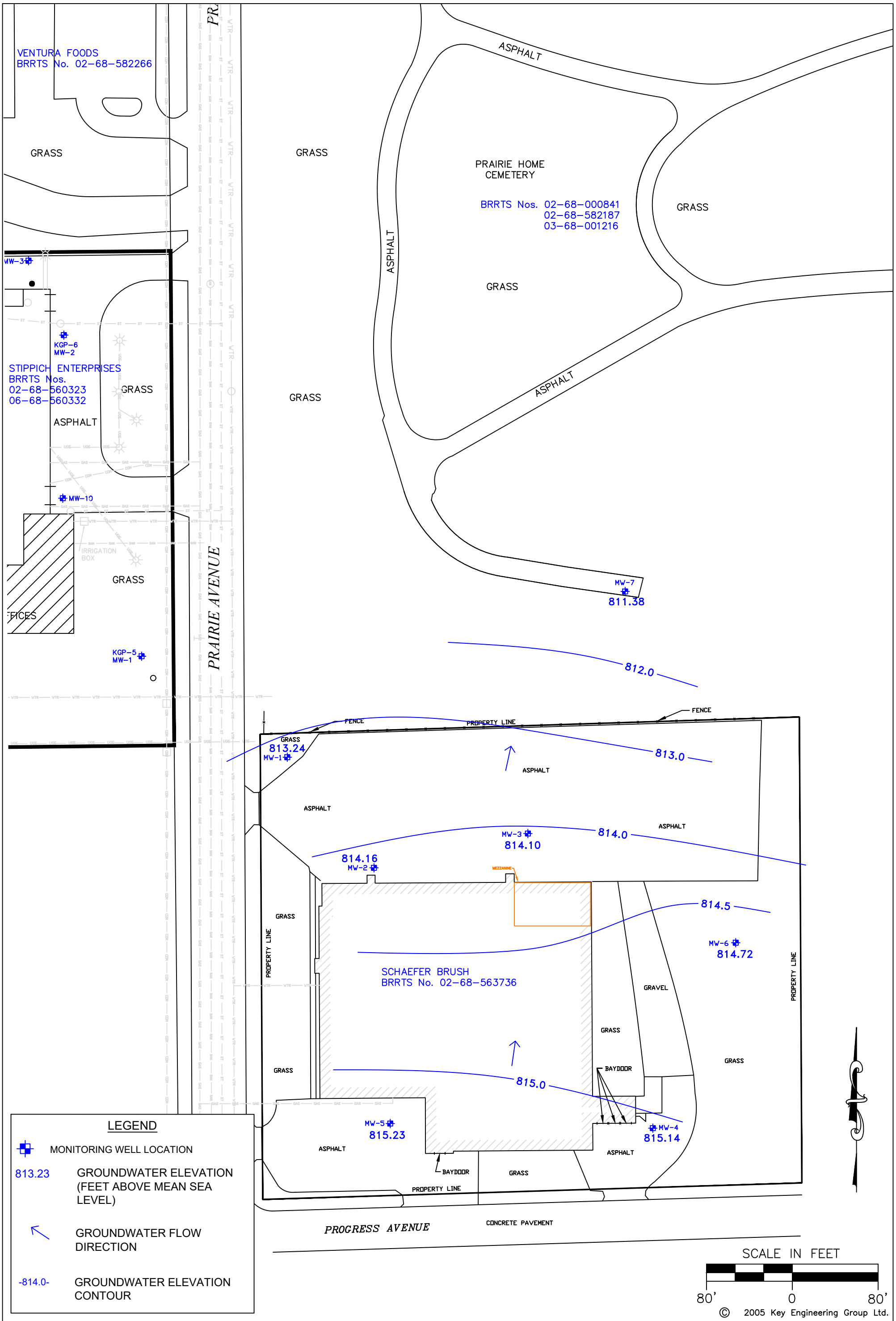


Figure 10 Wind Speed Versus Indoor Air Presssure





DESIGNED BY TLS/JMD	DATE 05/23/2019
DRAWN BY JMD	PROJECT 2503001.1
APPROVED BY TLS	SHEET NO. 1
CADFILE XREF LMAN	

FIGURE 11
GROUNDWATER FLOW MAP (MARCH 19, 2020)
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)

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Attachment 1

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

Site Investigation Sample Results Notification

Form 4400-249 (R 03/14)

Notice: This form may be used to comply with the requirements of s. NR 716.14 (2), Wis. Adm. Code; however, use of this form is not required. An alternate format may be used. The rule requires that notification be provided to 1) property owners when someone else is conducting the sampling, 2) to occupants of property belonging to the responsible person, and 3) to owners and occupants of property that does not belong to the responsible person but has been affected by contamination arising on his or her property. Notification is required within 10 business days of receiving the sample results. Personal information collected will be used for program administration and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.].

NOTE: Under s. NR 716.14, Wis. Adm. Code, the responsible party must also submit sample results and other required information to the DNR. We recommend that copies of the sample results notifications be included with that submittal, along with all attachments. Using the same format used for data presentation for a closure request may be helpful to all parties. See s. NR 716.14, Wis. Adm. Code for the full list of information to be submitted to the DNR.

Notification of Property Owners and Occupants:

This notification form has been provided to you in order to provide the results of environmental sampling that has been conducted on property that you own or occupy. Samples were collected in accordance with the methods identified in the site investigation work plan, in accordance with s. NR. 716.09 and 716.13, Wis. Adm. Code. This sampling was conducted as a result of contamination originating at the following location.

Site Information

Site Name			DNR ID # (BRRTS #)
Schaefer Brush			02-68-563736
Address	**City**	**State**	**ZIP Code**
1101 South Prairie Avenue	Waukesha	WI	53186

Responsible Party

The person(s) responsible for completing this environmental investigation is:

Property Owner			
1101 Gage Inc.			
Address	**City**	**State**	**ZIP Code**
1101 South Prairie Avenue	Waukesha	WI	53186

Contact Person	Phone Number (include area code)
Sheri Reichart	

Person or company that collected samples

Key Engineering Group, Ltd

Sample Results (Results Attached)

Reason for Sampling: ○ Routine ◉ Other (define) vapor mitigation system sampling, groundwater monitoring

The contaminants that have been identified at this time on property that you own or occupy include:

Contaminant	In Soil? Yes	In Soil? No	In Groundwater? Yes	In Groundwater? No
Gasoline	○	○	○	○
Diesel or Fuel Oil	○	○	○	○
Solvents	◉	○	◉	○
Heavy Metals	○	○	○	○
Pesticides	○	○	○	○
Other: _____	○	○	○	○

This sampling event included sampling of a drinking water well.
○ Yes ◉ No

If yes, the sampled drinking water well had detectable contaminants.
○ Yes ○ No

Contaminants in Vapor	Yes	No
Indoor Air	○	◉
Sub-slab	◉	○
Exterior Soil Gas	○	○

Attached are:

- A map that shows the locations from which samples were collected. (The map needs to meet the requirements of s. NR 716.15 (4), Wis. Adm. Code.)
- A data table with specific contaminant levels at each sample location and whether or not the sample results exceed state standards.
- A copy of the laboratory results.

You are not identified as the person that is responsible for this contamination. However, your cooperation is important. Property owners may become legally responsible for contamination if they do not allow access to the person that is responsible so that person may complete the environmental investigation and clean up activities.

Option for written exemption: You have the option of requesting a written liability exemption from the DNR for contamination that originated on another property, or on property that you lease. To do this, you must present an adequate environmental assessment of your property and pay a $700 fee for review of this information. If you are interested in this option, please see DNR publication # RR 589, "When Contamination Crosses a Property Line - Rights and Responsibilities of Property Owners", available at: dnr.wi.gov/files/PDF/pubs/rr/rr589.pdf.

Contact Information

Please address questions regarding this notification, or requests for additional information to the contact person listed above, or to one of the following contacts:

Environmental Consultant

Company Name	Contact Person Last Name	First Name
Key Engineering Group, Ltd	Schoen	Toni

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

Phone # (inc. area code)	Email
(414) 225-0594	tschoen@keyengineering.com

Select which agency: (●) Natural Resources ( ) Agriculture, Trade and Consumer Protection

State of Wisconsin Department of Natural Resources

Contact Person Last Name	First Name	Phone # (inc. area code)
Grittner	Paul	(262) 574-2166

Address	City	State	ZIP Code
141 NW Barstow Street, Suite 180	Waukesha	WI	53188

Email
paul.grittner@wisconsin.gov

Attachment 2

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 26, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10512032001	**SS-11**	Air	03/16/20 10:23	03/17/20 15:00
10512032002	**SS-12**	Air	03/16/20 10:20	03/17/20 15:00
10512032003	**SS-13**	Air	03/16/20 10:21	03/17/20 15:00

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10512032001	**SS-11**	TO-15	CH1	61	PASI-M
10512032002	**SS-12**	TO-15	CH1	61	PASI-M
10512032003	**SS-13**	TO-15	CH1	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512032001	**SS-11**					
TO-15	Acetone	40.7	ug/m3	3.9	03/25/20 20:27	
TO-15	Benzene	1.5	ug/m3	0.52	03/25/20 20:27	
TO-15	2-Butanone (MEK)	27.7	ug/m3	4.8	03/25/20 20:27	
TO-15	Cyclohexane	4.2	ug/m3	2.8	03/25/20 20:27	
TO-15	Dichlorodifluoromethane	6.2	ug/m3	1.6	03/25/20 20:27	
TO-15	Ethanol	92.5	ug/m3	3.1	03/25/20 20:27	
TO-15	Ethyl acetate	8.6	ug/m3	1.2	03/25/20 20:27	
TO-15	Ethylbenzene	3.1	ug/m3	1.4	03/25/20 20:27	
TO-15	4-Ethyltoluene	2.1J	ug/m3	4.0	03/25/20 20:27	
TO-15	n-Heptane	3.0	ug/m3	1.3	03/25/20 20:27	
TO-15	n-Hexane	2.4	ug/m3	1.2	03/25/20 20:27	
TO-15	2-Hexanone	6.1J	ug/m3	6.7	03/25/20 20:27	
TO-15	Methylene Chloride	21.0	ug/m3	5.7	03/25/20 20:27	
TO-15	4-Methyl-2-pentanone (MIBK)	1.8J	ug/m3	6.7	03/25/20 20:27	
TO-15	2-Propanol	9.5	ug/m3	4.0	03/25/20 20:27	
TO-15	Styrene	1.2J	ug/m3	1.4	03/25/20 20:27	
TO-15	Tetrachloroethene	81.8	ug/m3	1.1	03/25/20 20:27	
TO-15	Tetrahydrofuran	118	ug/m3	0.97	03/25/20 20:27	
TO-15	Toluene	13.6	ug/m3	1.2	03/25/20 20:27	
TO-15	Trichloroethene	5.0	ug/m3	0.88	03/25/20 20:27	
TO-15	Trichlorofluoromethane	1.5J	ug/m3	1.8	03/25/20 20:27	
TO-15	1,2,4-Trimethylbenzene	7.5	ug/m3	1.6	03/25/20 20:27	
TO-15	1,3,5-Trimethylbenzene	3.1	ug/m3	1.6	03/25/20 20:27	
TO-15	m&p-Xylene	9.7	ug/m3	2.8	03/25/20 20:27	
TO-15	o-Xylene	4.2	ug/m3	1.4	03/25/20 20:27	
10512032002	**SS-12**					
TO-15	Acetone	23.4	ug/m3	3.3	03/25/20 20:57	
TO-15	Benzene	1.6	ug/m3	0.45	03/25/20 20:57	
TO-15	2-Butanone (MEK)	26.0	ug/m3	4.2	03/25/20 20:57	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.4	03/25/20 20:57	
TO-15	Ethanol	97.9	ug/m3	2.7	03/25/20 20:57	
TO-15	Ethylbenzene	3.0	ug/m3	1.2	03/25/20 20:57	
TO-15	4-Ethyltoluene	1.9J	ug/m3	3.5	03/25/20 20:57	
TO-15	n-Heptane	2.8	ug/m3	1.2	03/25/20 20:57	
TO-15	n-Hexane	2.4	ug/m3	1.0	03/25/20 20:57	
TO-15	Methylene Chloride	406	ug/m3	4.9	03/25/20 20:57	
TO-15	2-Propanol	9.1	ug/m3	3.5	03/25/20 20:57	
TO-15	Styrene	1.2	ug/m3	1.2	03/25/20 20:57	
TO-15	Tetrachloroethene	1000	ug/m3	4.8	03/26/20 11:21	
TO-15	Tetrahydrofuran	135	ug/m3	4.2	03/26/20 11:21	
TO-15	Toluene	12.5	ug/m3	1.1	03/25/20 20:57	
TO-15	1,1,1-Trichloroethane	5.0	ug/m3	1.5	03/25/20 20:57	
TO-15	Trichloroethene	57.7	ug/m3	0.76	03/25/20 20:57	
TO-15	Trichlorofluoromethane	2.0	ug/m3	1.6	03/25/20 20:57	
TO-15	1,1,2-Trichlorotrifluoroethane	3.3	ug/m3	2.2	03/25/20 20:57	
TO-15	1,2,4-Trimethylbenzene	7.5	ug/m3	1.4	03/25/20 20:57	
TO-15	1,3,5-Trimethylbenzene	2.7	ug/m3	1.4	03/25/20 20:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512032002	**SS-12**					
TO-15	m&p-Xylene	9.5	ug/m3	2.5	03/25/20 20:57	
TO-15	o-Xylene	4.1	ug/m3	1.2	03/25/20 20:57	
10512032003	**SS-13**					
TO-15	Acetone	28.4	ug/m3	4.0	03/25/20 21:26	
TO-15	Benzene	1.2	ug/m3	0.53	03/25/20 21:26	
TO-15	2-Butanone (MEK)	22.7	ug/m3	4.9	03/25/20 21:26	
TO-15	Dichlorodifluoromethane	3.4	ug/m3	1.7	03/25/20 21:26	
TO-15	Ethanol	87.5	ug/m3	3.1	03/25/20 21:26	
TO-15	Ethylbenzene	3.0	ug/m3	1.4	03/25/20 21:26	
TO-15	4-Ethyltoluene	2.2J	ug/m3	4.1	03/25/20 21:26	
TO-15	n-Heptane	2.6	ug/m3	1.4	03/25/20 21:26	
TO-15	n-Hexane	2.1	ug/m3	1.2	03/25/20 21:26	
TO-15	Methylene Chloride	24.5	ug/m3	5.8	03/25/20 21:26	
TO-15	2-Propanol	23.2	ug/m3	4.1	03/25/20 21:26	
TO-15	Styrene	1.4	ug/m3	1.4	03/25/20 21:26	
TO-15	Tetrachloroethene	5.4	ug/m3	1.1	03/25/20 21:26	
TO-15	Tetrahydrofuran	112	ug/m3	0.98	03/25/20 21:26	
TO-15	Toluene	12.2	ug/m3	1.3	03/25/20 21:26	
TO-15	Trichlorofluoromethane	1.8J	ug/m3	1.9	03/25/20 21:26	
TO-15	1,2,4-Trimethylbenzene	8.0	ug/m3	1.6	03/25/20 21:26	
TO-15	1,3,5-Trimethylbenzene	3.1	ug/m3	1.6	03/25/20 21:26	
TO-15	m&p-Xylene	10.6	ug/m3	2.9	03/25/20 21:26	
TO-15	o-Xylene	4.4	ug/m3	1.4	03/25/20 21:26	

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Sample: SS-11 **Lab ID: 10512032001** Collected: 03/16/20 10:23 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**40.7**	ug/m3	3.9	1.9	1.61		03/25/20 20:27	67-64-1	
Benzene	**1.5**	ug/m3	0.52	0.25	1.61		03/25/20 20:27	71-43-2	
Benzyl chloride	**<1.9**	ug/m3	4.2	1.9	1.61		03/25/20 20:27	100-44-7	
Bromodichloromethane	**<0.59**	ug/m3	2.2	0.59	1.61		03/25/20 20:27	75-27-4	
Bromoform	**<2.3**	ug/m3	8.5	2.3	1.61		03/25/20 20:27	75-25-2	
Bromomethane	**<0.37**	ug/m3	1.3	0.37	1.61		03/25/20 20:27	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.72	0.21	1.61		03/25/20 20:27	106-99-0	
2-Butanone (MEK)	**27.7**	ug/m3	4.8	0.59	1.61		03/25/20 20:27	78-93-3	
Carbon disulfide	**<0.35**	ug/m3	1.0	0.35	1.61		03/25/20 20:27	75-15-0	
Carbon tetrachloride	**<0.69**	ug/m3	2.1	0.69	1.61		03/25/20 20:27	56-23-5	
Chlorobenzene	**<0.44**	ug/m3	1.5	0.44	1.61		03/25/20 20:27	108-90-7	
Chloroethane	**<0.42**	ug/m3	0.86	0.42	1.61		03/25/20 20:27	75-00-3	
Chloroform	**<0.32**	ug/m3	0.80	0.32	1.61		03/25/20 20:27	67-66-3	
Chloromethane	**<0.25**	ug/m3	0.68	0.25	1.61		03/25/20 20:27	74-87-3	
Cyclohexane	**4.2**	ug/m3	2.8	0.57	1.61		03/25/20 20:27	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.8	1.2	1.61		03/25/20 20:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.59**	ug/m3	1.3	0.59	1.61		03/25/20 20:27	106-93-4	
1,2-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		03/25/20 20:27	95-50-1	
1,3-Dichlorobenzene	**<0.94**	ug/m3	2.0	0.94	1.61		03/25/20 20:27	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	4.9	1.6	1.61		03/25/20 20:27	106-46-7	
Dichlorodifluoromethane	**6.2**	ug/m3	1.6	0.47	1.61		03/25/20 20:27	75-71-8	
1,1-Dichloroethane	**<0.36**	ug/m3	1.3	0.36	1.61		03/25/20 20:27	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/m3	0.66	0.24	1.61		03/25/20 20:27	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.3	0.44	1.61		03/25/20 20:27	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		03/25/20 20:27	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		03/25/20 20:27	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/m3	1.5	0.37	1.61		03/25/20 20:27	78-87-5	
cis-1,3-Dichloropropene	**<0.49**	ug/m3	1.5	0.49	1.61		03/25/20 20:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.71**	ug/m3	1.5	0.71	1.61		03/25/20 20:27	10061-02-6	
Dichlorotetrafluoroethane	**<0.70**	ug/m3	2.3	0.70	1.61		03/25/20 20:27	76-14-2	
Ethanol	**92.5**	ug/m3	3.1	1.3	1.61		03/25/20 20:27	64-17-5	
Ethyl acetate	**8.6**	ug/m3	1.2	0.31	1.61		03/25/20 20:27	141-78-6	
Ethylbenzene	**3.1**	ug/m3	1.4	0.49	1.61		03/25/20 20:27	100-41-4	
4-Ethyltoluene	**2.1J**	ug/m3	4.0	0.92	1.61		03/25/20 20:27	622-96-8	
n-Heptane	**3.0**	ug/m3	1.3	0.61	1.61		03/25/20 20:27	142-82-5	
Hexachloro-1,3-butadiene	**<3.2**	ug/m3	8.7	3.2	1.61		03/25/20 20:27	87-68-3	
n-Hexane	**2.4**	ug/m3	1.2	0.50	1.61		03/25/20 20:27	110-54-3	
2-Hexanone	**6.1J**	ug/m3	6.7	1.2	1.61		03/25/20 20:27	591-78-6	
Methylene Chloride	**21.0**	ug/m3	5.7	1.9	1.61		03/25/20 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.8J**	ug/m3	6.7	0.83	1.61		03/25/20 20:27	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	5.9	1.1	1.61		03/25/20 20:27	1634-04-4	
Naphthalene	**<2.1**	ug/m3	4.3	2.1	1.61		03/25/20 20:27	91-20-3	
2-Propanol	**9.5**	ug/m3	4.0	1.1	1.61		03/25/20 20:27	67-63-0	
Propylene	**<0.23**	ug/m3	0.56	0.23	1.61		03/25/20 20:27	115-07-1	
Styrene	**1.2J**	ug/m3	1.4	0.55	1.61		03/25/20 20:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.50**	ug/m3	1.1	0.50	1.61		03/25/20 20:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Sample: SS-11 **Lab ID: 10512032001** Collected: 03/16/20 10:23 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**81.8**	ug/m3	1.1	0.51	1.61		03/25/20 20:27	127-18-4	
Tetrahydrofuran	**118**	ug/m3	0.97	0.42	1.61		03/25/20 20:27	109-99-9	
Toluene	**13.6**	ug/m3	1.2	0.57	1.61		03/25/20 20:27	108-88-3	
1,2,4-Trichlorobenzene	**<6.0**	ug/m3	12.1	6.0	1.61		03/25/20 20:27	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	1.8	0.50	1.61		03/25/20 20:27	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.89	0.39	1.61		03/25/20 20:27	79-00-5	
Trichloroethene	**5.0**	ug/m3	0.88	0.41	1.61		03/25/20 20:27	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.8	0.59	1.61		03/25/20 20:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.91**	ug/m3	2.5	0.91	1.61		03/25/20 20:27	76-13-1	
1,2,4-Trimethylbenzene	**7.5**	ug/m3	1.6	0.73	1.61		03/25/20 20:27	95-63-6	
1,3,5-Trimethylbenzene	**3.1**	ug/m3	1.6	0.64	1.61		03/25/20 20:27	108-67-8	
Vinyl acetate	**<0.43**	ug/m3	1.2	0.43	1.61		03/25/20 20:27	108-05-4	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		03/25/20 20:27	75-01-4	
m&p-Xylene	**9.7**	ug/m3	2.8	1.1	1.61		03/25/20 20:27	179601-23-1	
o-Xylene	**4.2**	ug/m3	1.4	0.55	1.61		03/25/20 20:27	95-47-6	

Sample: SS-12 **Lab ID: 10512032002** Collected: 03/16/20 10:20 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**23.4**	ug/m3	3.3	1.7	1.39		03/25/20 20:57	67-64-1	
Benzene	**1.6**	ug/m3	0.45	0.21	1.39		03/25/20 20:57	71-43-2	
Benzyl chloride	**<1.7**	ug/m3	3.7	1.7	1.39		03/25/20 20:57	100-44-7	
Bromodichloromethane	**<0.51**	ug/m3	1.9	0.51	1.39		03/25/20 20:57	75-27-4	
Bromoform	**<2.0**	ug/m3	7.3	2.0	1.39		03/25/20 20:57	75-25-2	
Bromomethane	**<0.32**	ug/m3	1.1	0.32	1.39		03/25/20 20:57	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.63	0.18	1.39		03/25/20 20:57	106-99-0	
2-Butanone (MEK)	**26.0**	ug/m3	4.2	0.51	1.39		03/25/20 20:57	78-93-3	
Carbon disulfide	**<0.30**	ug/m3	0.88	0.30	1.39		03/25/20 20:57	75-15-0	
Carbon tetrachloride	**<0.60**	ug/m3	1.8	0.60	1.39		03/25/20 20:57	56-23-5	
Chlorobenzene	**<0.38**	ug/m3	1.3	0.38	1.39		03/25/20 20:57	108-90-7	
Chloroethane	**<0.36**	ug/m3	0.75	0.36	1.39		03/25/20 20:57	75-00-3	
Chloroform	**<0.27**	ug/m3	0.69	0.27	1.39		03/25/20 20:57	67-66-3	
Chloromethane	**<0.22**	ug/m3	0.58	0.22	1.39		03/25/20 20:57	74-87-3	
Cyclohexane	**<0.49**	ug/m3	2.4	0.49	1.39		03/25/20 20:57	110-82-7	
Dibromochloromethane	**<1.0**	ug/m3	2.4	1.0	1.39		03/25/20 20:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.51**	ug/m3	1.1	0.51	1.39		03/25/20 20:57	106-93-4	
1,2-Dichlorobenzene	**<0.69**	ug/m3	1.7	0.69	1.39		03/25/20 20:57	95-50-1	
1,3-Dichlorobenzene	**<0.81**	ug/m3	1.7	0.81	1.39		03/25/20 20:57	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.3	1.4	1.39		03/25/20 20:57	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.4	0.41	1.39		03/25/20 20:57	75-71-8	
1,1-Dichloroethane	**<0.31**	ug/m3	1.1	0.31	1.39		03/25/20 20:57	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/m3	0.57	0.21	1.39		03/25/20 20:57	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Sample: SS-12 **Lab ID: 10512032002** Collected: 03/16/20 10:20 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.38**	ug/m3	1.1	0.38	1.39		03/25/20 20:57	75-35-4	
cis-1,2-Dichloroethene	**<0.30**	ug/m3	1.1	0.30	1.39		03/25/20 20:57	156-59-2	
trans-1,2-Dichloroethene	**<0.40**	ug/m3	1.1	0.40	1.39		03/25/20 20:57	156-60-5	
1,2-Dichloropropane	**<0.32**	ug/m3	1.3	0.32	1.39		03/25/20 20:57	78-87-5	
cis-1,3-Dichloropropene	**<0.42**	ug/m3	1.3	0.42	1.39		03/25/20 20:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.61**	ug/m3	1.3	0.61	1.39		03/25/20 20:57	10061-02-6	
Dichlorotetrafluoroethane	**<0.61**	ug/m3	2.0	0.61	1.39		03/25/20 20:57	76-14-2	
Ethanol	**97.9**	ug/m3	2.7	1.1	1.39		03/25/20 20:57	64-17-5	
Ethyl acetate	**<0.26**	ug/m3	1.0	0.26	1.39		03/25/20 20:57	141-78-6	
Ethylbenzene	**3.0**	ug/m3	1.2	0.42	1.39		03/25/20 20:57	100-41-4	
4-Ethyltoluene	**1.9J**	ug/m3	3.5	0.79	1.39		03/25/20 20:57	622-96-8	
n-Heptane	**2.8**	ug/m3	1.2	0.53	1.39		03/25/20 20:57	142-82-5	
Hexachloro-1,3-butadiene	**<2.7**	ug/m3	7.5	2.7	1.39		03/25/20 20:57	87-68-3	
n-Hexane	**2.4**	ug/m3	1.0	0.43	1.39		03/25/20 20:57	110-54-3	
2-Hexanone	**<1.0**	ug/m3	5.8	1.0	1.39		03/25/20 20:57	591-78-6	
Methylene Chloride	**406**	ug/m3	4.9	1.7	1.39		03/25/20 20:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.72**	ug/m3	5.8	0.72	1.39		03/25/20 20:57	108-10-1	
Methyl-tert-butyl ether	**<0.92**	ug/m3	5.1	0.92	1.39		03/25/20 20:57	1634-04-4	
Naphthalene	**<1.8**	ug/m3	3.7	1.8	1.39		03/25/20 20:57	91-20-3	
2-Propanol	**9.1**	ug/m3	3.5	0.97	1.39		03/25/20 20:57	67-63-0	
Propylene	**<0.19**	ug/m3	0.49	0.19	1.39		03/25/20 20:57	115-07-1	
Styrene	**1.2**	ug/m3	1.2	0.48	1.39		03/25/20 20:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.43**	ug/m3	0.97	0.43	1.39		03/25/20 20:57	79-34-5	
Tetrachloroethene	**1000**	ug/m3	4.8	2.2	6.95		03/26/20 11:21	127-18-4	
Tetrahydrofuran	**135**	ug/m3	4.2	1.8	6.95		03/26/20 11:21	109-99-9	
Toluene	**12.5**	ug/m3	1.1	0.49	1.39		03/25/20 20:57	108-88-3	
1,2,4-Trichlorobenzene	**<5.2**	ug/m3	10.5	5.2	1.39		03/25/20 20:57	120-82-1	
1,1,1-Trichloroethane	**5.0**	ug/m3	1.5	0.43	1.39		03/25/20 20:57	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	0.77	0.34	1.39		03/25/20 20:57	79-00-5	
Trichloroethene	**57.7**	ug/m3	0.76	0.35	1.39		03/25/20 20:57	79-01-6	
Trichlorofluoromethane	**2.0**	ug/m3	1.6	0.51	1.39		03/25/20 20:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.3**	ug/m3	2.2	0.78	1.39		03/25/20 20:57	76-13-1	
1,2,4-Trimethylbenzene	**7.5**	ug/m3	1.4	0.63	1.39		03/25/20 20:57	95-63-6	
1,3,5-Trimethylbenzene	**2.7**	ug/m3	1.4	0.55	1.39		03/25/20 20:57	108-67-8	
Vinyl acetate	**<0.38**	ug/m3	1.0	0.38	1.39		03/25/20 20:57	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.36	0.18	1.39		03/25/20 20:57	75-01-4	
m&p-Xylene	**9.5**	ug/m3	2.5	0.97	1.39		03/25/20 20:57	179601-23-1	
o-Xylene	**4.1**	ug/m3	1.2	0.48	1.39		03/25/20 20:57	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Sample: SS-13 **Lab ID: 10512032003** Collected: 03/16/20 10:21 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.4**	ug/m3	4.0	2.0	1.64		03/25/20 21:26	67-64-1	
Benzene	**1.2**	ug/m3	0.53	0.25	1.64		03/25/20 21:26	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.3	2.0	1.64		03/25/20 21:26	100-44-7	
Bromodichloromethane	**<0.60**	ug/m3	2.2	0.60	1.64		03/25/20 21:26	75-27-4	
Bromoform	**<2.3**	ug/m3	8.6	2.3	1.64		03/25/20 21:26	75-25-2	
Bromomethane	**<0.37**	ug/m3	1.3	0.37	1.64		03/25/20 21:26	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.74	0.21	1.64		03/25/20 21:26	106-99-0	
2-Butanone (MEK)	**22.7**	ug/m3	4.9	0.61	1.64		03/25/20 21:26	78-93-3	
Carbon disulfide	**<0.36**	ug/m3	1.0	0.36	1.64		03/25/20 21:26	75-15-0	
Carbon tetrachloride	**<0.70**	ug/m3	2.1	0.70	1.64		03/25/20 21:26	56-23-5	
Chlorobenzene	**<0.45**	ug/m3	1.5	0.45	1.64		03/25/20 21:26	108-90-7	
Chloroethane	**<0.43**	ug/m3	0.88	0.43	1.64		03/25/20 21:26	75-00-3	
Chloroform	**<0.32**	ug/m3	0.81	0.32	1.64		03/25/20 21:26	67-66-3	
Chloromethane	**<0.26**	ug/m3	0.69	0.26	1.64		03/25/20 21:26	74-87-3	
Cyclohexane	**<0.58**	ug/m3	2.9	0.58	1.64		03/25/20 21:26	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.8	1.2	1.64		03/25/20 21:26	124-48-1	
1,2-Dibromoethane (EDB)	**<0.60**	ug/m3	1.3	0.60	1.64		03/25/20 21:26	106-93-4	
1,2-Dichlorobenzene	**<0.82**	ug/m3	2.0	0.82	1.64		03/25/20 21:26	95-50-1	
1,3-Dichlorobenzene	**<0.95**	ug/m3	2.0	0.95	1.64		03/25/20 21:26	541-73-1	
1,4-Dichlorobenzene	**<1.6**	ug/m3	5.0	1.6	1.64		03/25/20 21:26	106-46-7	
Dichlorodifluoromethane	**3.4**	ug/m3	1.7	0.48	1.64		03/25/20 21:26	75-71-8	
1,1-Dichloroethane	**<0.37**	ug/m3	1.3	0.37	1.64		03/25/20 21:26	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.67	0.25	1.64		03/25/20 21:26	107-06-2	
1,1-Dichloroethene	**<0.45**	ug/m3	1.3	0.45	1.64		03/25/20 21:26	75-35-4	
cis-1,2-Dichloroethene	**<0.36**	ug/m3	1.3	0.36	1.64		03/25/20 21:26	156-59-2	
trans-1,2-Dichloroethene	**<0.47**	ug/m3	1.3	0.47	1.64		03/25/20 21:26	156-60-5	
1,2-Dichloropropane	**<0.38**	ug/m3	1.5	0.38	1.64		03/25/20 21:26	78-87-5	
cis-1,3-Dichloropropene	**<0.50**	ug/m3	1.5	0.50	1.64		03/25/20 21:26	10061-01-5	
trans-1,3-Dichloropropene	**<0.72**	ug/m3	1.5	0.72	1.64		03/25/20 21:26	10061-02-6	
Dichlorotetrafluoroethane	**<0.72**	ug/m3	2.3	0.72	1.64		03/25/20 21:26	76-14-2	
Ethanol	**87.5**	ug/m3	3.1	1.3	1.64		03/25/20 21:26	64-17-5	
Ethyl acetate	**<0.31**	ug/m3	1.2	0.31	1.64		03/25/20 21:26	141-78-6	
Ethylbenzene	**3.0**	ug/m3	1.4	0.50	1.64		03/25/20 21:26	100-41-4	
4-Ethyltoluene	**2.2J**	ug/m3	4.1	0.93	1.64		03/25/20 21:26	622-96-8	
n-Heptane	**2.6**	ug/m3	1.4	0.62	1.64		03/25/20 21:26	142-82-5	
Hexachloro-1,3-butadiene	**<3.2**	ug/m3	8.9	3.2	1.64		03/25/20 21:26	87-68-3	
n-Hexane	**2.1**	ug/m3	1.2	0.51	1.64		03/25/20 21:26	110-54-3	
2-Hexanone	**<1.2**	ug/m3	6.8	1.2	1.64		03/25/20 21:26	591-78-6	
Methylene Chloride	**24.5**	ug/m3	5.8	2.0	1.64		03/25/20 21:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.85**	ug/m3	6.8	0.85	1.64		03/25/20 21:26	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.0	1.1	1.64		03/25/20 21:26	1634-04-4	
Naphthalene	**<2.1**	ug/m3	4.4	2.1	1.64		03/25/20 21:26	91-20-3	
2-Propanol	**23.2**	ug/m3	4.1	1.1	1.64		03/25/20 21:26	67-63-0	
Propylene	**<0.23**	ug/m3	0.57	0.23	1.64		03/25/20 21:26	115-07-1	
Styrene	**1.4**	ug/m3	1.4	0.56	1.64		03/25/20 21:26	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.51**	ug/m3	1.1	0.51	1.64		03/25/20 21:26	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Sample: SS-13 **Lab ID: 10512032003** Collected: 03/16/20 10:21 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**5.4**	ug/m3	1.1	0.51	1.64		03/25/20 21:26	127-18-4	
Tetrahydrofuran	**112**	ug/m3	0.98	0.43	1.64		03/25/20 21:26	109-99-9	
Toluene	**12.2**	ug/m3	1.3	0.58	1.64		03/25/20 21:26	108-88-3	
1,2,4-Trichlorobenzene	**<6.1**	ug/m3	12.4	6.1	1.64		03/25/20 21:26	120-82-1	
1,1,1-Trichloroethane	**<0.51**	ug/m3	1.8	0.51	1.64		03/25/20 21:26	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.91	0.40	1.64		03/25/20 21:26	79-00-5	
Trichloroethene	**<0.41**	ug/m3	0.90	0.41	1.64		03/25/20 21:26	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	1.9	0.60	1.64		03/25/20 21:26	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.92**	ug/m3	2.6	0.92	1.64		03/25/20 21:26	76-13-1	
1,2,4-Trimethylbenzene	**8.0**	ug/m3	1.6	0.74	1.64		03/25/20 21:26	95-63-6	
1,3,5-Trimethylbenzene	**3.1**	ug/m3	1.6	0.65	1.64		03/25/20 21:26	108-67-8	
Vinyl acetate	**<0.44**	ug/m3	1.2	0.44	1.64		03/25/20 21:26	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.43	0.21	1.64		03/25/20 21:26	75-01-4	
m&p-Xylene	**10.6**	ug/m3	2.9	1.1	1.64		03/25/20 21:26	179601-23-1	
o-Xylene	**4.4**	ug/m3	1.4	0.56	1.64		03/25/20 21:26	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

QC Batch: 666658 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10512032001, 10512032002, 10512032003

METHOD BLANK: 3574679 Matrix: Air
Associated Lab Samples: 10512032001, 10512032002, 10512032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/25/20 14:47	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	03/25/20 14:47	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	03/25/20 14:47	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/25/20 14:47	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/25/20 14:47	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/25/20 14:47	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/25/20 14:47	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/25/20 14:47	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/25/20 14:47	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/25/20 14:47	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/25/20 14:47	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/25/20 14:47	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/25/20 14:47	
1,3-Butadiene	ug/m3	<0.13	0.45	03/25/20 14:47	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/25/20 14:47	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/25/20 14:47	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/25/20 14:47	
2-Hexanone	ug/m3	<0.74	4.2	03/25/20 14:47	
2-Propanol	ug/m3	<0.70	2.5	03/25/20 14:47	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/25/20 14:47	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/25/20 14:47	
Acetone	ug/m3	<1.2	2.4	03/25/20 14:47	
Benzene	ug/m3	<0.15	0.32	03/25/20 14:47	
Benzyl chloride	ug/m3	<1.2	2.6	03/25/20 14:47	
Bromodichloromethane	ug/m3	<0.37	1.4	03/25/20 14:47	
Bromoform	ug/m3	<1.4	5.2	03/25/20 14:47	
Bromomethane	ug/m3	<0.23	0.79	03/25/20 14:47	
Carbon disulfide	ug/m3	<0.22	0.63	03/25/20 14:47	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/25/20 14:47	
Chlorobenzene	ug/m3	<0.28	0.94	03/25/20 14:47	
Chloroethane	ug/m3	<0.26	0.54	03/25/20 14:47	
Chloroform	ug/m3	<0.20	0.50	03/25/20 14:47	
Chloromethane	ug/m3	<0.16	0.42	03/25/20 14:47	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/25/20 14:47	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/25/20 14:47	
Cyclohexane	ug/m3	<0.35	1.8	03/25/20 14:47	
Dibromochloromethane	ug/m3	<0.72	1.7	03/25/20 14:47	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/25/20 14:47	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/25/20 14:47	
Ethanol	ug/m3	<0.81	1.9	03/25/20 14:47	
Ethyl acetate	ug/m3	<0.19	0.73	03/25/20 14:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

METHOD BLANK: 3574679 Matrix: Air
Associated Lab Samples: 10512032001, 10512032002, 10512032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/25/20 14:47	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/25/20 14:47	
m&p-Xylene	ug/m3	<0.70	1.8	03/25/20 14:47	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/25/20 14:47	
Methylene Chloride	ug/m3	<1.2	3.5	03/25/20 14:47	
n-Heptane	ug/m3	<0.38	0.83	03/25/20 14:47	
n-Hexane	ug/m3	<0.31	0.72	03/25/20 14:47	
Naphthalene	ug/m3	<1.3	2.7	03/25/20 14:47	
o-Xylene	ug/m3	<0.34	0.88	03/25/20 14:47	
Propylene	ug/m3	<0.14	0.35	03/25/20 14:47	
Styrene	ug/m3	<0.34	0.87	03/25/20 14:47	
Tetrachloroethene	ug/m3	<0.31	0.69	03/25/20 14:47	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/25/20 14:47	
Toluene	ug/m3	<0.35	0.77	03/25/20 14:47	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/25/20 14:47	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/25/20 14:47	
Trichloroethene	ug/m3	<0.25	0.55	03/25/20 14:47	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/25/20 14:47	
Vinyl acetate	ug/m3	<0.27	0.72	03/25/20 14:47	
Vinyl chloride	ug/m3	<0.13	0.26	03/25/20 14:47	

LABORATORY CONTROL SAMPLE: 3574680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.7	65.5	116	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	73.4	88.0	120	70-132	
1,1,2-Trichloroethane	ug/m3	57.4	65.7	114	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.1	92.0	113	70-130	
1,1-Dichloroethane	ug/m3	43	51.8	121	70-130	
1,1-Dichloroethene	ug/m3	43.2	50.8	118	69-137	
1,2,4-Trichlorobenzene	ug/m3	81.1	120	148	70-130	L3,SS
1,2,4-Trimethylbenzene	ug/m3	52.3	62.9	120	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.1	100	122	70-138	
1,2-Dichlorobenzene	ug/m3	63.2	81.1	128	70-136	
1,2-Dichloroethane	ug/m3	42.8	52.2	122	70-130	
1,2-Dichloropropane	ug/m3	48.8	61.0	125	70-132	
1,3,5-Trimethylbenzene	ug/m3	53	60.0	113	70-136	
1,3-Butadiene	ug/m3	24.6	29.0	118	67-139	
1,3-Dichlorobenzene	ug/m3	60.3	82.8	137	70-138	
1,4-Dichlorobenzene	ug/m3	66	85.2	129	70-145	
2-Butanone (MEK)	ug/m3	30	33.7	112	61-130	
2-Hexanone	ug/m3	37.6	49.6	132	70-138	
2-Propanol	ug/m3	27.5	36.1	131	70-136	
4-Ethyltoluene	ug/m3	52.7	61.6	117	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

LABORATORY CONTROL SAMPLE: 3574680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42.1	52.1	124	70-134	
Acetone	ug/m3	26.2	29.2	112	59-137	
Benzene	ug/m3	34.4	37.8	110	70-133	
Benzyl chloride	ug/m3	52.4	69.5	133	70-139	
Bromodichloromethane	ug/m3	69.1	79.7	115	70-130	
Bromoform	ug/m3	108	81.1	75	60-140	
Bromomethane	ug/m3	41	48.8	119	70-131	
Carbon disulfide	ug/m3	34.3	37.2	108	70-130	
Carbon tetrachloride	ug/m3	65.5	80.0	122	70-133	
Chlorobenzene	ug/m3	49.5	58.4	118	70-131	
Chloroethane	ug/m3	28	36.9	132	70-141	
Chloroform	ug/m3	50	57.6	115	70-130	
Chloromethane	ug/m3	22.1	25.7	116	64-137	
cis-1,2-Dichloroethene	ug/m3	41.8	49.5	118	70-132	
cis-1,3-Dichloropropene	ug/m3	46	61.1	133	70-138	
Cyclohexane	ug/m3	36.4	35.4	97	70-133	
Dibromochloromethane	ug/m3	88.7	91.9	104	70-139	
Dichlorodifluoromethane	ug/m3	54.9	58.1	106	70-130	
Dichlorotetrafluoroethane	ug/m3	77.9	84.7	109	65-133	
Ethanol	ug/m3	21.1	21.5	102	65-135	
Ethyl acetate	ug/m3	37.7	45.4	120	70-135	
Ethylbenzene	ug/m3	46.3	53.6	116	70-142	
Hexachloro-1,3-butadiene	ug/m3	116	135	116	70-134	
m&p-Xylene	ug/m3	46	53.1	115	70-141	
Methyl-tert-butyl ether	ug/m3	34.9	43.1	124	70-131	
Methylene Chloride	ug/m3	38.8	46.2	119	69-130	
n-Heptane	ug/m3	42.8	46.9	109	70-130	
n-Hexane	ug/m3	36.8	37.9	103	70-131	
Naphthalene	ug/m3	58.3	75.3	129	63-130	
o-Xylene	ug/m3	46.5	51.8	112	70-135	
Propylene	ug/m3	18.3	22.5	123	63-139	
Styrene	ug/m3	45.2	55.9	124	70-143	
Tetrachloroethene	ug/m3	74.9	83.6	112	70-136	
Tetrahydrofuran	ug/m3	29.8	39.5	133	70-137	
Toluene	ug/m3	40.4	45.7	113	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	47.0	112	70-132	
trans-1,3-Dichloropropene	ug/m3	43.4	58.4	135	70-139	
Trichloroethene	ug/m3	56.7	65.0	115	70-132	
Trichlorofluoromethane	ug/m3	59.6	67.9	114	65-136	
Vinyl acetate	ug/m3	32.5	39.0	120	66-140	
Vinyl chloride	ug/m3	28.5	33.1	116	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

SAMPLE DUPLICATE: 3575498

Parameter	Units	10511719001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.59		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.59		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.46		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.1		25	
1,1-Dichloroethane	ug/m3	ND	<0.43		25	
1,1-Dichloroethene	ug/m3	ND	<0.53		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<7.1		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.6J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.70		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.96		25	
1,2-Dichloroethane	ug/m3	ND	<0.29		25	
1,2-Dichloropropane	ug/m3	ND	<0.44		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.77		25	
1,3-Butadiene	ug/m3	ND	<0.25		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	10.8	11.1	3	25	
2-Butanone (MEK)	ug/m3	ND	2.2J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	47.7	46.8	2	25	
4-Ethyltoluene	ug/m3	ND	<1.1		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.99		25	
Acetone	ug/m3	42.5	40.9	4	25	
Benzene	ug/m3	2.0	1.8	10	25	
Benzyl chloride	ug/m3	ND	<2.3		25	
Bromodichloromethane	ug/m3	ND	<0.70		25	
Bromoform	ug/m3	ND	<2.7		25	
Bromomethane	ug/m3	ND	<0.44		25	
Carbon disulfide	ug/m3	ND	<0.42		25	
Carbon tetrachloride	ug/m3	ND	<0.82		25	
Chlorobenzene	ug/m3	ND	<0.53		25	
Chloroethane	ug/m3	ND	<0.50		25	
Chloroform	ug/m3	ND	<0.38		25	
Chloromethane	ug/m3	1.1	<0.30		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.58		25	
Cyclohexane	ug/m3	6.0	6.2	4	25	
Dibromochloromethane	ug/m3	ND	<1.4		25	
Dichlorodifluoromethane	ug/m3	5.6	5.1	9	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.84		25	
Ethanol	ug/m3	1010	1020	1	25	E
Ethyl acetate	ug/m3	ND	<0.36		25	
Ethylbenzene	ug/m3	ND	0.78J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.8		25	
m&p-Xylene	ug/m3	ND	2.9J		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.3		25	
Methylene Chloride	ug/m3	ND	4.4J		25	
n-Heptane	ug/m3	ND	0.88J		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

SAMPLE DUPLICATE: 3575498

Parameter	Units	10511719001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.1	2.0	2	25	
Naphthalene	ug/m3	ND	<2.5		25	
o-Xylene	ug/m3	ND	1.1J		25	
Propylene	ug/m3	ND	<0.27		25	
Styrene	ug/m3	ND	<0.66		25	
Tetrachloroethene	ug/m3	ND	<0.60		25	
Tetrahydrofuran	ug/m3	ND	<0.50		25	
Toluene	ug/m3	5.4	5.4	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.84		25	
Trichloroethene	ug/m3	ND	<0.49		25	
Trichlorofluoromethane	ug/m3	3.8	3.7	4	25	
Vinyl acetate	ug/m3	ND	<0.52		25	
Vinyl chloride	ug/m3	ND	<0.24		25	

SAMPLE DUPLICATE: 3575501

Parameter	Units	10511719002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.57		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.57		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.0		25	
1,1-Dichloroethane	ug/m3	ND	<0.41		25	
1,1-Dichloroethene	ug/m3	ND	<0.50		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.8		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.2	9	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.67		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.91		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.73		25	
1,3-Butadiene	ug/m3	ND	<0.23		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.8		25	
2-Butanone (MEK)	ug/m3	ND	1.3J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	558	576	3	25	
4-Ethyltoluene	ug/m3	ND	<1.0		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.95		25	
Acetone	ug/m3	ND	102		25	
Benzene	ug/m3	3.3	3.2	2	25	
Benzyl chloride	ug/m3	ND	<2.2		25	
Bromodichloromethane	ug/m3	ND	<0.67		25	
Bromoform	ug/m3	ND	<2.6		25	
Bromomethane	ug/m3	ND	<0.42		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

SAMPLE DUPLICATE: 3575501

Parameter	Units	10511719002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.40		25	
Carbon tetrachloride	ug/m3	ND	<0.79		25	
Chlorobenzene	ug/m3	ND	<0.50		25	
Chloroethane	ug/m3	ND	<0.48		25	
Chloroform	ug/m3	1.1	1.2	9	25	
Chloromethane	ug/m3	ND	1.6		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.56		25	
Cyclohexane	ug/m3	ND	<0.65		25	
Dibromochloromethane	ug/m3	ND	<1.3		25	
Dichlorodifluoromethane	ug/m3	8.2	8.0	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.80		25	
Ethanol	ug/m3	2050	2050	0	25	E
Ethyl acetate	ug/m3	ND	<0.35		25	
Ethylbenzene	ug/m3	ND	1.3J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.6		25	
m&p-Xylene	ug/m3	4.7	4.8	1	25	
Methyl-tert-butyl ether	ug/m3	ND	<1.2		25	
Methylene Chloride	ug/m3	ND	4.8J		25	
n-Heptane	ug/m3	1.7	1.8	8	25	
n-Hexane	ug/m3	2.4	2.6	11	25	
Naphthalene	ug/m3	ND	<2.4		25	
o-Xylene	ug/m3	1.7	1.7	0	25	
Propylene	ug/m3	ND	<0.26		25	
Styrene	ug/m3	ND	<0.63		25	
Tetrachloroethene	ug/m3	ND	<0.57		25	
Tetrahydrofuran	ug/m3	ND	<0.48		25	
Toluene	ug/m3	7.7	7.7	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	1.0J		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.81		25	
Trichloroethene	ug/m3	ND	<0.46		25	
Trichlorofluoromethane	ug/m3	2.4	2.4	3	25	
Vinyl acetate	ug/m3	ND	<0.49		25	
Vinyl chloride	ug/m3	ND	<0.23		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10512032001	**SS-11**	TO-15	666658		
10512032002	**SS-12**	TO-15	666658		
10512032003	**SS-13**	TO-15	666658		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40434

Page: 1 of 1

Section A Required Client Information:

Company: KEY
Address: 735 N Water
Milwaukee, WI
Email To: TSchoen@keyengineering
Phone: 414.224.8300 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Toni Schoen
Copy To:
Purchase Order No.: Ken
Project Name: Schaefer Brush
Project Number: 1604-1704-0002

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 3491

Program
☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act
☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State

Reporting Units
ug/m³ mg/m³
PPBV PPMV
Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-11			3/16	953	3/16	1023	30	7	2236	1649					X					001
2	SS-12			↓	950	↓	1020	28	4	3451	2828					X					002
3	SS-13			↓	951	↓	1021	30	7	2725	7849					X					003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10512032

10512032

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Keaton Crowe / KEY	3/16	1500	Pace	3/17/2020	1500

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Crowe

SIGNATURE of SAMPLER: Keaton Crowe DATE Signed (MM / DD / YY): 3/16/20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** Key **Project #:** **WO#: 10512032**

PM: KNH **Due Date: 03/31/20**

CLIENT: Key Eng.

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☒

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒Foam ☐None ☐Tin Can ☐Other: **Temp Blank rec:** ☐Yes ☒No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermometer Used:** ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** GNZ 3/17/2020

Type of ice Received ☐Blue ☐Wet ☒None

		Comments:
Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒Yes ☐No ☒Yes ☐No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒Yes ☐No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒Yes ☐No	13.

Gauge # ☐10AIR26 ☒10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS-11	0236	1649	-5	+5					
SS-12	3451	2828	-1	+5					
SS-13	2725	0784	-5.5	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Kristen Hoffberg **Date:** 3/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank

Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
1063 0285 8767	
" " 8778	
" " 8745	
" " 8756	

Other Issues

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 26, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10512033001	**SS-1**	Air	03/16/20 10:16	03/17/20 15:00
10512033002	**SS-9**	Air	03/16/20 10:14	03/17/20 15:00
10512033003	**SS-10**	Air	03/16/20 10:10	03/17/20 15:00

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10512033001	**SS-1**	TO-15	CH1	61	PASI-M
10512033002	**SS-9**	TO-15	CH1	61	PASI-M
10512033003	**SS-10**	TO-15	CH1	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512033001	**SS-1**					
TO-15	Acetone	23.8	ug/m3	4.0	03/25/20 19:30	
TO-15	Benzene	1.3	ug/m3	0.55	03/25/20 19:30	
TO-15	2-Butanone (MEK)	25.7	ug/m3	5.0	03/25/20 19:30	
TO-15	Chloroform	5.5	ug/m3	0.83	03/25/20 19:30	
TO-15	Cyclohexane	4.2	ug/m3	2.9	03/25/20 19:30	
TO-15	Dichlorodifluoromethane	3.1	ug/m3	1.7	03/25/20 19:30	
TO-15	Ethanol	97.7	ug/m3	3.2	03/25/20 19:30	
TO-15	Ethylbenzene	3.1	ug/m3	1.5	03/25/20 19:30	
TO-15	4-Ethyltoluene	2.3J	ug/m3	4.2	03/25/20 19:30	
TO-15	n-Heptane	3.0	ug/m3	1.4	03/25/20 19:30	
TO-15	n-Hexane	2.6	ug/m3	1.2	03/25/20 19:30	
TO-15	Methylene Chloride	397	ug/m3	5.9	03/25/20 19:30	
TO-15	4-Methyl-2-pentanone (MIBK)	1.6J	ug/m3	7.0	03/25/20 19:30	
TO-15	2-Propanol	13.2	ug/m3	4.2	03/25/20 19:30	
TO-15	Styrene	1.3J	ug/m3	1.5	03/25/20 19:30	
TO-15	Tetrachloroethene	931	ug/m3	34.7	03/26/20 12:18	
TO-15	Tetrahydrofuran	124	ug/m3	1.0	03/25/20 19:30	
TO-15	Toluene	13.7	ug/m3	1.3	03/25/20 19:30	
TO-15	1,1,1-Trichloroethane	6.3	ug/m3	1.9	03/25/20 19:30	
TO-15	Trichloroethene	48.9	ug/m3	0.92	03/25/20 19:30	
TO-15	Trichlorofluoromethane	1.9	ug/m3	1.9	03/25/20 19:30	
TO-15	1,1,2-Trichlorotrifluoroethane	5.2	ug/m3	2.6	03/25/20 19:30	
TO-15	1,2,4-Trimethylbenzene	8.3	ug/m3	1.7	03/25/20 19:30	
TO-15	1,3,5-Trimethylbenzene	2.9	ug/m3	1.7	03/25/20 19:30	
TO-15	m&p-Xylene	10.1	ug/m3	3.0	03/25/20 19:30	
TO-15	o-Xylene	4.4	ug/m3	1.5	03/25/20 19:30	
10512033002	**SS-9**					
TO-15	Acetone	21.2	ug/m3	4.0	03/25/20 19:00	
TO-15	Benzene	1.3	ug/m3	0.55	03/25/20 19:00	
TO-15	2-Butanone (MEK)	23.7	ug/m3	5.0	03/25/20 19:00	
TO-15	Carbon tetrachloride	1.0J	ug/m3	2.2	03/25/20 19:00	
TO-15	Dichlorodifluoromethane	3.2	ug/m3	1.7	03/25/20 19:00	
TO-15	Ethanol	85.6	ug/m3	3.2	03/25/20 19:00	
TO-15	Ethylbenzene	3.8	ug/m3	1.5	03/25/20 19:00	
TO-15	4-Ethyltoluene	2.2J	ug/m3	4.2	03/25/20 19:00	
TO-15	n-Heptane	2.7	ug/m3	1.4	03/25/20 19:00	
TO-15	n-Hexane	1.9	ug/m3	1.2	03/25/20 19:00	
TO-15	Methylene Chloride	11.7	ug/m3	5.9	03/25/20 19:00	
TO-15	4-Methyl-2-pentanone (MIBK)	2.0J	ug/m3	7.0	03/25/20 19:00	
TO-15	2-Propanol	3.7J	ug/m3	4.2	03/25/20 19:00	
TO-15	Styrene	1.5J	ug/m3	1.5	03/25/20 19:00	
TO-15	Tetrachloroethene	237	ug/m3	1.2	03/25/20 19:00	
TO-15	Tetrahydrofuran	121	ug/m3	1.0	03/25/20 19:00	
TO-15	Toluene	14.6	ug/m3	1.3	03/25/20 19:00	
TO-15	1,1,1-Trichloroethane	3.8	ug/m3	1.9	03/25/20 19:00	
TO-15	Trichloroethene	14.7	ug/m3	0.92	03/25/20 19:00	
TO-15	Trichlorofluoromethane	1.9J	ug/m3	1.9	03/25/20 19:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512033002	**SS-9**					
TO-15	1,1,2-Trichlorotrifluoroethane	3.7	ug/m3	2.6	03/25/20 19:00	
TO-15	1,2,4-Trimethylbenzene	7.7	ug/m3	1.7	03/25/20 19:00	
TO-15	1,3,5-Trimethylbenzene	2.8	ug/m3	1.7	03/25/20 19:00	
TO-15	m&p-Xylene	11.9	ug/m3	3.0	03/25/20 19:00	
TO-15	o-Xylene	5.0	ug/m3	1.5	03/25/20 19:00	
10512033003	**SS-10**					
TO-15	Tetrachloroethene	42900	ug/m3	579	03/26/20 13:33	
TO-15	Tetrahydrofuran	67.4	ug/m3	31.5	03/25/20 19:57	
TO-15	Trichloroethene	64.8	ug/m3	28.7	03/25/20 19:57	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Sample: SS-1 **Lab ID: 10512033001** Collected: 03/16/20 10:16 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**23.8**	ug/m3	4.0	2.0	1.68		03/25/20 19:30	67-64-1	
Benzene	**1.3**	ug/m3	0.55	0.26	1.68		03/25/20 19:30	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		03/25/20 19:30	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		03/25/20 19:30	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		03/25/20 19:30	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		03/25/20 19:30	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		03/25/20 19:30	106-99-0	
2-Butanone (MEK)	**25.7**	ug/m3	5.0	0.62	1.68		03/25/20 19:30	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		03/25/20 19:30	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		03/25/20 19:30	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		03/25/20 19:30	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		03/25/20 19:30	75-00-3	
Chloroform	**5.5**	ug/m3	0.83	0.33	1.68		03/25/20 19:30	67-66-3	
Chloromethane	**<0.26**	ug/m3	0.71	0.26	1.68		03/25/20 19:30	74-87-3	
Cyclohexane	**4.2**	ug/m3	2.9	0.59	1.68		03/25/20 19:30	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		03/25/20 19:30	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		03/25/20 19:30	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/25/20 19:30	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		03/25/20 19:30	541-73-1	
1,4-Dichlorobenzene	**<1.7**	ug/m3	5.1	1.7	1.68		03/25/20 19:30	106-46-7	
Dichlorodifluoromethane	**3.1**	ug/m3	1.7	0.49	1.68		03/25/20 19:30	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		03/25/20 19:30	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		03/25/20 19:30	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		03/25/20 19:30	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		03/25/20 19:30	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		03/25/20 19:30	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		03/25/20 19:30	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		03/25/20 19:30	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		03/25/20 19:30	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		03/25/20 19:30	76-14-2	
Ethanol	**97.7**	ug/m3	3.2	1.4	1.68		03/25/20 19:30	64-17-5	
Ethyl acetate	**<0.32**	ug/m3	1.2	0.32	1.68		03/25/20 19:30	141-78-6	
Ethylbenzene	**3.1**	ug/m3	1.5	0.51	1.68		03/25/20 19:30	100-41-4	
4-Ethyltoluene	**2.3J**	ug/m3	4.2	0.96	1.68		03/25/20 19:30	622-96-8	
n-Heptane	**3.0**	ug/m3	1.4	0.64	1.68		03/25/20 19:30	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		03/25/20 19:30	87-68-3	
n-Hexane	**2.6**	ug/m3	1.2	0.52	1.68		03/25/20 19:30	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		03/25/20 19:30	591-78-6	
Methylene Chloride	**397**	ug/m3	5.9	2.0	1.68		03/25/20 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.6J**	ug/m3	7.0	0.87	1.68		03/25/20 19:30	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		03/25/20 19:30	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		03/25/20 19:30	91-20-3	
2-Propanol	**13.2**	ug/m3	4.2	1.2	1.68		03/25/20 19:30	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		03/25/20 19:30	115-07-1	
Styrene	**1.3J**	ug/m3	1.5	0.58	1.68		03/25/20 19:30	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		03/25/20 19:30	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Sample: SS-1 **Lab ID: 10512033001** Collected: 03/16/20 10:16 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**931**	ug/m3	34.7	15.8	50.4		03/26/20 12:18	127-18-4	
Tetrahydrofuran	**124**	ug/m3	1.0	0.44	1.68		03/25/20 19:30	109-99-9	
Toluene	**13.7**	ug/m3	1.3	0.59	1.68		03/25/20 19:30	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		03/25/20 19:30	120-82-1	
1,1,1-Trichloroethane	**6.3**	ug/m3	1.9	0.52	1.68		03/25/20 19:30	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		03/25/20 19:30	79-00-5	
Trichloroethene	**48.9**	ug/m3	0.92	0.43	1.68		03/25/20 19:30	79-01-6	
Trichlorofluoromethane	**1.9**	ug/m3	1.9	0.61	1.68		03/25/20 19:30	75-69-4	
1,1,2-Trichlorotrifluoroethane	**5.2**	ug/m3	2.6	0.95	1.68		03/25/20 19:30	76-13-1	
1,2,4-Trimethylbenzene	**8.3**	ug/m3	1.7	0.76	1.68		03/25/20 19:30	95-63-6	
1,3,5-Trimethylbenzene	**2.9**	ug/m3	1.7	0.67	1.68		03/25/20 19:30	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		03/25/20 19:30	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		03/25/20 19:30	75-01-4	
m&p-Xylene	**10.1**	ug/m3	3.0	1.2	1.68		03/25/20 19:30	179601-23-1	
o-Xylene	**4.4**	ug/m3	1.5	0.58	1.68		03/25/20 19:30	95-47-6	

Sample: SS-9 **Lab ID: 10512033002** Collected: 03/16/20 10:14 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**21.2**	ug/m3	4.0	2.0	1.68		03/25/20 19:00	67-64-1	
Benzene	**1.3**	ug/m3	0.55	0.26	1.68		03/25/20 19:00	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		03/25/20 19:00	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		03/25/20 19:00	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		03/25/20 19:00	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		03/25/20 19:00	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		03/25/20 19:00	106-99-0	
2-Butanone (MEK)	**23.7**	ug/m3	5.0	0.62	1.68		03/25/20 19:00	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		03/25/20 19:00	75-15-0	
Carbon tetrachloride	**1.0J**	ug/m3	2.2	0.72	1.68		03/25/20 19:00	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		03/25/20 19:00	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		03/25/20 19:00	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		03/25/20 19:00	67-66-3	
Chloromethane	**<0.26**	ug/m3	0.71	0.26	1.68		03/25/20 19:00	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		03/25/20 19:00	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		03/25/20 19:00	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		03/25/20 19:00	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/25/20 19:00	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		03/25/20 19:00	541-73-1	
1,4-Dichlorobenzene	**<1.7**	ug/m3	5.1	1.7	1.68		03/25/20 19:00	106-46-7	
Dichlorodifluoromethane	**3.2**	ug/m3	1.7	0.49	1.68		03/25/20 19:00	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		03/25/20 19:00	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		03/25/20 19:00	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Sample: SS-9 **Lab ID: 10512033002** Collected: 03/16/20 10:14 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		03/25/20 19:00	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		03/25/20 19:00	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		03/25/20 19:00	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		03/25/20 19:00	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		03/25/20 19:00	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		03/25/20 19:00	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		03/25/20 19:00	76-14-2	
Ethanol	**85.6**	ug/m3	3.2	1.4	1.68		03/25/20 19:00	64-17-5	
Ethyl acetate	**<0.32**	ug/m3	1.2	0.32	1.68		03/25/20 19:00	141-78-6	
Ethylbenzene	**3.8**	ug/m3	1.5	0.51	1.68		03/25/20 19:00	100-41-4	
4-Ethyltoluene	**2.2J**	ug/m3	4.2	0.96	1.68		03/25/20 19:00	622-96-8	
n-Heptane	**2.7**	ug/m3	1.4	0.64	1.68		03/25/20 19:00	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		03/25/20 19:00	87-68-3	
n-Hexane	**1.9**	ug/m3	1.2	0.52	1.68		03/25/20 19:00	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		03/25/20 19:00	591-78-6	
Methylene Chloride	**11.7**	ug/m3	5.9	2.0	1.68		03/25/20 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.0J**	ug/m3	7.0	0.87	1.68		03/25/20 19:00	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		03/25/20 19:00	1634-04-4	
Naphthalene	**<2.2**	ug/m3	4.5	2.2	1.68		03/25/20 19:00	91-20-3	
2-Propanol	**3.7J**	ug/m3	4.2	1.2	1.68		03/25/20 19:00	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		03/25/20 19:00	115-07-1	
Styrene	**1.5J**	ug/m3	1.5	0.58	1.68		03/25/20 19:00	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		03/25/20 19:00	79-34-5	
Tetrachloroethene	**237**	ug/m3	1.2	0.53	1.68		03/25/20 19:00	127-18-4	
Tetrahydrofuran	**121**	ug/m3	1.0	0.44	1.68		03/25/20 19:00	109-99-9	
Toluene	**14.6**	ug/m3	1.3	0.59	1.68		03/25/20 19:00	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		03/25/20 19:00	120-82-1	
1,1,1-Trichloroethane	**3.8**	ug/m3	1.9	0.52	1.68		03/25/20 19:00	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		03/25/20 19:00	79-00-5	
Trichloroethene	**14.7**	ug/m3	0.92	0.43	1.68		03/25/20 19:00	79-01-6	
Trichlorofluoromethane	**1.9J**	ug/m3	1.9	0.61	1.68		03/25/20 19:00	75-69-4	
1,1,2-Trichlorotrifluoroethane	**3.7**	ug/m3	2.6	0.95	1.68		03/25/20 19:00	76-13-1	
1,2,4-Trimethylbenzene	**7.7**	ug/m3	1.7	0.76	1.68		03/25/20 19:00	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.7	0.67	1.68		03/25/20 19:00	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		03/25/20 19:00	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		03/25/20 19:00	75-01-4	
m&p-Xylene	**11.9**	ug/m3	3.0	1.2	1.68		03/25/20 19:00	179601-23-1	
o-Xylene	**5.0**	ug/m3	1.5	0.58	1.68		03/25/20 19:00	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Sample: SS-10 **Lab ID: 10512033003** Collected: 03/16/20 10:10 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**<63.5**	ug/m3	127	63.5	52.5		03/25/20 19:57	67-64-1	
Benzene	**<8.0**	ug/m3	17.1	8.0	52.5		03/25/20 19:57	71-43-2	
Benzyl chloride	**<63.0**	ug/m3	138	63.0	52.5		03/25/20 19:57	100-44-7	
Bromodichloromethane	**<19.2**	ug/m3	71.4	19.2	52.5		03/25/20 19:57	75-27-4	
Bromoform	**<74.6**	ug/m3	276	74.6	52.5		03/25/20 19:57	75-25-2	
Bromomethane	**<11.9**	ug/m3	41.4	11.9	52.5		03/25/20 19:57	74-83-9	
1,3-Butadiene	**<6.7**	ug/m3	23.6	6.7	52.5		03/25/20 19:57	106-99-0	
2-Butanone (MEK)	**<19.4**	ug/m3	158	19.4	52.5		03/25/20 19:57	78-93-3	
Carbon disulfide	**<11.5**	ug/m3	33.2	11.5	52.5		03/25/20 19:57	75-15-0	
Carbon tetrachloride	**<22.5**	ug/m3	67.2	22.5	52.5		03/25/20 19:57	56-23-5	
Chlorobenzene	**<14.4**	ug/m3	49.1	14.4	52.5		03/25/20 19:57	108-90-7	
Chloroethane	**<13.6**	ug/m3	28.1	13.6	52.5		03/25/20 19:57	75-00-3	
Chloroform	**<10.3**	ug/m3	26.0	10.3	52.5		03/25/20 19:57	67-66-3	
Chloromethane	**<8.2**	ug/m3	22.0	8.2	52.5		03/25/20 19:57	74-87-3	
Cyclohexane	**<18.5**	ug/m3	91.9	18.5	52.5		03/25/20 19:57	110-82-7	
Dibromochloromethane	**<37.7**	ug/m3	90.8	37.7	52.5		03/25/20 19:57	124-48-1	
1,2-Dibromoethane (EDB)	**<19.2**	ug/m3	41.0	19.2	52.5		03/25/20 19:57	106-93-4	
1,2-Dichlorobenzene	**<26.1**	ug/m3	64.0	26.1	52.5		03/25/20 19:57	95-50-1	
1,3-Dichlorobenzene	**<30.5**	ug/m3	64.0	30.5	52.5		03/25/20 19:57	541-73-1	
1,4-Dichlorobenzene	**<52.5**	ug/m3	161	52.5	52.5		03/25/20 19:57	106-46-7	
Dichlorodifluoromethane	**<15.4**	ug/m3	53.0	15.4	52.5		03/25/20 19:57	75-71-8	
1,1-Dichloroethane	**<11.8**	ug/m3	43.2	11.8	52.5		03/25/20 19:57	75-34-3	
1,2-Dichloroethane	**<7.9**	ug/m3	21.6	7.9	52.5		03/25/20 19:57	107-06-2	
1,1-Dichloroethene	**<14.4**	ug/m3	42.3	14.4	52.5		03/25/20 19:57	75-35-4	
cis-1,2-Dichloroethene	**<11.5**	ug/m3	42.3	11.5	52.5		03/25/20 19:57	156-59-2	
trans-1,2-Dichloroethene	**<15.0**	ug/m3	42.3	15.0	52.5		03/25/20 19:57	156-60-5	
1,2-Dichloropropane	**<12.1**	ug/m3	49.3	12.1	52.5		03/25/20 19:57	78-87-5	
cis-1,3-Dichloropropene	**<16.0**	ug/m3	48.5	16.0	52.5		03/25/20 19:57	10061-01-5	
trans-1,3-Dichloropropene	**<23.1**	ug/m3	48.5	23.1	52.5		03/25/20 19:57	10061-02-6	
Dichlorotetrafluoroethane	**<22.9**	ug/m3	74.6	22.9	52.5		03/25/20 19:57	76-14-2	
Ethanol	**<42.6**	ug/m3	101	42.6	52.5		03/25/20 19:57	64-17-5	
Ethyl acetate	**<10**	ug/m3	38.5	10	52.5		03/25/20 19:57	141-78-6	
Ethylbenzene	**<16.0**	ug/m3	46.4	16.0	52.5		03/25/20 19:57	100-41-4	
4-Ethyltoluene	**<29.9**	ug/m3	131	29.9	52.5		03/25/20 19:57	622-96-8	
n-Heptane	**<20.0**	ug/m3	43.7	20.0	52.5		03/25/20 19:57	142-82-5	
Hexachloro-1,3-butadiene	**<103**	ug/m3	285	103	52.5		03/25/20 19:57	87-68-3	
n-Hexane	**<16.3**	ug/m3	37.6	16.3	52.5		03/25/20 19:57	110-54-3	
2-Hexanone	**<39.1**	ug/m3	218	39.1	52.5		03/25/20 19:57	591-78-6	
Methylene Chloride	**<63.5**	ug/m3	185	63.5	52.5		03/25/20 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<27.2**	ug/m3	218	27.2	52.5		03/25/20 19:57	108-10-1	
Methyl-tert-butyl ether	**<34.8**	ug/m3	192	34.8	52.5		03/25/20 19:57	1634-04-4	
Naphthalene	**<68.8**	ug/m3	140	68.8	52.5		03/25/20 19:57	91-20-3	
2-Propanol	**<36.6**	ug/m3	131	36.6	52.5		03/25/20 19:57	67-63-0	
Propylene	**<7.4**	ug/m3	18.4	7.4	52.5		03/25/20 19:57	115-07-1	
Styrene	**<18.1**	ug/m3	45.5	18.1	52.5		03/25/20 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	**<16.2**	ug/m3	36.6	16.2	52.5		03/25/20 19:57	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Sample: SS-10 **Lab ID: 10512033003** Collected: 03/16/20 10:10 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**42900**	ug/m3	579	264	840		03/26/20 13:33	127-18-4	
Tetrahydrofuran	**67.4**	ug/m3	31.5	13.7	52.5		03/25/20 19:57	109-99-9	
Toluene	**<18.4**	ug/m3	40.2	18.4	52.5		03/25/20 19:57	108-88-3	
1,2,4-Trichlorobenzene	**<195**	ug/m3	396	195	52.5		03/25/20 19:57	120-82-1	
1,1,1-Trichloroethane	**<16.2**	ug/m3	58.3	16.2	52.5		03/25/20 19:57	71-55-6	
1,1,2-Trichloroethane	**<12.7**	ug/m3	29.1	12.7	52.5		03/25/20 19:57	79-00-5	
Trichloroethene	**64.8**	ug/m3	28.7	13.3	52.5		03/25/20 19:57	79-01-6	
Trichlorofluoromethane	**<19.2**	ug/m3	59.8	19.2	52.5		03/25/20 19:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<29.6**	ug/m3	81.9	29.6	52.5		03/25/20 19:57	76-13-1	
1,2,4-Trimethylbenzene	**<23.7**	ug/m3	52.4	23.7	52.5		03/25/20 19:57	95-63-6	
1,3,5-Trimethylbenzene	**<20.9**	ug/m3	52.4	20.9	52.5		03/25/20 19:57	108-67-8	
Vinyl acetate	**<14.2**	ug/m3	37.6	14.2	52.5		03/25/20 19:57	108-05-4	
Vinyl chloride	**<6.6**	ug/m3	13.6	6.6	52.5		03/25/20 19:57	75-01-4	
m&p-Xylene	**<36.7**	ug/m3	92.9	36.7	52.5		03/25/20 19:57	179601-23-1	
o-Xylene	**<18.1**	ug/m3	46.4	18.1	52.5		03/25/20 19:57	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

QC Batch: 666658 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10512033001, 10512033002, 10512033003

METHOD BLANK: 3574679 Matrix: Air
Associated Lab Samples: 10512033001, 10512033002, 10512033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/25/20 14:47	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	03/25/20 14:47	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	03/25/20 14:47	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/25/20 14:47	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/25/20 14:47	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/25/20 14:47	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/25/20 14:47	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/25/20 14:47	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/25/20 14:47	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/25/20 14:47	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/25/20 14:47	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/25/20 14:47	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/25/20 14:47	
1,3-Butadiene	ug/m3	<0.13	0.45	03/25/20 14:47	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/25/20 14:47	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/25/20 14:47	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/25/20 14:47	
2-Hexanone	ug/m3	<0.74	4.2	03/25/20 14:47	
2-Propanol	ug/m3	<0.70	2.5	03/25/20 14:47	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/25/20 14:47	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/25/20 14:47	
Acetone	ug/m3	<1.2	2.4	03/25/20 14:47	
Benzene	ug/m3	<0.15	0.32	03/25/20 14:47	
Benzyl chloride	ug/m3	<1.2	2.6	03/25/20 14:47	
Bromodichloromethane	ug/m3	<0.37	1.4	03/25/20 14:47	
Bromoform	ug/m3	<1.4	5.2	03/25/20 14:47	
Bromomethane	ug/m3	<0.23	0.79	03/25/20 14:47	
Carbon disulfide	ug/m3	<0.22	0.63	03/25/20 14:47	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/25/20 14:47	
Chlorobenzene	ug/m3	<0.28	0.94	03/25/20 14:47	
Chloroethane	ug/m3	<0.26	0.54	03/25/20 14:47	
Chloroform	ug/m3	<0.20	0.50	03/25/20 14:47	
Chloromethane	ug/m3	<0.16	0.42	03/25/20 14:47	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/25/20 14:47	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/25/20 14:47	
Cyclohexane	ug/m3	<0.35	1.8	03/25/20 14:47	
Dibromochloromethane	ug/m3	<0.72	1.7	03/25/20 14:47	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/25/20 14:47	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/25/20 14:47	
Ethanol	ug/m3	<0.81	1.9	03/25/20 14:47	
Ethyl acetate	ug/m3	<0.19	0.73	03/25/20 14:47	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

METHOD BLANK: 3574679 Matrix: Air
Associated Lab Samples: 10512033001, 10512033002, 10512033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/25/20 14:47	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/25/20 14:47	
m&p-Xylene	ug/m3	<0.70	1.8	03/25/20 14:47	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/25/20 14:47	
Methylene Chloride	ug/m3	<1.2	3.5	03/25/20 14:47	
n-Heptane	ug/m3	<0.38	0.83	03/25/20 14:47	
n-Hexane	ug/m3	<0.31	0.72	03/25/20 14:47	
Naphthalene	ug/m3	<1.3	2.7	03/25/20 14:47	
o-Xylene	ug/m3	<0.34	0.88	03/25/20 14:47	
Propylene	ug/m3	<0.14	0.35	03/25/20 14:47	
Styrene	ug/m3	<0.34	0.87	03/25/20 14:47	
Tetrachloroethene	ug/m3	<0.31	0.69	03/25/20 14:47	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/25/20 14:47	
Toluene	ug/m3	<0.35	0.77	03/25/20 14:47	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/25/20 14:47	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/25/20 14:47	
Trichloroethene	ug/m3	<0.25	0.55	03/25/20 14:47	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/25/20 14:47	
Vinyl acetate	ug/m3	<0.27	0.72	03/25/20 14:47	
Vinyl chloride	ug/m3	<0.13	0.26	03/25/20 14:47	

LABORATORY CONTROL SAMPLE: 3574680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.7	65.5	116	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	73.4	88.0	120	70-132	
1,1,2-Trichloroethane	ug/m3	57.4	65.7	114	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.1	92.0	113	70-130	
1,1-Dichloroethane	ug/m3	43	51.8	121	70-130	
1,1-Dichloroethene	ug/m3	43.2	50.8	118	69-137	
1,2,4-Trichlorobenzene	ug/m3	81.1	120	148	70-130	L3,SS
1,2,4-Trimethylbenzene	ug/m3	52.3	62.9	120	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.1	100	122	70-138	
1,2-Dichlorobenzene	ug/m3	63.2	81.1	128	70-136	
1,2-Dichloroethane	ug/m3	42.8	52.2	122	70-130	
1,2-Dichloropropane	ug/m3	48.8	61.0	125	70-132	
1,3,5-Trimethylbenzene	ug/m3	53	60.0	113	70-136	
1,3-Butadiene	ug/m3	24.6	29.0	118	67-139	
1,3-Dichlorobenzene	ug/m3	60.3	82.8	137	70-138	
1,4-Dichlorobenzene	ug/m3	66	85.2	129	70-145	
2-Butanone (MEK)	ug/m3	30	33.7	112	61-130	
2-Hexanone	ug/m3	37.6	49.6	132	70-138	
2-Propanol	ug/m3	27.5	36.1	131	70-136	
4-Ethyltoluene	ug/m3	52.7	61.6	117	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

LABORATORY CONTROL SAMPLE: 3574680

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42.1	52.1	124	70-134	
Acetone	ug/m3	26.2	29.2	112	59-137	
Benzene	ug/m3	34.4	37.8	110	70-133	
Benzyl chloride	ug/m3	52.4	69.5	133	70-139	
Bromodichloromethane	ug/m3	69.1	79.7	115	70-130	
Bromoform	ug/m3	108	81.1	75	60-140	
Bromomethane	ug/m3	41	48.8	119	70-131	
Carbon disulfide	ug/m3	34.3	37.2	108	70-130	
Carbon tetrachloride	ug/m3	65.5	80.0	122	70-133	
Chlorobenzene	ug/m3	49.5	58.4	118	70-131	
Chloroethane	ug/m3	28	36.9	132	70-141	
Chloroform	ug/m3	50	57.6	115	70-130	
Chloromethane	ug/m3	22.1	25.7	116	64-137	
cis-1,2-Dichloroethene	ug/m3	41.8	49.5	118	70-132	
cis-1,3-Dichloropropene	ug/m3	46	61.1	133	70-138	
Cyclohexane	ug/m3	36.4	35.4	97	70-133	
Dibromochloromethane	ug/m3	88.7	91.9	104	70-139	
Dichlorodifluoromethane	ug/m3	54.9	58.1	106	70-130	
Dichlorotetrafluoroethane	ug/m3	77.9	84.7	109	65-133	
Ethanol	ug/m3	21.1	21.5	102	65-135	
Ethyl acetate	ug/m3	37.7	45.4	120	70-135	
Ethylbenzene	ug/m3	46.3	53.6	116	70-142	
Hexachloro-1,3-butadiene	ug/m3	116	135	116	70-134	
m&p-Xylene	ug/m3	46	53.1	115	70-141	
Methyl-tert-butyl ether	ug/m3	34.9	43.1	124	70-131	
Methylene Chloride	ug/m3	38.8	46.2	119	69-130	
n-Heptane	ug/m3	42.8	46.9	109	70-130	
n-Hexane	ug/m3	36.8	37.9	103	70-131	
Naphthalene	ug/m3	58.3	75.3	129	63-130	
o-Xylene	ug/m3	46.5	51.8	112	70-135	
Propylene	ug/m3	18.3	22.5	123	63-139	
Styrene	ug/m3	45.2	55.9	124	70-143	
Tetrachloroethene	ug/m3	74.9	83.6	112	70-136	
Tetrahydrofuran	ug/m3	29.8	39.5	133	70-137	
Toluene	ug/m3	40.4	45.7	113	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	47.0	112	70-132	
trans-1,3-Dichloropropene	ug/m3	43.4	58.4	135	70-139	
Trichloroethene	ug/m3	56.7	65.0	115	70-132	
Trichlorofluoromethane	ug/m3	59.6	67.9	114	65-136	
Vinyl acetate	ug/m3	32.5	39.0	120	66-140	
Vinyl chloride	ug/m3	28.5	33.1	116	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

SAMPLE DUPLICATE: 3575498

Parameter	Units	10511719001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.59		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.59		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.46		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.1		25	
1,1-Dichloroethane	ug/m3	ND	<0.43		25	
1,1-Dichloroethene	ug/m3	ND	<0.53		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<7.1		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.6J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.70		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.96		25	
1,2-Dichloroethane	ug/m3	ND	<0.29		25	
1,2-Dichloropropane	ug/m3	ND	<0.44		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.77		25	
1,3-Butadiene	ug/m3	ND	<0.25		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	10.8	11.1	3	25	
2-Butanone (MEK)	ug/m3	ND	2.2J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	47.7	46.8	2	25	
4-Ethyltoluene	ug/m3	ND	<1.1		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.99		25	
Acetone	ug/m3	42.5	40.9	4	25	
Benzene	ug/m3	2.0	1.8	10	25	
Benzyl chloride	ug/m3	ND	<2.3		25	
Bromodichloromethane	ug/m3	ND	<0.70		25	
Bromoform	ug/m3	ND	<2.7		25	
Bromomethane	ug/m3	ND	<0.44		25	
Carbon disulfide	ug/m3	ND	<0.42		25	
Carbon tetrachloride	ug/m3	ND	<0.82		25	
Chlorobenzene	ug/m3	ND	<0.53		25	
Chloroethane	ug/m3	ND	<0.50		25	
Chloroform	ug/m3	ND	<0.38		25	
Chloromethane	ug/m3	1.1	<0.30		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.58		25	
Cyclohexane	ug/m3	6.0	6.2	4	25	
Dibromochloromethane	ug/m3	ND	<1.4		25	
Dichlorodifluoromethane	ug/m3	5.6	5.1	9	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.84		25	
Ethanol	ug/m3	1010	1020	1	25	E
Ethyl acetate	ug/m3	ND	<0.36		25	
Ethylbenzene	ug/m3	ND	0.78J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.8		25	
m&p-Xylene	ug/m3	ND	2.9J		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.3		25	
Methylene Chloride	ug/m3	ND	4.4J		25	
n-Heptane	ug/m3	ND	0.88J		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

SAMPLE DUPLICATE: 3575498

Parameter	Units	10511719001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.1	2.0	2	25	
Naphthalene	ug/m3	ND	<2.5		25	
o-Xylene	ug/m3	ND	1.1J		25	
Propylene	ug/m3	ND	<0.27		25	
Styrene	ug/m3	ND	<0.66		25	
Tetrachloroethene	ug/m3	ND	<0.60		25	
Tetrahydrofuran	ug/m3	ND	<0.50		25	
Toluene	ug/m3	5.4	5.4	0	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.55		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.84		25	
Trichloroethene	ug/m3	ND	<0.49		25	
Trichlorofluoromethane	ug/m3	3.8	3.7	4	25	
Vinyl acetate	ug/m3	ND	<0.52		25	
Vinyl chloride	ug/m3	ND	<0.24		25	

SAMPLE DUPLICATE: 3575501

Parameter	Units	10511719002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.57		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.57		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.0		25	
1,1-Dichloroethane	ug/m3	ND	<0.41		25	
1,1-Dichloroethene	ug/m3	ND	<0.50		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.8		25	
1,2,4-Trimethylbenzene	ug/m3	2.0	2.2	9	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.67		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.91		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.73		25	
1,3-Butadiene	ug/m3	ND	<0.23		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.8		25	
2-Butanone (MEK)	ug/m3	ND	1.3J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	558	576	3	25	
4-Ethyltoluene	ug/m3	ND	<1.0		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.95		25	
Acetone	ug/m3	ND	102		25	
Benzene	ug/m3	3.3	3.2	2	25	
Benzyl chloride	ug/m3	ND	<2.2		25	
Bromodichloromethane	ug/m3	ND	<0.67		25	
Bromoform	ug/m3	ND	<2.6		25	
Bromomethane	ug/m3	ND	<0.42		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

SAMPLE DUPLICATE: 3575501

Parameter	Units	10511719002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.40		25	
Carbon tetrachloride	ug/m3	ND	<0.79		25	
Chlorobenzene	ug/m3	ND	<0.50		25	
Chloroethane	ug/m3	ND	<0.48		25	
Chloroform	ug/m3	1.1	1.2	9	25	
Chloromethane	ug/m3	ND	1.6		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.56		25	
Cyclohexane	ug/m3	ND	<0.65		25	
Dibromochloromethane	ug/m3	ND	<1.3		25	
Dichlorodifluoromethane	ug/m3	8.2	8.0	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.80		25	
Ethanol	ug/m3	2050	2050	0	25	E
Ethyl acetate	ug/m3	ND	<0.35		25	
Ethylbenzene	ug/m3	ND	1.3J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.6		25	
m&p-Xylene	ug/m3	4.7	4.8	1	25	
Methyl-tert-butyl ether	ug/m3	ND	<1.2		25	
Methylene Chloride	ug/m3	ND	4.8J		25	
n-Heptane	ug/m3	1.7	1.8	8	25	
n-Hexane	ug/m3	2.4	2.6	11	25	
Naphthalene	ug/m3	ND	<2.4		25	
o-Xylene	ug/m3	1.7	1.7	0	25	
Propylene	ug/m3	ND	<0.26		25	
Styrene	ug/m3	ND	<0.63		25	
Tetrachloroethene	ug/m3	ND	<0.57		25	
Tetrahydrofuran	ug/m3	ND	<0.48		25	
Toluene	ug/m3	7.7	7.7	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	1.0J		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.81		25	
Trichloroethene	ug/m3	ND	<0.46		25	
Trichlorofluoromethane	ug/m3	2.4	2.4	3	25	
Vinyl acetate	ug/m3	ND	<0.49		25	
Vinyl chloride	ug/m3	ND	<0.23		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10512033001	**SS-1**	TO-15	666658		
10512033002	**SS-9**	TO-15	666658		
10512033003	**SS-10**	TO-15	666658		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40433

Page: 1 of 1

Section A Required Client Information:

Company: KEY
Address: 735 N Water
Milwaukee, WI
Email To: tschoen@keyengineering.com
Phone: 414.224.8300 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Toni Schoen
Copy To:
Purchase Order No.:
Project Name: Schaefer Brush
Project Number: 1604-1704-0002

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level: II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	SS-1			3/16	946	3/16	1016	30	7	3335	961					X					001
2	SS-9			↓	944	↓	1014	30	7	2843	2484					X					002
3	SS-10			↓	940	↓	1010	27	5	3340	1235					X					003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10512033

10512033

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Keaton Crowe	3/16	1700	Will K Pace	3-17-20	8:50
					1500 CEG
					3/17/20

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
-	Y/N (Y)	Y/N (Y)	Y/N (Y)
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Crowe

SIGNATURE of SAMPLER: Keaton Crowe DATE Signed (MM/DD/YY): 3/16/20

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** KEY **Project #:** **WO#: 10512033**

PM: KNH **Due Date: 03/31/20**

CLIENT: Key Eng.

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☐

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☐ No

Temp. (TO17 and TO13 samples only) (°C): _____ **Corrected Temp (°C):** _____ **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** _____ **Date & Initials of Person Examining Contents:** MKL 3-17-20

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y N (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ No	13.

Gauge # ☐ 10AIR26 ☒ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
SS-1	3335	0961	-6	+5					
SS-9	2843	2484	-6	+5					
SS-10	3340	1235	-7	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 3/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank

Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature

1063 0285 8767	
" " 8773	
" " 8745	
" " 8756	

Other Issues

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 27, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10512034001	**IAO-1**	Air	03/16/20 15:55	03/17/20 15:00
10512034002	**IAB-1**	Air	03/16/20 15:35	03/17/20 15:00
10512034003	**IAO-2**	Air	03/16/20 15:33	03/17/20 15:00

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10512034001	**IAO-1**	TO-15	MLS	61	PASI-M
10512034002	**IAB-1**	TO-15	MLS	61	PASI-M
10512034003	**IAO-2**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512034001	**IAO-1**					
TO-15	Acetone	52.7	ug/m3	4.2	03/26/20 18:09	
TO-15	Benzene	1.3	ug/m3	0.57	03/26/20 18:09	
TO-15	2-Butanone (MEK)	5.8	ug/m3	5.2	03/26/20 18:09	
TO-15	Chloromethane	1.3	ug/m3	0.74	03/26/20 18:09	
TO-15	1,4-Dichlorobenzene	81.4	ug/m3	5.4	03/26/20 18:09	
TO-15	Dichlorodifluoromethane	4.4	ug/m3	1.8	03/26/20 18:09	
TO-15	trans-1,2-Dichloroethene	1.1J	ug/m3	1.4	03/26/20 18:09	
TO-15	Ethanol	1100	ug/m3	3.4	03/26/20 18:09	E
TO-15	Ethylbenzene	1.2J	ug/m3	1.5	03/26/20 18:09	
TO-15	n-Heptane	0.95J	ug/m3	1.5	03/26/20 18:09	
TO-15	n-Hexane	1.6	ug/m3	1.3	03/26/20 18:09	
TO-15	Methylene Chloride	113	ug/m3	6.2	03/26/20 18:09	
TO-15	Naphthalene	2.8J	ug/m3	4.7	03/26/20 18:09	
TO-15	2-Propanol	60.2	ug/m3	4.4	03/26/20 18:09	
TO-15	Styrene	1.6	ug/m3	1.5	03/26/20 18:09	
TO-15	Tetrachloroethene	7.2	ug/m3	1.2	03/26/20 18:09	
TO-15	Tetrahydrofuran	1.4	ug/m3	1.0	03/26/20 18:09	
TO-15	Toluene	84.8	ug/m3	1.3	03/26/20 18:09	
TO-15	Trichloroethene	1.8	ug/m3	0.96	03/26/20 18:09	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	2.0	03/26/20 18:09	
TO-15	1,2,4-Trimethylbenzene	1.6J	ug/m3	1.7	03/26/20 18:09	
TO-15	m&p-Xylene	3.4	ug/m3	3.1	03/26/20 18:09	
TO-15	o-Xylene	1.1J	ug/m3	1.5	03/26/20 18:09	
10512034002	**IAB-1**					
TO-15	Acetone	64.8	ug/m3	4.4	03/26/20 18:39	
TO-15	Benzene	1.2	ug/m3	0.59	03/26/20 18:39	
TO-15	2-Butanone (MEK)	8.4	ug/m3	5.5	03/26/20 18:39	
TO-15	1,4-Dichlorobenzene	98.1	ug/m3	5.6	03/26/20 18:39	
TO-15	Dichlorodifluoromethane	5.4	ug/m3	1.8	03/26/20 18:39	
TO-15	Ethanol	447	ug/m3	3.5	03/26/20 18:39	
TO-15	Ethylbenzene	1.2J	ug/m3	1.6	03/26/20 18:39	
TO-15	n-Heptane	0.90J	ug/m3	1.5	03/26/20 18:39	
TO-15	n-Hexane	1.5	ug/m3	1.3	03/26/20 18:39	
TO-15	Methylene Chloride	27.7	ug/m3	6.5	03/26/20 18:39	
TO-15	2-Propanol	24.5	ug/m3	4.6	03/26/20 18:39	
TO-15	Styrene	1.6	ug/m3	1.6	03/26/20 18:39	
TO-15	Tetrachloroethene	17.3	ug/m3	1.3	03/26/20 18:39	
TO-15	Tetrahydrofuran	2.3	ug/m3	1.1	03/26/20 18:39	
TO-15	Toluene	84.5	ug/m3	1.4	03/26/20 18:39	
TO-15	Trichloroethene	2.0	ug/m3	1.0	03/26/20 18:39	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	2.1	03/26/20 18:39	
TO-15	1,2,4-Trimethylbenzene	1.8J	ug/m3	1.8	03/26/20 18:39	
TO-15	m&p-Xylene	3.3	ug/m3	3.2	03/26/20 18:39	
TO-15	o-Xylene	1.0J	ug/m3	1.6	03/26/20 18:39	
10512034003	**IAO-2**					
TO-15	Acetone	57.5	ug/m3	4.4	03/26/20 19:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512034003	**IAO-2**					
TO-15	Benzene	1.2	ug/m3	0.59	03/26/20 19:08	
TO-15	2-Butanone (MEK)	6.8	ug/m3	5.5	03/26/20 19:08	
TO-15	Chloromethane	1.3	ug/m3	0.77	03/26/20 19:08	
TO-15	Cyclohexane	1.1J	ug/m3	3.2	03/26/20 19:08	
TO-15	1,4-Dichlorobenzene	90.6	ug/m3	5.6	03/26/20 19:08	
TO-15	Dichlorodifluoromethane	4.4	ug/m3	1.8	03/26/20 19:08	
TO-15	Ethanol	1640	ug/m3	3.5	03/26/20 19:08	E
TO-15	Ethyl acetate	1.7	ug/m3	1.3	03/26/20 19:08	
TO-15	Ethylbenzene	0.98J	ug/m3	1.6	03/26/20 19:08	
TO-15	n-Hexane	1.0J	ug/m3	1.3	03/26/20 19:08	
TO-15	Methylene Chloride	17.5	ug/m3	6.5	03/26/20 19:08	
TO-15	Naphthalene	2.9J	ug/m3	4.9	03/26/20 19:08	
TO-15	2-Propanol	62.0	ug/m3	4.6	03/26/20 19:08	
TO-15	Styrene	1.4J	ug/m3	1.6	03/26/20 19:08	
TO-15	Tetrachloroethene	5.8	ug/m3	1.3	03/26/20 19:08	
TO-15	Tetrahydrofuran	1.1	ug/m3	1.1	03/26/20 19:08	
TO-15	Toluene	63.1	ug/m3	1.4	03/26/20 19:08	
TO-15	Trichloroethene	1.3	ug/m3	1.0	03/26/20 19:08	
TO-15	Trichlorofluoromethane	1.8J	ug/m3	2.1	03/26/20 19:08	
TO-15	1,2,4-Trimethylbenzene	1.4J	ug/m3	1.8	03/26/20 19:08	
TO-15	m&p-Xylene	3.5	ug/m3	3.2	03/26/20 19:08	
TO-15	o-Xylene	1.3J	ug/m3	1.6	03/26/20 19:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Sample: IAO-1 **Lab ID: 10512034001** Collected: 03/16/20 15:55 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.7**	ug/m3	4.2	2.1	1.75		03/26/20 18:09	67-64-1	
Benzene	**1.3**	ug/m3	0.57	0.27	1.75		03/26/20 18:09	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		03/26/20 18:09	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		03/26/20 18:09	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		03/26/20 18:09	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		03/26/20 18:09	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		03/26/20 18:09	106-99-0	
2-Butanone (MEK)	**5.8**	ug/m3	5.2	0.65	1.75		03/26/20 18:09	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		03/26/20 18:09	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		03/26/20 18:09	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		03/26/20 18:09	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		03/26/20 18:09	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		03/26/20 18:09	67-66-3	
Chloromethane	**1.3**	ug/m3	0.74	0.27	1.75		03/26/20 18:09	74-87-3	
Cyclohexane	**<0.62**	ug/m3	3.1	0.62	1.75		03/26/20 18:09	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		03/26/20 18:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		03/26/20 18:09	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/26/20 18:09	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		03/26/20 18:09	541-73-1	
1,4-Dichlorobenzene	**81.4**	ug/m3	5.4	1.8	1.75		03/26/20 18:09	106-46-7	
Dichlorodifluoromethane	**4.4**	ug/m3	1.8	0.51	1.75		03/26/20 18:09	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		03/26/20 18:09	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		03/26/20 18:09	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		03/26/20 18:09	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		03/26/20 18:09	156-59-2	
trans-1,2-Dichloroethene	**1.1J**	ug/m3	1.4	0.50	1.75		03/26/20 18:09	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		03/26/20 18:09	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		03/26/20 18:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		03/26/20 18:09	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		03/26/20 18:09	76-14-2	
Ethanol	**1100**	ug/m3	3.4	1.4	1.75		03/26/20 18:09	64-17-5	E
Ethyl acetate	**<0.33**	ug/m3	1.3	0.33	1.75		03/26/20 18:09	141-78-6	
Ethylbenzene	**1.2J**	ug/m3	1.5	0.53	1.75		03/26/20 18:09	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		03/26/20 18:09	622-96-8	
n-Heptane	**0.95J**	ug/m3	1.5	0.66	1.75		03/26/20 18:09	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		03/26/20 18:09	87-68-3	
n-Hexane	**1.6**	ug/m3	1.3	0.54	1.75		03/26/20 18:09	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		03/26/20 18:09	591-78-6	
Methylene Chloride	**113**	ug/m3	6.2	2.1	1.75		03/26/20 18:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		03/26/20 18:09	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		03/26/20 18:09	1634-04-4	
Naphthalene	**2.8J**	ug/m3	4.7	2.3	1.75		03/26/20 18:09	91-20-3	
2-Propanol	**60.2**	ug/m3	4.4	1.2	1.75		03/26/20 18:09	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		03/26/20 18:09	115-07-1	
Styrene	**1.6**	ug/m3	1.5	0.60	1.75		03/26/20 18:09	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		03/26/20 18:09	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Sample: IAO-1 **Lab ID: 10512034001** Collected: 03/16/20 15:55 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**7.2**	ug/m3	1.2	0.55	1.75		03/26/20 18:09	127-18-4	
Tetrahydrofuran	**1.4**	ug/m3	1.0	0.46	1.75		03/26/20 18:09	109-99-9	
Toluene	**84.8**	ug/m3	1.3	0.61	1.75		03/26/20 18:09	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		03/26/20 18:09	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		03/26/20 18:09	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		03/26/20 18:09	79-00-5	
Trichloroethene	**1.8**	ug/m3	0.96	0.44	1.75		03/26/20 18:09	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.64	1.75		03/26/20 18:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		03/26/20 18:09	76-13-1	
1,2,4-Trimethylbenzene	**1.6J**	ug/m3	1.7	0.79	1.75		03/26/20 18:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.70**	ug/m3	1.7	0.70	1.75		03/26/20 18:09	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		03/26/20 18:09	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		03/26/20 18:09	75-01-4	
m&p-Xylene	**3.4**	ug/m3	3.1	1.2	1.75		03/26/20 18:09	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.5	0.60	1.75		03/26/20 18:09	95-47-6	

Sample: IAB-1 **Lab ID: 10512034002** Collected: 03/16/20 15:35 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**64.8**	ug/m3	4.4	2.2	1.83		03/26/20 18:39	67-64-1	
Benzene	**1.2**	ug/m3	0.59	0.28	1.83		03/26/20 18:39	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		03/26/20 18:39	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		03/26/20 18:39	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		03/26/20 18:39	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		03/26/20 18:39	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		03/26/20 18:39	106-99-0	
2-Butanone (MEK)	**8.4**	ug/m3	5.5	0.68	1.83		03/26/20 18:39	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		03/26/20 18:39	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		03/26/20 18:39	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		03/26/20 18:39	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		03/26/20 18:39	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		03/26/20 18:39	67-66-3	
Chloromethane	**<0.29**	ug/m3	0.77	0.29	1.83		03/26/20 18:39	74-87-3	
Cyclohexane	**<0.65**	ug/m3	3.2	0.65	1.83		03/26/20 18:39	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		03/26/20 18:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		03/26/20 18:39	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/26/20 18:39	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.2	1.1	1.83		03/26/20 18:39	541-73-1	
1,4-Dichlorobenzene	**98.1**	ug/m3	5.6	1.8	1.83		03/26/20 18:39	106-46-7	
Dichlorodifluoromethane	**5.4**	ug/m3	1.8	0.54	1.83		03/26/20 18:39	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		03/26/20 18:39	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		03/26/20 18:39	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Sample: IAB-1 **Lab ID: 10512034002** Collected: 03/16/20 15:35 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		03/26/20 18:39	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		03/26/20 18:39	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		03/26/20 18:39	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		03/26/20 18:39	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		03/26/20 18:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	1.7	0.81	1.83		03/26/20 18:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		03/26/20 18:39	76-14-2	
Ethanol	**447**	ug/m3	3.5	1.5	1.83		03/26/20 18:39	64-17-5	
Ethyl acetate	**<0.35**	ug/m3	1.3	0.35	1.83		03/26/20 18:39	141-78-6	
Ethylbenzene	**1.2J**	ug/m3	1.6	0.56	1.83		03/26/20 18:39	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.6	1.0	1.83		03/26/20 18:39	622-96-8	
n-Heptane	**0.90J**	ug/m3	1.5	0.70	1.83		03/26/20 18:39	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		03/26/20 18:39	87-68-3	
n-Hexane	**1.5**	ug/m3	1.3	0.57	1.83		03/26/20 18:39	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		03/26/20 18:39	591-78-6	
Methylene Chloride	**27.7**	ug/m3	6.5	2.2	1.83		03/26/20 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		03/26/20 18:39	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		03/26/20 18:39	1634-04-4	
Naphthalene	**<2.4**	ug/m3	4.9	2.4	1.83		03/26/20 18:39	91-20-3	
2-Propanol	**24.5**	ug/m3	4.6	1.3	1.83		03/26/20 18:39	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		03/26/20 18:39	115-07-1	
Styrene	**1.6**	ug/m3	1.6	0.63	1.83		03/26/20 18:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		03/26/20 18:39	79-34-5	
Tetrachloroethene	**17.3**	ug/m3	1.3	0.57	1.83		03/26/20 18:39	127-18-4	
Tetrahydrofuran	**2.3**	ug/m3	1.1	0.48	1.83		03/26/20 18:39	109-99-9	
Toluene	**84.5**	ug/m3	1.4	0.64	1.83		03/26/20 18:39	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		03/26/20 18:39	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		03/26/20 18:39	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		03/26/20 18:39	79-00-5	
Trichloroethene	**2.0**	ug/m3	1.0	0.46	1.83		03/26/20 18:39	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.1	0.67	1.83		03/26/20 18:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		03/26/20 18:39	76-13-1	
1,2,4-Trimethylbenzene	**1.8J**	ug/m3	1.8	0.83	1.83		03/26/20 18:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.73**	ug/m3	1.8	0.73	1.83		03/26/20 18:39	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		03/26/20 18:39	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		03/26/20 18:39	75-01-4	
m&p-Xylene	**3.3**	ug/m3	3.2	1.3	1.83		03/26/20 18:39	179601-23-1	
o-Xylene	**1.0J**	ug/m3	1.6	0.63	1.83		03/26/20 18:39	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Sample: IAO-2 **Lab ID: 10512034003** Collected: 03/16/20 15:33 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**57.5**	ug/m3	4.4	2.2	1.83		03/26/20 19:08	67-64-1	
Benzene	**1.2**	ug/m3	0.59	0.28	1.83		03/26/20 19:08	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		03/26/20 19:08	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		03/26/20 19:08	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		03/26/20 19:08	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		03/26/20 19:08	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		03/26/20 19:08	106-99-0	
2-Butanone (MEK)	**6.8**	ug/m3	5.5	0.68	1.83		03/26/20 19:08	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		03/26/20 19:08	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		03/26/20 19:08	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		03/26/20 19:08	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		03/26/20 19:08	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		03/26/20 19:08	67-66-3	
Chloromethane	**1.3**	ug/m3	0.77	0.29	1.83		03/26/20 19:08	74-87-3	
Cyclohexane	**1.1J**	ug/m3	3.2	0.65	1.83		03/26/20 19:08	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		03/26/20 19:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		03/26/20 19:08	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/26/20 19:08	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.2	1.1	1.83		03/26/20 19:08	541-73-1	
1,4-Dichlorobenzene	**90.6**	ug/m3	5.6	1.8	1.83		03/26/20 19:08	106-46-7	
Dichlorodifluoromethane	**4.4**	ug/m3	1.8	0.54	1.83		03/26/20 19:08	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		03/26/20 19:08	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		03/26/20 19:08	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		03/26/20 19:08	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		03/26/20 19:08	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		03/26/20 19:08	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		03/26/20 19:08	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		03/26/20 19:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	1.7	0.81	1.83		03/26/20 19:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		03/26/20 19:08	76-14-2	
Ethanol	**1640**	ug/m3	3.5	1.5	1.83		03/26/20 19:08	64-17-5	E
Ethyl acetate	**1.7**	ug/m3	1.3	0.35	1.83		03/26/20 19:08	141-78-6	
Ethylbenzene	**0.98J**	ug/m3	1.6	0.56	1.83		03/26/20 19:08	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.6	1.0	1.83		03/26/20 19:08	622-96-8	
n-Heptane	**<0.70**	ug/m3	1.5	0.70	1.83		03/26/20 19:08	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		03/26/20 19:08	87-68-3	
n-Hexane	**1.0J**	ug/m3	1.3	0.57	1.83		03/26/20 19:08	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		03/26/20 19:08	591-78-6	
Methylene Chloride	**17.5**	ug/m3	6.5	2.2	1.83		03/26/20 19:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		03/26/20 19:08	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		03/26/20 19:08	1634-04-4	
Naphthalene	**2.9J**	ug/m3	4.9	2.4	1.83		03/26/20 19:08	91-20-3	
2-Propanol	**62.0**	ug/m3	4.6	1.3	1.83		03/26/20 19:08	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		03/26/20 19:08	115-07-1	
Styrene	**1.4J**	ug/m3	1.6	0.63	1.83		03/26/20 19:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		03/26/20 19:08	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Sample: IAO-2 **Lab ID: 10512034003** Collected: 03/16/20 15:33 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**5.8**	ug/m3	1.3	0.57	1.83		03/26/20 19:08	127-18-4	
Tetrahydrofuran	**1.1**	ug/m3	1.1	0.48	1.83		03/26/20 19:08	109-99-9	
Toluene	**63.1**	ug/m3	1.4	0.64	1.83		03/26/20 19:08	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		03/26/20 19:08	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		03/26/20 19:08	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		03/26/20 19:08	79-00-5	
Trichloroethene	**1.3**	ug/m3	1.0	0.46	1.83		03/26/20 19:08	79-01-6	
Trichlorofluoromethane	**1.8J**	ug/m3	2.1	0.67	1.83		03/26/20 19:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		03/26/20 19:08	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.8	0.83	1.83		03/26/20 19:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.73**	ug/m3	1.8	0.73	1.83		03/26/20 19:08	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		03/26/20 19:08	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		03/26/20 19:08	75-01-4	
m&p-Xylene	**3.5**	ug/m3	3.2	1.3	1.83		03/26/20 19:08	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.6	0.63	1.83		03/26/20 19:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

QC Batch: 666850 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10512034001, 10512034002, 10512034003

METHOD BLANK: 3575646 Matrix: Air
Associated Lab Samples: 10512034001, 10512034002, 10512034003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/26/20 10:40	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	03/26/20 10:40	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	03/26/20 10:40	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/26/20 10:40	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/26/20 10:40	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/26/20 10:40	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/26/20 10:40	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/26/20 10:40	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/26/20 10:40	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/26/20 10:40	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/26/20 10:40	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/26/20 10:40	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/26/20 10:40	
1,3-Butadiene	ug/m3	<0.13	0.45	03/26/20 10:40	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/26/20 10:40	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/26/20 10:40	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/26/20 10:40	
2-Hexanone	ug/m3	<0.74	4.2	03/26/20 10:40	
2-Propanol	ug/m3	<0.70	2.5	03/26/20 10:40	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/26/20 10:40	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/26/20 10:40	
Acetone	ug/m3	<1.2	2.4	03/26/20 10:40	
Benzene	ug/m3	<0.15	0.32	03/26/20 10:40	
Benzyl chloride	ug/m3	<1.2	2.6	03/26/20 10:40	
Bromodichloromethane	ug/m3	<0.37	1.4	03/26/20 10:40	
Bromoform	ug/m3	<1.4	5.2	03/26/20 10:40	
Bromomethane	ug/m3	<0.23	0.79	03/26/20 10:40	
Carbon disulfide	ug/m3	<0.22	0.63	03/26/20 10:40	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/26/20 10:40	
Chlorobenzene	ug/m3	<0.28	0.94	03/26/20 10:40	
Chloroethane	ug/m3	<0.26	0.54	03/26/20 10:40	
Chloroform	ug/m3	<0.20	0.50	03/26/20 10:40	
Chloromethane	ug/m3	<0.16	0.42	03/26/20 10:40	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/26/20 10:40	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/26/20 10:40	
Cyclohexane	ug/m3	<0.35	1.8	03/26/20 10:40	
Dibromochloromethane	ug/m3	<0.72	1.7	03/26/20 10:40	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/26/20 10:40	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/26/20 10:40	
Ethanol	ug/m3	<0.81	1.9	03/26/20 10:40	
Ethyl acetate	ug/m3	<0.19	0.73	03/26/20 10:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

METHOD BLANK: 3575646 Matrix: Air
Associated Lab Samples: 10512034001, 10512034002, 10512034003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/26/20 10:40	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/26/20 10:40	
m&p-Xylene	ug/m3	<0.70	1.8	03/26/20 10:40	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/26/20 10:40	
Methylene Chloride	ug/m3	<1.2	3.5	03/26/20 10:40	
n-Heptane	ug/m3	<0.38	0.83	03/26/20 10:40	
n-Hexane	ug/m3	<0.31	0.72	03/26/20 10:40	
Naphthalene	ug/m3	<1.3	2.7	03/26/20 10:40	
o-Xylene	ug/m3	<0.34	0.88	03/26/20 10:40	
Propylene	ug/m3	<0.14	0.35	03/26/20 10:40	
Styrene	ug/m3	<0.34	0.87	03/26/20 10:40	
Tetrachloroethene	ug/m3	<0.31	0.69	03/26/20 10:40	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/26/20 10:40	
Toluene	ug/m3	<0.35	0.77	03/26/20 10:40	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/26/20 10:40	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/26/20 10:40	
Trichloroethene	ug/m3	<0.25	0.55	03/26/20 10:40	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/26/20 10:40	
Vinyl acetate	ug/m3	<0.27	0.72	03/26/20 10:40	
Vinyl chloride	ug/m3	<0.13	0.26	03/26/20 10:40	

LABORATORY CONTROL SAMPLE: 3575647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	58.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	76.5	106	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	59.9	104	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	80.7	100	70-130	
1,1-Dichloroethane	ug/m3	42.7	41.5	97	70-130	
1,1-Dichloroethene	ug/m3	41.4	40.6	98	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	145	93	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	62.2	121	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	88.9	111	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	63.8	101	70-136	
1,2-Dichloroethane	ug/m3	42.4	43.5	103	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.6	100	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	59.6	115	70-136	
1,3-Butadiene	ug/m3	23.3	22.4	96	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	63.8	101	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	63.1	99	70-145	
2-Butanone (MEK)	ug/m3	31.4	29.4	94	61-130	
2-Hexanone	ug/m3	42.8	42.4	99	70-138	
2-Propanol	ug/m3	119	124	104	70-136	
4-Ethyltoluene	ug/m3	52.4	64.0	122	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

LABORATORY CONTROL SAMPLE: 3575647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.5	100	70-134	
Acetone	ug/m3	126	112	88	59-137	
Benzene	ug/m3	33.5	32.5	97	70-133	
Benzyl chloride	ug/m3	55.1	55.7	101	70-139	
Bromodichloromethane	ug/m3	71.5	73.5	103	70-130	
Bromoform	ug/m3	110	99.1	90	60-140	
Bromomethane	ug/m3	41.3	36.2	88	70-131	
Carbon disulfide	ug/m3	33.3	32.7	98	70-130	
Carbon tetrachloride	ug/m3	66.2	69.0	104	70-133	
Chlorobenzene	ug/m3	48.3	50.1	104	70-131	
Chloroethane	ug/m3	28.1	26.3	93	70-141	
Chloroform	ug/m3	51.1	48.2	94	70-130	
Chloromethane	ug/m3	21.9	21.6	99	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	44.2	106	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	53.1	111	70-138	
Cyclohexane	ug/m3	36.7	39.5	108	70-133	
Dibromochloromethane	ug/m3	90.7	91.3	101	70-139	
Dichlorodifluoromethane	ug/m3	51.6	50.2	97	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	72.8	100	65-133	
Ethanol	ug/m3	103	102	100	65-135	
Ethyl acetate	ug/m3	38.6	39.0	101	70-135	
Ethylbenzene	ug/m3	45.6	51.9	114	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	113	101	70-134	
m&p-Xylene	ug/m3	91.2	108	119	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	40.0	104	70-131	
Methylene Chloride	ug/m3	182	176	96	69-130	
n-Heptane	ug/m3	43.6	45.0	103	70-130	
n-Hexane	ug/m3	37.6	37.3	99	70-131	
Naphthalene	ug/m3	57.7	51.3	89	63-130	
o-Xylene	ug/m3	45.5	52.8	116	70-135	
Propylene	ug/m3	18.2	17.3	95	63-139	
Styrene	ug/m3	44.9	53.3	119	70-143	
Tetrachloroethene	ug/m3	71	74.6	105	70-136	
Tetrahydrofuran	ug/m3	31.5	32.7	104	70-137	
Toluene	ug/m3	39.5	42.5	108	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.4	101	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	53.0	111	70-139	
Trichloroethene	ug/m3	56.3	58.4	104	70-132	
Trichlorofluoromethane	ug/m3	59.7	60.1	101	65-136	
Vinyl acetate	ug/m3	34.5	38.7	112	66-140	
Vinyl chloride	ug/m3	26.7	26.6	99	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

SAMPLE DUPLICATE: 3576390

Parameter	Units	10511617001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.83		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.83		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.65		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.5		25	
1,1-Dichloroethane	ug/m3	ND	<0.61		25	
1,1-Dichloroethene	ug/m3	ND	<0.74		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<10.0		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<1.2		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.98		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.3		25	
1,2-Dichloroethane	ug/m3	ND	<0.40		25	
1,2-Dichloropropane	ug/m3	ND	<0.62		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<1.1		25	
1,3-Butadiene	ug/m3	ND	<0.34		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.6		25	
1,4-Dichlorobenzene	ug/m3	ND	<2.7		25	
2-Butanone (MEK)	ug/m3	ND	<0.99		25	
2-Hexanone	ug/m3	ND	<2.0		25	
2-Propanol	ug/m3	ND	<1.9		25	
4-Ethyltoluene	ug/m3	ND	<1.5		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<1.4		25	
Acetone	ug/m3	12.1	11.9	1	25	
Benzene	ug/m3	1.6	1.7	6	25	
Benzyl chloride	ug/m3	ND	<3.2		25	
Bromodichloromethane	ug/m3	ND	<0.98		25	
Bromoform	ug/m3	ND	<3.8		25	
Bromomethane	ug/m3	ND	<0.61		25	
Carbon disulfide	ug/m3	ND	<0.59		25	
Carbon tetrachloride	ug/m3	ND	<1.2		25	
Chlorobenzene	ug/m3	ND	<0.74		25	
Chloroethane	ug/m3	ND	<0.70		25	
Chloroform	ug/m3	ND	<0.53		25	
Chloromethane	ug/m3	1.2	1.2	1	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.59		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.82		25	
Cyclohexane	ug/m3	ND	<0.95		25	
Dibromochloromethane	ug/m3	ND	<1.9		25	
Dichlorodifluoromethane	ug/m3	ND	2.6J		25	
Dichlorotetrafluoroethane	ug/m3	ND	<1.2		25	
Ethanol	ug/m3	9.5	9.0	6	25	
Ethyl acetate	ug/m3	ND	<0.51		25	
Ethylbenzene	ug/m3	ND	<0.82		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<5.3		25	
m&p-Xylene	ug/m3	ND	<1.9		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.8		25	
Methylene Chloride	ug/m3	ND	4.4J		25	
n-Heptane	ug/m3	ND	<1.0		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

SAMPLE DUPLICATE: 3576390

Parameter	Units	10511617001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	<0.84		25	
Naphthalene	ug/m3	ND	<3.5		25	
o-Xylene	ug/m3	ND	<0.93		25	
Propylene	ug/m3	ND	<0.38		25	
Styrene	ug/m3	ND	<0.93		25	
Tetrachloroethene	ug/m3	ND	<0.84		25	
Tetrahydrofuran	ug/m3	ND	<0.70		25	
Toluene	ug/m3	ND	<0.94		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.77		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.2		25	
Trichloroethene	ug/m3	ND	<0.68		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.73		25	
Vinyl chloride	ug/m3	ND	<0.34		25	

SAMPLE DUPLICATE: 3576391

Parameter	Units	10511617003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.81		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.65		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.53		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.57		25	
1,3-Butadiene	ug/m3	ND	<0.18		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.84		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.4		25	
2-Butanone (MEK)	ug/m3	ND	<0.53		25	
2-Hexanone	ug/m3	ND	<1.1		25	
2-Propanol	ug/m3	ND	<1.0		25	
4-Ethyltoluene	ug/m3	ND	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.75		25	
Acetone	ug/m3	6.6	6.3	5	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	ND	<1.7		25	
Bromodichloromethane	ug/m3	ND	<0.53		25	
Bromoform	ug/m3	ND	<2.0		25	
Bromomethane	ug/m3	ND	<0.33		25	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

SAMPLE DUPLICATE: 3576391

Parameter	Units	10511617003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.32		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chlorobenzene	ug/m3	ND	<0.40		25	
Chloroethane	ug/m3	ND	<0.37		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	1.2	1.1	9	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Cyclohexane	ug/m3	ND	<0.51		25	
Dibromochloromethane	ug/m3	ND	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.63		25	
Ethanol	ug/m3	5.1	4.1	21	25	
Ethyl acetate	ug/m3	ND	<0.27		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.8		25	
m&p-Xylene	ug/m3	ND	<1.0		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.95		25	
Methylene Chloride	ug/m3	ND	2.7J		25	
n-Heptane	ug/m3	ND	<0.55		25	
n-Hexane	ug/m3	ND	0.78J		25	
Naphthalene	ug/m3	ND	<1.9		25	
o-Xylene	ug/m3	ND	<0.50		25	
Propylene	ug/m3	ND	<0.20		25	
Styrene	ug/m3	ND	<0.50		25	
Tetrachloroethene	ug/m3	ND	<0.45		25	
Tetrahydrofuran	ug/m3	ND	<0.38		25	
Toluene	ug/m3	ND	0.58J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.63		25	
Trichloroethene	ug/m3	ND	<0.36		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.39		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512034

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10512034001	**IAO-1**	TO-15	666850		
10512034002	**IAB-1**	TO-15	666850		
10512034003	**IAO-2**	TO-15	666850		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40435

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: KEY	Report To: Toni Schoen	Attention:
Address: 735 N Water Milwaukee, WI	Copy To:	Company Name:
Email To: tschoen@keyengineering.com	Purchase Order No.:	Address:
Phone: 414.224.8300 Fax:	Project Name: Schaefer Brush	Pace Quote Reference:
Requested Due Date/TAT:	Project Number: 1604-1204-6062	Pace Project Manager/Sales Rep.
		Pace Profile #: 34164

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: _____

Reporting Units: ug/m³ ___ mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level: II. ___ III. ___ IV. ___ Other ___

'Section D Required Client Information

AIR SAMPLE ID

Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IA0-1			3/16	818	3/16	1555	30	8	3405	1798					X					001
2	IA0-2			↓	815	↓	1535	29	6	3411	1072					X					002
3	IAB-1			↓	820	↓	1533	27	7	3363	1043					X					003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10512034

10512034

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	3/16	1700	UMA Pace	3/17/2020	1500

SAMPLE CONDITIONS

AMB	Y/N	Y/N	Y/N	Temp in °C
	Y/N	Y/N	Y/N	Received on Ice
	Y/N	Y/N	Y/N	Custody Sealed Cooler
	Y/N	Y/N	Y/N	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Crewe

SIGNATURE of SAMPLER: _____ DATE Signed (MM / DD / YY): 3/16/20

B 1

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** Key **Project #:** **WO#: 10512034**

PM: KNH **Due Date: 03/31/20**

CLIENT: Key Eng.

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial **See Exception** ☒

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: _____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): ✓ **Corrected Temp (°C):** ✓ **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** ✓ **Date & Initials of Person Examining Contents:** GN 2 3/17/2020

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☒ Yes ☐ No	1.
Chain of Custody Filled Out?	☒ Yes ☐ No	2.
Chain of Custody Relinquished?	☒ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☒ No	6.
Rush Turn Around Time Requested?	☐ Yes ☒ No	7.
Sufficient Volume?	☒ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒ Yes ☐ No ☒ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒ Yes ☐ No	12. Sample # 2 and 3 appear to be mismatched. Can ID and Flow Control are mismatch.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒ Yes ☐ No	13.

Gauge # ☐ 10AIR26 ☐ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IAO-1	3905	1798	-7	+5					
IAB-1	3411	1072	-8	+5					
IAO-2	3363	1043	-8	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kristen Hoffberg **Date:** 3/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: **SCUR Exception Form**	Document Revised: 06Feb2020 Page 1 of 1
	Document No.: **F-MN-C-298-Rev.03**	Pace Analytical Services - **Minneapolis**

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
1063 0285 8767	
" " 8778	
" " 8745	
" " 8756	

Other Issues		
Issue Type: **Sample ID**	**Container Type**	**# of Containers**

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 27, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Dear Toni Schoen:
Enclosed are the analytical results for sample(s) received by the laboratory on March 17, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10512035001	**IA-14**	Air	03/16/20 15:52	03/17/20 15:00
10512035002	**IA-5**	Air	03/16/20 15:23	03/17/20 15:00
10512035003	**IA-19**	Air	03/16/20 15:40	03/17/20 15:00
10512035004	**IA-20**	Air	03/16/20 15:25	03/17/20 15:00
10512035005	**IA-12**	Air	03/16/20 15:31	03/17/20 15:00
10512035006	**IA-21**	Air	03/16/20 15:53	03/17/20 15:00

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10512035001	**IA-14**	TO-15	MLS	61	PASI-M
10512035002	**IA-5**	TO-15	MLS	61	PASI-M
10512035003	**IA-19**	TO-15	MLS	61	PASI-M
10512035004	**IA-20**	TO-15	MLS	61	PASI-M
10512035005	**IA-12**	TO-15	MLS	61	PASI-M
10512035006	**IA-21**	TO-15	MLS	61	PASI-M

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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512035001	**IA-14**					
TO-15	Acetone	27.0	ug/m3	4.0	03/26/20 19:38	
TO-15	Benzene	1.6	ug/m3	0.55	03/26/20 19:38	
TO-15	2-Butanone (MEK)	8.1	ug/m3	5.0	03/26/20 19:38	
TO-15	Chloromethane	1.2	ug/m3	0.71	03/26/20 19:38	
TO-15	1,4-Dichlorobenzene	10.8	ug/m3	5.1	03/26/20 19:38	
TO-15	Dichlorodifluoromethane	2.9	ug/m3	1.7	03/26/20 19:38	
TO-15	Ethanol	723	ug/m3	3.2	03/26/20 19:38	E
TO-15	Ethylbenzene	1.2J	ug/m3	1.5	03/26/20 19:38	
TO-15	n-Heptane	1.4J	ug/m3	1.4	03/26/20 19:38	
TO-15	n-Hexane	1.9	ug/m3	1.2	03/26/20 19:38	
TO-15	Methylene Chloride	18.1	ug/m3	5.9	03/26/20 19:38	
TO-15	Naphthalene	2.7J	ug/m3	4.5	03/26/20 19:38	
TO-15	2-Propanol	16.6	ug/m3	4.2	03/26/20 19:38	
TO-15	Styrene	7.9	ug/m3	1.5	03/26/20 19:38	
TO-15	Tetrachloroethene	21.9	ug/m3	1.2	03/26/20 19:38	
TO-15	Tetrahydrofuran	1.8	ug/m3	1.0	03/26/20 19:38	
TO-15	Toluene	108	ug/m3	1.3	03/26/20 19:38	
TO-15	Trichloroethene	1.7	ug/m3	0.92	03/26/20 19:38	
TO-15	Trichlorofluoromethane	1.5J	ug/m3	1.9	03/26/20 19:38	
TO-15	1,2,4-Trimethylbenzene	1.5J	ug/m3	1.7	03/26/20 19:38	
TO-15	m&p-Xylene	4.2	ug/m3	3.0	03/26/20 19:38	
TO-15	o-Xylene	1.5	ug/m3	1.5	03/26/20 19:38	
10512035002	**IA-5**					
TO-15	Acetone	35.0	ug/m3	4.4	03/26/20 20:09	
TO-15	Benzene	2.1	ug/m3	0.59	03/26/20 20:09	
TO-15	2-Butanone (MEK)	9.7	ug/m3	5.5	03/26/20 20:09	
TO-15	Chloromethane	1.7	ug/m3	0.77	03/26/20 20:09	
TO-15	Cyclohexane	2.5J	ug/m3	3.2	03/26/20 20:09	
TO-15	1,4-Dichlorobenzene	13.2	ug/m3	5.6	03/26/20 20:09	
TO-15	Dichlorodifluoromethane	3.7	ug/m3	1.8	03/26/20 20:09	
TO-15	Ethanol	1180	ug/m3	3.5	03/26/20 20:09	E
TO-15	Ethylbenzene	1.8	ug/m3	1.6	03/26/20 20:09	
TO-15	n-Heptane	1.5	ug/m3	1.5	03/26/20 20:09	
TO-15	n-Hexane	2.9	ug/m3	1.3	03/26/20 20:09	
TO-15	Methylene Chloride	26.4	ug/m3	6.5	03/26/20 20:09	
TO-15	Naphthalene	3.1J	ug/m3	4.9	03/26/20 20:09	
TO-15	2-Propanol	24.4	ug/m3	4.6	03/26/20 20:09	
TO-15	Styrene	8.2	ug/m3	1.6	03/26/20 20:09	
TO-15	Tetrachloroethene	18.9	ug/m3	1.3	03/26/20 20:09	
TO-15	Tetrahydrofuran	2.3	ug/m3	1.1	03/26/20 20:09	
TO-15	Toluene	165	ug/m3	1.4	03/26/20 20:09	
TO-15	Trichloroethene	3.0	ug/m3	1.0	03/26/20 20:09	
TO-15	Trichlorofluoromethane	2.1	ug/m3	2.1	03/26/20 20:09	
TO-15	1,2,4-Trimethylbenzene	2.0	ug/m3	1.8	03/26/20 20:09	
TO-15	m&p-Xylene	6.3	ug/m3	3.2	03/26/20 20:09	
TO-15	o-Xylene	2.0	ug/m3	1.6	03/26/20 20:09	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512035003	**IA-19**					
TO-15	Acetone	26.5	ug/m3	4.2	03/26/20 20:39	
TO-15	Benzene	1.3	ug/m3	0.57	03/26/20 20:39	
TO-15	2-Butanone (MEK)	10.4	ug/m3	5.2	03/26/20 20:39	
TO-15	Chloromethane	1.2	ug/m3	0.74	03/26/20 20:39	
TO-15	1,4-Dichlorobenzene	9.1	ug/m3	5.4	03/26/20 20:39	
TO-15	Dichlorodifluoromethane	3.0	ug/m3	1.8	03/26/20 20:39	
TO-15	Ethanol	1140	ug/m3	3.4	03/26/20 20:39	E
TO-15	Ethylbenzene	1.5J	ug/m3	1.5	03/26/20 20:39	
TO-15	n-Heptane	1.0J	ug/m3	1.5	03/26/20 20:39	
TO-15	n-Hexane	1.3	ug/m3	1.3	03/26/20 20:39	
TO-15	Methylene Chloride	20.5	ug/m3	6.2	03/26/20 20:39	
TO-15	Naphthalene	3.1J	ug/m3	4.7	03/26/20 20:39	
TO-15	2-Propanol	21.4	ug/m3	4.4	03/26/20 20:39	
TO-15	Styrene	3.3	ug/m3	1.5	03/26/20 20:39	
TO-15	Tetrachloroethene	11.6	ug/m3	1.2	03/26/20 20:39	
TO-15	Tetrahydrofuran	1.9	ug/m3	1.0	03/26/20 20:39	
TO-15	Toluene	149	ug/m3	1.3	03/26/20 20:39	
TO-15	Trichloroethene	2.3	ug/m3	0.96	03/26/20 20:39	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	2.0	03/26/20 20:39	
TO-15	1,2,4-Trimethylbenzene	1.7J	ug/m3	1.7	03/26/20 20:39	
TO-15	m&p-Xylene	4.6	ug/m3	3.1	03/26/20 20:39	
TO-15	o-Xylene	1.3J	ug/m3	1.5	03/26/20 20:39	
10512035004	**IA-20**					
TO-15	Acetone	26.6	ug/m3	4.2	03/26/20 21:08	
TO-15	Benzene	1.1	ug/m3	0.57	03/26/20 21:08	
TO-15	2-Butanone (MEK)	7.9	ug/m3	5.2	03/26/20 21:08	
TO-15	Chloromethane	1.1	ug/m3	0.74	03/26/20 21:08	
TO-15	Cyclohexane	1.2J	ug/m3	3.1	03/26/20 21:08	
TO-15	1,4-Dichlorobenzene	8.4	ug/m3	5.4	03/26/20 21:08	
TO-15	Dichlorodifluoromethane	2.9	ug/m3	1.8	03/26/20 21:08	
TO-15	Ethanol	965	ug/m3	3.4	03/26/20 21:08	E
TO-15	Ethylbenzene	1.3J	ug/m3	1.5	03/26/20 21:08	
TO-15	n-Hexane	1.1J	ug/m3	1.3	03/26/20 21:08	
TO-15	Methylene Chloride	18.5	ug/m3	6.2	03/26/20 21:08	
TO-15	Naphthalene	2.9J	ug/m3	4.7	03/26/20 21:08	
TO-15	2-Propanol	24.5	ug/m3	4.4	03/26/20 21:08	
TO-15	Styrene	1.8	ug/m3	1.5	03/26/20 21:08	
TO-15	Tetrachloroethene	7.4	ug/m3	1.2	03/26/20 21:08	
TO-15	Tetrahydrofuran	0.95J	ug/m3	1.0	03/26/20 21:08	
TO-15	Toluene	120	ug/m3	1.3	03/26/20 21:08	
TO-15	Trichloroethene	2.0	ug/m3	0.96	03/26/20 21:08	
TO-15	Trichlorofluoromethane	1.5J	ug/m3	2.0	03/26/20 21:08	
TO-15	1,2,4-Trimethylbenzene	1.4J	ug/m3	1.7	03/26/20 21:08	
TO-15	m&p-Xylene	4.1	ug/m3	3.1	03/26/20 21:08	
TO-15	o-Xylene	1.2J	ug/m3	1.5	03/26/20 21:08	

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512035005	**IA-12**					
TO-15	Acetone	22.7	ug/m3	4.4	03/26/20 21:39	
TO-15	Benzene	1.4	ug/m3	0.59	03/26/20 21:39	
TO-15	2-Butanone (MEK)	6.5	ug/m3	5.5	03/26/20 21:39	
TO-15	Chloromethane	1.1	ug/m3	0.77	03/26/20 21:39	
TO-15	1,4-Dichlorobenzene	7.3	ug/m3	5.6	03/26/20 21:39	
TO-15	Dichlorodifluoromethane	3.0	ug/m3	1.8	03/26/20 21:39	
TO-15	Ethanol	914	ug/m3	3.5	03/26/20 21:39	E
TO-15	Ethylbenzene	1.2J	ug/m3	1.6	03/26/20 21:39	
TO-15	n-Hexane	1.8	ug/m3	1.3	03/26/20 21:39	
TO-15	Methylene Chloride	20.9	ug/m3	6.5	03/26/20 21:39	
TO-15	Naphthalene	3.0J	ug/m3	4.9	03/26/20 21:39	
TO-15	2-Propanol	20.5	ug/m3	4.6	03/26/20 21:39	
TO-15	Styrene	2.1	ug/m3	1.6	03/26/20 21:39	
TO-15	Tetrachloroethene	8.6	ug/m3	1.3	03/26/20 21:39	
TO-15	Tetrahydrofuran	1.3	ug/m3	1.1	03/26/20 21:39	
TO-15	Toluene	116	ug/m3	1.4	03/26/20 21:39	
TO-15	Trichloroethene	1.7	ug/m3	1.0	03/26/20 21:39	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	2.1	03/26/20 21:39	
TO-15	1,2,4-Trimethylbenzene	1.2J	ug/m3	1.8	03/26/20 21:39	
TO-15	m&p-Xylene	3.7	ug/m3	3.2	03/26/20 21:39	
TO-15	o-Xylene	1.1J	ug/m3	1.6	03/26/20 21:39	
10512035006	**IA-21**					
TO-15	Acetone	22.0	ug/m3	4.0	03/26/20 22:09	
TO-15	Benzene	1.1	ug/m3	0.55	03/26/20 22:09	
TO-15	2-Butanone (MEK)	6.8	ug/m3	5.0	03/26/20 22:09	
TO-15	Chloromethane	0.99	ug/m3	0.71	03/26/20 22:09	
TO-15	Cyclohexane	1.2J	ug/m3	2.9	03/26/20 22:09	
TO-15	1,4-Dichlorobenzene	6.9	ug/m3	5.1	03/26/20 22:09	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.7	03/26/20 22:09	
TO-15	Ethanol	834	ug/m3	3.2	03/26/20 22:09	E
TO-15	Ethylbenzene	0.96J	ug/m3	1.5	03/26/20 22:09	
TO-15	n-Heptane	0.69J	ug/m3	1.4	03/26/20 22:09	
TO-15	n-Hexane	1.2J	ug/m3	1.2	03/26/20 22:09	
TO-15	Methylene Chloride	16.9	ug/m3	5.9	03/26/20 22:09	
TO-15	Naphthalene	2.7J	ug/m3	4.5	03/26/20 22:09	
TO-15	2-Propanol	19.3	ug/m3	4.2	03/26/20 22:09	
TO-15	Styrene	2.1	ug/m3	1.5	03/26/20 22:09	
TO-15	Tetrachloroethene	9.4	ug/m3	1.2	03/26/20 22:09	
TO-15	Tetrahydrofuran	0.91J	ug/m3	1.0	03/26/20 22:09	
TO-15	Toluene	104	ug/m3	1.3	03/26/20 22:09	
TO-15	Trichloroethene	1.8	ug/m3	0.92	03/26/20 22:09	
TO-15	Trichlorofluoromethane	1.5J	ug/m3	1.9	03/26/20 22:09	
TO-15	1,2,4-Trimethylbenzene	1.0J	ug/m3	1.7	03/26/20 22:09	
TO-15	m&p-Xylene	3.1	ug/m3	3.0	03/26/20 22:09	
TO-15	o-Xylene	0.99J	ug/m3	1.5	03/26/20 22:09	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-14 **Lab ID: 10512035001** Collected: 03/16/20 15:52 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**27.0**	ug/m3	4.0	2.0	1.68		03/26/20 19:38	67-64-1	
Benzene	**1.6**	ug/m3	0.55	0.26	1.68		03/26/20 19:38	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		03/26/20 19:38	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		03/26/20 19:38	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		03/26/20 19:38	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		03/26/20 19:38	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		03/26/20 19:38	106-99-0	
2-Butanone (MEK)	**8.1**	ug/m3	5.0	0.62	1.68		03/26/20 19:38	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		03/26/20 19:38	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		03/26/20 19:38	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		03/26/20 19:38	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		03/26/20 19:38	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		03/26/20 19:38	67-66-3	
Chloromethane	**1.2**	ug/m3	0.71	0.26	1.68		03/26/20 19:38	74-87-3	
Cyclohexane	**<0.59**	ug/m3	2.9	0.59	1.68		03/26/20 19:38	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		03/26/20 19:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		03/26/20 19:38	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/26/20 19:38	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		03/26/20 19:38	541-73-1	
1,4-Dichlorobenzene	**10.8**	ug/m3	5.1	1.7	1.68		03/26/20 19:38	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.7	0.49	1.68		03/26/20 19:38	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		03/26/20 19:38	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		03/26/20 19:38	107-06-2	
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		03/26/20 19:38	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		03/26/20 19:38	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		03/26/20 19:38	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		03/26/20 19:38	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		03/26/20 19:38	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		03/26/20 19:38	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		03/26/20 19:38	76-14-2	
Ethanol	**723**	ug/m3	3.2	1.4	1.68		03/26/20 19:38	64-17-5	E
Ethyl acetate	**<0.32**	ug/m3	1.2	0.32	1.68		03/26/20 19:38	141-78-6	
Ethylbenzene	**1.2J**	ug/m3	1.5	0.51	1.68		03/26/20 19:38	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		03/26/20 19:38	622-96-8	
n-Heptane	**1.4J**	ug/m3	1.4	0.64	1.68		03/26/20 19:38	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		03/26/20 19:38	87-68-3	
n-Hexane	**1.9**	ug/m3	1.2	0.52	1.68		03/26/20 19:38	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		03/26/20 19:38	591-78-6	
Methylene Chloride	**18.1**	ug/m3	5.9	2.0	1.68		03/26/20 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		03/26/20 19:38	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		03/26/20 19:38	1634-04-4	
Naphthalene	**2.7J**	ug/m3	4.5	2.2	1.68		03/26/20 19:38	91-20-3	
2-Propanol	**16.6**	ug/m3	4.2	1.2	1.68		03/26/20 19:38	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		03/26/20 19:38	115-07-1	
Styrene	**7.9**	ug/m3	1.5	0.58	1.68		03/26/20 19:38	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		03/26/20 19:38	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-14 **Lab ID: 10512035001** Collected: 03/16/20 15:52 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**21.9**	ug/m3	1.2	0.53	1.68		03/26/20 19:38	127-18-4	
Tetrahydrofuran	**1.8**	ug/m3	1.0	0.44	1.68		03/26/20 19:38	109-99-9	
Toluene	**108**	ug/m3	1.3	0.59	1.68		03/26/20 19:38	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		03/26/20 19:38	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		03/26/20 19:38	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		03/26/20 19:38	79-00-5	
Trichloroethene	**1.7**	ug/m3	0.92	0.43	1.68		03/26/20 19:38	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.61	1.68		03/26/20 19:38	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		03/26/20 19:38	76-13-1	
1,2,4-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.76	1.68		03/26/20 19:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.67**	ug/m3	1.7	0.67	1.68		03/26/20 19:38	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		03/26/20 19:38	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		03/26/20 19:38	75-01-4	
m&p-Xylene	**4.2**	ug/m3	3.0	1.2	1.68		03/26/20 19:38	179601-23-1	
o-Xylene	**1.5**	ug/m3	1.5	0.58	1.68		03/26/20 19:38	95-47-6	

Sample: IA-5 **Lab ID: 10512035002** Collected: 03/16/20 15:23 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**35.0**	ug/m3	4.4	2.2	1.83		03/26/20 20:09	67-64-1	
Benzene	**2.1**	ug/m3	0.59	0.28	1.83		03/26/20 20:09	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		03/26/20 20:09	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		03/26/20 20:09	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		03/26/20 20:09	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		03/26/20 20:09	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		03/26/20 20:09	106-99-0	
2-Butanone (MEK)	**9.7**	ug/m3	5.5	0.68	1.83		03/26/20 20:09	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		03/26/20 20:09	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		03/26/20 20:09	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		03/26/20 20:09	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		03/26/20 20:09	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		03/26/20 20:09	67-66-3	
Chloromethane	**1.7**	ug/m3	0.77	0.29	1.83		03/26/20 20:09	74-87-3	
Cyclohexane	**2.5J**	ug/m3	3.2	0.65	1.83		03/26/20 20:09	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		03/26/20 20:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		03/26/20 20:09	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/26/20 20:09	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.2	1.1	1.83		03/26/20 20:09	541-73-1	
1,4-Dichlorobenzene	**13.2**	ug/m3	5.6	1.8	1.83		03/26/20 20:09	106-46-7	
Dichlorodifluoromethane	**3.7**	ug/m3	1.8	0.54	1.83		03/26/20 20:09	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		03/26/20 20:09	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		03/26/20 20:09	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-5 **Lab ID: 10512035002** Collected: 03/16/20 15:23 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		03/26/20 20:09	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		03/26/20 20:09	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		03/26/20 20:09	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		03/26/20 20:09	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		03/26/20 20:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	1.7	0.81	1.83		03/26/20 20:09	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		03/26/20 20:09	76-14-2	
Ethanol	**1180**	ug/m3	3.5	1.5	1.83		03/26/20 20:09	64-17-5	E
Ethyl acetate	**<0.35**	ug/m3	1.3	0.35	1.83		03/26/20 20:09	141-78-6	
Ethylbenzene	**1.8**	ug/m3	1.6	0.56	1.83		03/26/20 20:09	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.6	1.0	1.83		03/26/20 20:09	622-96-8	
n-Heptane	**1.5**	ug/m3	1.5	0.70	1.83		03/26/20 20:09	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		03/26/20 20:09	87-68-3	
n-Hexane	**2.9**	ug/m3	1.3	0.57	1.83		03/26/20 20:09	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		03/26/20 20:09	591-78-6	
Methylene Chloride	**26.4**	ug/m3	6.5	2.2	1.83		03/26/20 20:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		03/26/20 20:09	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		03/26/20 20:09	1634-04-4	
Naphthalene	**3.1J**	ug/m3	4.9	2.4	1.83		03/26/20 20:09	91-20-3	
2-Propanol	**24.4**	ug/m3	4.6	1.3	1.83		03/26/20 20:09	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		03/26/20 20:09	115-07-1	
Styrene	**8.2**	ug/m3	1.6	0.63	1.83		03/26/20 20:09	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		03/26/20 20:09	79-34-5	
Tetrachloroethene	**18.9**	ug/m3	1.3	0.57	1.83		03/26/20 20:09	127-18-4	
Tetrahydrofuran	**2.3**	ug/m3	1.1	0.48	1.83		03/26/20 20:09	109-99-9	
Toluene	**165**	ug/m3	1.4	0.64	1.83		03/26/20 20:09	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		03/26/20 20:09	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		03/26/20 20:09	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		03/26/20 20:09	79-00-5	
Trichloroethene	**3.0**	ug/m3	1.0	0.46	1.83		03/26/20 20:09	79-01-6	
Trichlorofluoromethane	**2.1**	ug/m3	2.1	0.67	1.83		03/26/20 20:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		03/26/20 20:09	76-13-1	
1,2,4-Trimethylbenzene	**2.0**	ug/m3	1.8	0.83	1.83		03/26/20 20:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.73**	ug/m3	1.8	0.73	1.83		03/26/20 20:09	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		03/26/20 20:09	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		03/26/20 20:09	75-01-4	
m&p-Xylene	**6.3**	ug/m3	3.2	1.3	1.83		03/26/20 20:09	179601-23-1	
o-Xylene	**2.0**	ug/m3	1.6	0.63	1.83		03/26/20 20:09	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-19 **Lab ID: 10512035003** Collected: 03/16/20 15:40 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**26.5**	ug/m3	4.2	2.1	1.75		03/26/20 20:39	67-64-1	
Benzene	**1.3**	ug/m3	0.57	0.27	1.75		03/26/20 20:39	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		03/26/20 20:39	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		03/26/20 20:39	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		03/26/20 20:39	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		03/26/20 20:39	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		03/26/20 20:39	106-99-0	
2-Butanone (MEK)	**10.4**	ug/m3	5.2	0.65	1.75		03/26/20 20:39	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		03/26/20 20:39	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		03/26/20 20:39	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		03/26/20 20:39	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		03/26/20 20:39	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		03/26/20 20:39	67-66-3	
Chloromethane	**1.2**	ug/m3	0.74	0.27	1.75		03/26/20 20:39	74-87-3	
Cyclohexane	**<0.62**	ug/m3	3.1	0.62	1.75		03/26/20 20:39	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		03/26/20 20:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		03/26/20 20:39	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/26/20 20:39	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		03/26/20 20:39	541-73-1	
1,4-Dichlorobenzene	**9.1**	ug/m3	5.4	1.8	1.75		03/26/20 20:39	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.51	1.75		03/26/20 20:39	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		03/26/20 20:39	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		03/26/20 20:39	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		03/26/20 20:39	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		03/26/20 20:39	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		03/26/20 20:39	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		03/26/20 20:39	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		03/26/20 20:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		03/26/20 20:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		03/26/20 20:39	76-14-2	
Ethanol	**1140**	ug/m3	3.4	1.4	1.75		03/26/20 20:39	64-17-5	E
Ethyl acetate	**<0.33**	ug/m3	1.3	0.33	1.75		03/26/20 20:39	141-78-6	
Ethylbenzene	**1.5J**	ug/m3	1.5	0.53	1.75		03/26/20 20:39	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		03/26/20 20:39	622-96-8	
n-Heptane	**1.0J**	ug/m3	1.5	0.66	1.75		03/26/20 20:39	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		03/26/20 20:39	87-68-3	
n-Hexane	**1.3**	ug/m3	1.3	0.54	1.75		03/26/20 20:39	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		03/26/20 20:39	591-78-6	
Methylene Chloride	**20.5**	ug/m3	6.2	2.1	1.75		03/26/20 20:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		03/26/20 20:39	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		03/26/20 20:39	1634-04-4	
Naphthalene	**3.1J**	ug/m3	4.7	2.3	1.75		03/26/20 20:39	91-20-3	
2-Propanol	**21.4**	ug/m3	4.4	1.2	1.75		03/26/20 20:39	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		03/26/20 20:39	115-07-1	
Styrene	**3.3**	ug/m3	1.5	0.60	1.75		03/26/20 20:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		03/26/20 20:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-19 **Lab ID: 10512035003** Collected: 03/16/20 15:40 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**11.6**	ug/m3	1.2	0.55	1.75		03/26/20 20:39	127-18-4	
Tetrahydrofuran	**1.9**	ug/m3	1.0	0.46	1.75		03/26/20 20:39	109-99-9	
Toluene	**149**	ug/m3	1.3	0.61	1.75		03/26/20 20:39	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		03/26/20 20:39	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		03/26/20 20:39	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		03/26/20 20:39	79-00-5	
Trichloroethene	**2.3**	ug/m3	0.96	0.44	1.75		03/26/20 20:39	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.64	1.75		03/26/20 20:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		03/26/20 20:39	76-13-1	
1,2,4-Trimethylbenzene	**1.7J**	ug/m3	1.7	0.79	1.75		03/26/20 20:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.70**	ug/m3	1.7	0.70	1.75		03/26/20 20:39	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		03/26/20 20:39	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		03/26/20 20:39	75-01-4	
m&p-Xylene	**4.6**	ug/m3	3.1	1.2	1.75		03/26/20 20:39	179601-23-1	
o-Xylene	**1.3J**	ug/m3	1.5	0.60	1.75		03/26/20 20:39	95-47-6	

Sample: IA-20 **Lab ID: 10512035004** Collected: 03/16/20 15:25 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**26.6**	ug/m3	4.2	2.1	1.75		03/26/20 21:08	67-64-1	
Benzene	**1.1**	ug/m3	0.57	0.27	1.75		03/26/20 21:08	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		03/26/20 21:08	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		03/26/20 21:08	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		03/26/20 21:08	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		03/26/20 21:08	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		03/26/20 21:08	106-99-0	
2-Butanone (MEK)	**7.9**	ug/m3	5.2	0.65	1.75		03/26/20 21:08	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		03/26/20 21:08	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		03/26/20 21:08	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		03/26/20 21:08	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		03/26/20 21:08	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		03/26/20 21:08	67-66-3	
Chloromethane	**1.1**	ug/m3	0.74	0.27	1.75		03/26/20 21:08	74-87-3	
Cyclohexane	**1.2J**	ug/m3	3.1	0.62	1.75		03/26/20 21:08	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		03/26/20 21:08	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		03/26/20 21:08	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		03/26/20 21:08	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/m3	2.1	1.0	1.75		03/26/20 21:08	541-73-1	
1,4-Dichlorobenzene	**8.4**	ug/m3	5.4	1.8	1.75		03/26/20 21:08	106-46-7	
Dichlorodifluoromethane	**2.9**	ug/m3	1.8	0.51	1.75		03/26/20 21:08	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		03/26/20 21:08	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		03/26/20 21:08	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-20 **Lab ID: 10512035004** Collected: 03/16/20 15:25 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		03/26/20 21:08	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		03/26/20 21:08	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		03/26/20 21:08	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		03/26/20 21:08	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		03/26/20 21:08	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	1.6	0.77	1.75		03/26/20 21:08	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		03/26/20 21:08	76-14-2	
Ethanol	**965**	ug/m3	3.4	1.4	1.75		03/26/20 21:08	64-17-5	E
Ethyl acetate	**<0.33**	ug/m3	1.3	0.33	1.75		03/26/20 21:08	141-78-6	
Ethylbenzene	**1.3J**	ug/m3	1.5	0.53	1.75		03/26/20 21:08	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.4	1.0	1.75		03/26/20 21:08	622-96-8	
n-Heptane	**<0.66**	ug/m3	1.5	0.66	1.75		03/26/20 21:08	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		03/26/20 21:08	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.54	1.75		03/26/20 21:08	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		03/26/20 21:08	591-78-6	
Methylene Chloride	**18.5**	ug/m3	6.2	2.1	1.75		03/26/20 21:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.91**	ug/m3	7.3	0.91	1.75		03/26/20 21:08	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		03/26/20 21:08	1634-04-4	
Naphthalene	**2.9J**	ug/m3	4.7	2.3	1.75		03/26/20 21:08	91-20-3	
2-Propanol	**24.5**	ug/m3	4.4	1.2	1.75		03/26/20 21:08	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		03/26/20 21:08	115-07-1	
Styrene	**1.8**	ug/m3	1.5	0.60	1.75		03/26/20 21:08	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		03/26/20 21:08	79-34-5	
Tetrachloroethene	**7.4**	ug/m3	1.2	0.55	1.75		03/26/20 21:08	127-18-4	
Tetrahydrofuran	**0.95J**	ug/m3	1.0	0.46	1.75		03/26/20 21:08	109-99-9	
Toluene	**120**	ug/m3	1.3	0.61	1.75		03/26/20 21:08	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		03/26/20 21:08	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		03/26/20 21:08	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		03/26/20 21:08	79-00-5	
Trichloroethene	**2.0**	ug/m3	0.96	0.44	1.75		03/26/20 21:08	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.0	0.64	1.75		03/26/20 21:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		03/26/20 21:08	76-13-1	
1,2,4-Trimethylbenzene	**1.4J**	ug/m3	1.7	0.79	1.75		03/26/20 21:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.70**	ug/m3	1.7	0.70	1.75		03/26/20 21:08	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		03/26/20 21:08	108-05-4	
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		03/26/20 21:08	75-01-4	
m&p-Xylene	**4.1**	ug/m3	3.1	1.2	1.75		03/26/20 21:08	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.60	1.75		03/26/20 21:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-12 **Lab ID: 10512035005** Collected: 03/16/20 15:31 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.7**	ug/m3	4.4	2.2	1.83		03/26/20 21:39	67-64-1	
Benzene	**1.4**	ug/m3	0.59	0.28	1.83		03/26/20 21:39	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		03/26/20 21:39	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		03/26/20 21:39	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		03/26/20 21:39	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		03/26/20 21:39	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		03/26/20 21:39	106-99-0	
2-Butanone (MEK)	**6.5**	ug/m3	5.5	0.68	1.83		03/26/20 21:39	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		03/26/20 21:39	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		03/26/20 21:39	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		03/26/20 21:39	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		03/26/20 21:39	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		03/26/20 21:39	67-66-3	
Chloromethane	**1.1**	ug/m3	0.77	0.29	1.83		03/26/20 21:39	74-87-3	
Cyclohexane	**<0.65**	ug/m3	3.2	0.65	1.83		03/26/20 21:39	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		03/26/20 21:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		03/26/20 21:39	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/26/20 21:39	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.2	1.1	1.83		03/26/20 21:39	541-73-1	
1,4-Dichlorobenzene	**7.3**	ug/m3	5.6	1.8	1.83		03/26/20 21:39	106-46-7	
Dichlorodifluoromethane	**3.0**	ug/m3	1.8	0.54	1.83		03/26/20 21:39	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		03/26/20 21:39	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		03/26/20 21:39	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		03/26/20 21:39	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		03/26/20 21:39	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		03/26/20 21:39	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		03/26/20 21:39	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		03/26/20 21:39	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	1.7	0.81	1.83		03/26/20 21:39	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		03/26/20 21:39	76-14-2	
Ethanol	**914**	ug/m3	3.5	1.5	1.83		03/26/20 21:39	64-17-5	E
Ethyl acetate	**<0.35**	ug/m3	1.3	0.35	1.83		03/26/20 21:39	141-78-6	
Ethylbenzene	**1.2J**	ug/m3	1.6	0.56	1.83		03/26/20 21:39	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.6	1.0	1.83		03/26/20 21:39	622-96-8	
n-Heptane	**<0.70**	ug/m3	1.5	0.70	1.83		03/26/20 21:39	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		03/26/20 21:39	87-68-3	
n-Hexane	**1.8**	ug/m3	1.3	0.57	1.83		03/26/20 21:39	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		03/26/20 21:39	591-78-6	
Methylene Chloride	**20.9**	ug/m3	6.5	2.2	1.83		03/26/20 21:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		03/26/20 21:39	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		03/26/20 21:39	1634-04-4	
Naphthalene	**3.0J**	ug/m3	4.9	2.4	1.83		03/26/20 21:39	91-20-3	
2-Propanol	**20.5**	ug/m3	4.6	1.3	1.83		03/26/20 21:39	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		03/26/20 21:39	115-07-1	
Styrene	**2.1**	ug/m3	1.6	0.63	1.83		03/26/20 21:39	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		03/26/20 21:39	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-12 **Lab ID: 10512035005** Collected: 03/16/20 15:31 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**8.6**	ug/m3	1.3	0.57	1.83		03/26/20 21:39	127-18-4	
Tetrahydrofuran	**1.3**	ug/m3	1.1	0.48	1.83		03/26/20 21:39	109-99-9	
Toluene	**116**	ug/m3	1.4	0.64	1.83		03/26/20 21:39	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		03/26/20 21:39	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		03/26/20 21:39	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		03/26/20 21:39	79-00-5	
Trichloroethene	**1.7**	ug/m3	1.0	0.46	1.83		03/26/20 21:39	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.1	0.67	1.83		03/26/20 21:39	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		03/26/20 21:39	76-13-1	
1,2,4-Trimethylbenzene	**1.2J**	ug/m3	1.8	0.83	1.83		03/26/20 21:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.73**	ug/m3	1.8	0.73	1.83		03/26/20 21:39	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		03/26/20 21:39	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		03/26/20 21:39	75-01-4	
m&p-Xylene	**3.7**	ug/m3	3.2	1.3	1.83		03/26/20 21:39	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.6	0.63	1.83		03/26/20 21:39	95-47-6	

Sample: IA-21 **Lab ID: 10512035006** Collected: 03/16/20 15:53 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**22.0**	ug/m3	4.0	2.0	1.68		03/26/20 22:09	67-64-1	
Benzene	**1.1**	ug/m3	0.55	0.26	1.68		03/26/20 22:09	71-43-2	
Benzyl chloride	**<2.0**	ug/m3	4.4	2.0	1.68		03/26/20 22:09	100-44-7	
Bromodichloromethane	**<0.61**	ug/m3	2.3	0.61	1.68		03/26/20 22:09	75-27-4	
Bromoform	**<2.4**	ug/m3	8.8	2.4	1.68		03/26/20 22:09	75-25-2	
Bromomethane	**<0.38**	ug/m3	1.3	0.38	1.68		03/26/20 22:09	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.76	0.22	1.68		03/26/20 22:09	106-99-0	
2-Butanone (MEK)	**6.8**	ug/m3	5.0	0.62	1.68		03/26/20 22:09	78-93-3	
Carbon disulfide	**<0.37**	ug/m3	1.1	0.37	1.68		03/26/20 22:09	75-15-0	
Carbon tetrachloride	**<0.72**	ug/m3	2.2	0.72	1.68		03/26/20 22:09	56-23-5	
Chlorobenzene	**<0.46**	ug/m3	1.6	0.46	1.68		03/26/20 22:09	108-90-7	
Chloroethane	**<0.44**	ug/m3	0.90	0.44	1.68		03/26/20 22:09	75-00-3	
Chloroform	**<0.33**	ug/m3	0.83	0.33	1.68		03/26/20 22:09	67-66-3	
Chloromethane	**0.99**	ug/m3	0.71	0.26	1.68		03/26/20 22:09	74-87-3	
Cyclohexane	**1.2J**	ug/m3	2.9	0.59	1.68		03/26/20 22:09	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.9	1.2	1.68		03/26/20 22:09	124-48-1	
1,2-Dibromoethane (EDB)	**<0.61**	ug/m3	1.3	0.61	1.68		03/26/20 22:09	106-93-4	
1,2-Dichlorobenzene	**<0.84**	ug/m3	2.0	0.84	1.68		03/26/20 22:09	95-50-1	
1,3-Dichlorobenzene	**<0.98**	ug/m3	2.0	0.98	1.68		03/26/20 22:09	541-73-1	
1,4-Dichlorobenzene	**6.9**	ug/m3	5.1	1.7	1.68		03/26/20 22:09	106-46-7	
Dichlorodifluoromethane	**2.7**	ug/m3	1.7	0.49	1.68		03/26/20 22:09	75-71-8	
1,1-Dichloroethane	**<0.38**	ug/m3	1.4	0.38	1.68		03/26/20 22:09	75-34-3	
1,2-Dichloroethane	**<0.25**	ug/m3	0.69	0.25	1.68		03/26/20 22:09	107-06-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Sample: IA-21 **Lab ID: 10512035006** Collected: 03/16/20 15:53 Received: 03/17/20 15:00 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.46**	ug/m3	1.4	0.46	1.68		03/26/20 22:09	75-35-4	
cis-1,2-Dichloroethene	**<0.37**	ug/m3	1.4	0.37	1.68		03/26/20 22:09	156-59-2	
trans-1,2-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.68		03/26/20 22:09	156-60-5	
1,2-Dichloropropane	**<0.39**	ug/m3	1.6	0.39	1.68		03/26/20 22:09	78-87-5	
cis-1,3-Dichloropropene	**<0.51**	ug/m3	1.6	0.51	1.68		03/26/20 22:09	10061-01-5	
trans-1,3-Dichloropropene	**<0.74**	ug/m3	1.6	0.74	1.68		03/26/20 22:09	10061-02-6	
Dichlorotetrafluoroethane	**<0.73**	ug/m3	2.4	0.73	1.68		03/26/20 22:09	76-14-2	
Ethanol	**834**	ug/m3	3.2	1.4	1.68		03/26/20 22:09	64-17-5	E
Ethyl acetate	**<0.32**	ug/m3	1.2	0.32	1.68		03/26/20 22:09	141-78-6	
Ethylbenzene	**0.96J**	ug/m3	1.5	0.51	1.68		03/26/20 22:09	100-41-4	
4-Ethyltoluene	**<0.96**	ug/m3	4.2	0.96	1.68		03/26/20 22:09	622-96-8	
n-Heptane	**0.69J**	ug/m3	1.4	0.64	1.68		03/26/20 22:09	142-82-5	
Hexachloro-1,3-butadiene	**<3.3**	ug/m3	9.1	3.3	1.68		03/26/20 22:09	87-68-3	
n-Hexane	**1.2J**	ug/m3	1.2	0.52	1.68		03/26/20 22:09	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.0	1.3	1.68		03/26/20 22:09	591-78-6	
Methylene Chloride	**16.9**	ug/m3	5.9	2.0	1.68		03/26/20 22:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.87**	ug/m3	7.0	0.87	1.68		03/26/20 22:09	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	6.1	1.1	1.68		03/26/20 22:09	1634-04-4	
Naphthalene	**2.7J**	ug/m3	4.5	2.2	1.68		03/26/20 22:09	91-20-3	
2-Propanol	**19.3**	ug/m3	4.2	1.2	1.68		03/26/20 22:09	67-63-0	
Propylene	**<0.24**	ug/m3	0.59	0.24	1.68		03/26/20 22:09	115-07-1	
Styrene	**2.1**	ug/m3	1.5	0.58	1.68		03/26/20 22:09	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.52**	ug/m3	1.2	0.52	1.68		03/26/20 22:09	79-34-5	
Tetrachloroethene	**9.4**	ug/m3	1.2	0.53	1.68		03/26/20 22:09	127-18-4	
Tetrahydrofuran	**0.91J**	ug/m3	1.0	0.44	1.68		03/26/20 22:09	109-99-9	
Toluene	**104**	ug/m3	1.3	0.59	1.68		03/26/20 22:09	108-88-3	
1,2,4-Trichlorobenzene	**<6.2**	ug/m3	12.7	6.2	1.68		03/26/20 22:09	120-82-1	
1,1,1-Trichloroethane	**<0.52**	ug/m3	1.9	0.52	1.68		03/26/20 22:09	71-55-6	
1,1,2-Trichloroethane	**<0.41**	ug/m3	0.93	0.41	1.68		03/26/20 22:09	79-00-5	
Trichloroethene	**1.8**	ug/m3	0.92	0.43	1.68		03/26/20 22:09	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	1.9	0.61	1.68		03/26/20 22:09	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.95**	ug/m3	2.6	0.95	1.68		03/26/20 22:09	76-13-1	
1,2,4-Trimethylbenzene	**1.0J**	ug/m3	1.7	0.76	1.68		03/26/20 22:09	95-63-6	
1,3,5-Trimethylbenzene	**<0.67**	ug/m3	1.7	0.67	1.68		03/26/20 22:09	108-67-8	
Vinyl acetate	**<0.45**	ug/m3	1.2	0.45	1.68		03/26/20 22:09	108-05-4	
Vinyl chloride	**<0.21**	ug/m3	0.44	0.21	1.68		03/26/20 22:09	75-01-4	
m&p-Xylene	**3.1**	ug/m3	3.0	1.2	1.68		03/26/20 22:09	179601-23-1	
o-Xylene	**0.99J**	ug/m3	1.5	0.58	1.68		03/26/20 22:09	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

QC Batch: 666850 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10512035001, 10512035002, 10512035003, 10512035004, 10512035005, 10512035006

METHOD BLANK: 3575646 Matrix: Air
Associated Lab Samples: 10512035001, 10512035002, 10512035003, 10512035004, 10512035005, 10512035006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/26/20 10:40	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	03/26/20 10:40	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	03/26/20 10:40	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/26/20 10:40	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/26/20 10:40	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/26/20 10:40	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/26/20 10:40	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/26/20 10:40	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/26/20 10:40	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/26/20 10:40	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/26/20 10:40	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/26/20 10:40	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/26/20 10:40	
1,3-Butadiene	ug/m3	<0.13	0.45	03/26/20 10:40	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/26/20 10:40	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/26/20 10:40	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/26/20 10:40	
2-Hexanone	ug/m3	<0.74	4.2	03/26/20 10:40	
2-Propanol	ug/m3	<0.70	2.5	03/26/20 10:40	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/26/20 10:40	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/26/20 10:40	
Acetone	ug/m3	<1.2	2.4	03/26/20 10:40	
Benzene	ug/m3	<0.15	0.32	03/26/20 10:40	
Benzyl chloride	ug/m3	<1.2	2.6	03/26/20 10:40	
Bromodichloromethane	ug/m3	<0.37	1.4	03/26/20 10:40	
Bromoform	ug/m3	<1.4	5.2	03/26/20 10:40	
Bromomethane	ug/m3	<0.23	0.79	03/26/20 10:40	
Carbon disulfide	ug/m3	<0.22	0.63	03/26/20 10:40	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/26/20 10:40	
Chlorobenzene	ug/m3	<0.28	0.94	03/26/20 10:40	
Chloroethane	ug/m3	<0.26	0.54	03/26/20 10:40	
Chloroform	ug/m3	<0.20	0.50	03/26/20 10:40	
Chloromethane	ug/m3	<0.16	0.42	03/26/20 10:40	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/26/20 10:40	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/26/20 10:40	
Cyclohexane	ug/m3	<0.35	1.8	03/26/20 10:40	
Dibromochloromethane	ug/m3	<0.72	1.7	03/26/20 10:40	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/26/20 10:40	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/26/20 10:40	
Ethanol	ug/m3	<0.81	1.9	03/26/20 10:40	
Ethyl acetate	ug/m3	<0.19	0.73	03/26/20 10:40	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

METHOD BLANK: 3575646 Matrix: Air
Associated Lab Samples: 10512035001, 10512035002, 10512035003, 10512035004, 10512035005, 10512035006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	03/26/20 10:40	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/26/20 10:40	
m&p-Xylene	ug/m3	<0.70	1.8	03/26/20 10:40	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/26/20 10:40	
Methylene Chloride	ug/m3	<1.2	3.5	03/26/20 10:40	
n-Heptane	ug/m3	<0.38	0.83	03/26/20 10:40	
n-Hexane	ug/m3	<0.31	0.72	03/26/20 10:40	
Naphthalene	ug/m3	<1.3	2.7	03/26/20 10:40	
o-Xylene	ug/m3	<0.34	0.88	03/26/20 10:40	
Propylene	ug/m3	<0.14	0.35	03/26/20 10:40	
Styrene	ug/m3	<0.34	0.87	03/26/20 10:40	
Tetrachloroethene	ug/m3	<0.31	0.69	03/26/20 10:40	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/26/20 10:40	
Toluene	ug/m3	<0.35	0.77	03/26/20 10:40	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/26/20 10:40	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/26/20 10:40	
Trichloroethene	ug/m3	<0.25	0.55	03/26/20 10:40	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/26/20 10:40	
Vinyl acetate	ug/m3	<0.27	0.72	03/26/20 10:40	
Vinyl chloride	ug/m3	<0.13	0.26	03/26/20 10:40	

LABORATORY CONTROL SAMPLE: 3575647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	58.7	103	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	76.5	106	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	59.9	104	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	80.7	100	70-130	
1,1-Dichloroethane	ug/m3	42.7	41.5	97	70-130	
1,1-Dichloroethene	ug/m3	41.4	40.6	98	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	145	93	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	62.2	121	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	88.9	111	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	63.8	101	70-136	
1,2-Dichloroethane	ug/m3	42.4	43.5	103	70-130	
1,2-Dichloropropane	ug/m3	48.6	48.6	100	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	59.6	115	70-136	
1,3-Butadiene	ug/m3	23.3	22.4	96	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	63.8	101	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	63.1	99	70-145	
2-Butanone (MEK)	ug/m3	31.4	29.4	94	61-130	
2-Hexanone	ug/m3	42.8	42.4	99	70-138	
2-Propanol	ug/m3	119	124	104	70-136	
4-Ethyltoluene	ug/m3	52.4	64.0	122	70-142	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

LABORATORY CONTROL SAMPLE: 3575647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	43.5	100	70-134	
Acetone	ug/m3	126	112	88	59-137	
Benzene	ug/m3	33.5	32.5	97	70-133	
Benzyl chloride	ug/m3	55.1	55.7	101	70-139	
Bromodichloromethane	ug/m3	71.5	73.5	103	70-130	
Bromoform	ug/m3	110	99.1	90	60-140	
Bromomethane	ug/m3	41.3	36.2	88	70-131	
Carbon disulfide	ug/m3	33.3	32.7	98	70-130	
Carbon tetrachloride	ug/m3	66.2	69.0	104	70-133	
Chlorobenzene	ug/m3	48.3	50.1	104	70-131	
Chloroethane	ug/m3	28.1	26.3	93	70-141	
Chloroform	ug/m3	51.1	48.2	94	70-130	
Chloromethane	ug/m3	21.9	21.6	99	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	44.2	106	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	53.1	111	70-138	
Cyclohexane	ug/m3	36.7	39.5	108	70-133	
Dibromochloromethane	ug/m3	90.7	91.3	101	70-139	
Dichlorodifluoromethane	ug/m3	51.6	50.2	97	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	72.8	100	65-133	
Ethanol	ug/m3	103	102	100	65-135	
Ethyl acetate	ug/m3	38.6	39.0	101	70-135	
Ethylbenzene	ug/m3	45.6	51.9	114	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	113	101	70-134	
m&p-Xylene	ug/m3	91.2	108	119	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	40.0	104	70-131	
Methylene Chloride	ug/m3	182	176	96	69-130	
n-Heptane	ug/m3	43.6	45.0	103	70-130	
n-Hexane	ug/m3	37.6	37.3	99	70-131	
Naphthalene	ug/m3	57.7	51.3	89	63-130	
o-Xylene	ug/m3	45.5	52.8	116	70-135	
Propylene	ug/m3	18.2	17.3	95	63-139	
Styrene	ug/m3	44.9	53.3	119	70-143	
Tetrachloroethene	ug/m3	71	74.6	105	70-136	
Tetrahydrofuran	ug/m3	31.5	32.7	104	70-137	
Toluene	ug/m3	39.5	42.5	108	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.4	101	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	53.0	111	70-139	
Trichloroethene	ug/m3	56.3	58.4	104	70-132	
Trichlorofluoromethane	ug/m3	59.7	60.1	101	65-136	
Vinyl acetate	ug/m3	34.5	38.7	112	66-140	
Vinyl chloride	ug/m3	26.7	26.6	99	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

SAMPLE DUPLICATE: 3576390

Parameter	Units	10511617001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.83		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.83		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.65		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.5		25	
1,1-Dichloroethane	ug/m3	ND	<0.61		25	
1,1-Dichloroethene	ug/m3	ND	<0.74		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<10.0		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<1.2		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.98		25	
1,2-Dichlorobenzene	ug/m3	ND	<1.3		25	
1,2-Dichloroethane	ug/m3	ND	<0.40		25	
1,2-Dichloropropane	ug/m3	ND	<0.62		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<1.1		25	
1,3-Butadiene	ug/m3	ND	<0.34		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.6		25	
1,4-Dichlorobenzene	ug/m3	ND	<2.7		25	
2-Butanone (MEK)	ug/m3	ND	<0.99		25	
2-Hexanone	ug/m3	ND	<2.0		25	
2-Propanol	ug/m3	ND	<1.9		25	
4-Ethyltoluene	ug/m3	ND	<1.5		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<1.4		25	
Acetone	ug/m3	12.1	11.9	1	25	
Benzene	ug/m3	1.6	1.7	6	25	
Benzyl chloride	ug/m3	ND	<3.2		25	
Bromodichloromethane	ug/m3	ND	<0.98		25	
Bromoform	ug/m3	ND	<3.8		25	
Bromomethane	ug/m3	ND	<0.61		25	
Carbon disulfide	ug/m3	ND	<0.59		25	
Carbon tetrachloride	ug/m3	ND	<1.2		25	
Chlorobenzene	ug/m3	ND	<0.74		25	
Chloroethane	ug/m3	ND	<0.70		25	
Chloroform	ug/m3	ND	<0.53		25	
Chloromethane	ug/m3	1.2	1.2	1	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.59		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.82		25	
Cyclohexane	ug/m3	ND	<0.95		25	
Dibromochloromethane	ug/m3	ND	<1.9		25	
Dichlorodifluoromethane	ug/m3	ND	2.6J		25	
Dichlorotetrafluoroethane	ug/m3	ND	<1.2		25	
Ethanol	ug/m3	9.5	9.0	6	25	
Ethyl acetate	ug/m3	ND	<0.51		25	
Ethylbenzene	ug/m3	ND	<0.82		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<5.3		25	
m&p-Xylene	ug/m3	ND	<1.9		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.8		25	
Methylene Chloride	ug/m3	ND	4.4J		25	
n-Heptane	ug/m3	ND	<1.0		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

SAMPLE DUPLICATE: 3576390

Parameter	Units	10511617001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	ND	<0.84		25	
Naphthalene	ug/m3	ND	<3.5		25	
o-Xylene	ug/m3	ND	<0.93		25	
Propylene	ug/m3	ND	<0.38		25	
Styrene	ug/m3	ND	<0.93		25	
Tetrachloroethene	ug/m3	ND	<0.84		25	
Tetrahydrofuran	ug/m3	ND	<0.70		25	
Toluene	ug/m3	ND	<0.94		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.77		25	
trans-1,3-Dichloropropene	ug/m3	ND	<1.2		25	
Trichloroethene	ug/m3	ND	<0.68		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.73		25	
Vinyl chloride	ug/m3	ND	<0.34		25	

SAMPLE DUPLICATE: 3576391

Parameter	Units	10511617003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.81		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.65		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.53		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.57		25	
1,3-Butadiene	ug/m3	ND	<0.18		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.84		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.4		25	
2-Butanone (MEK)	ug/m3	ND	<0.53		25	
2-Hexanone	ug/m3	ND	<1.1		25	
2-Propanol	ug/m3	ND	<1.0		25	
4-Ethyltoluene	ug/m3	ND	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.75		25	
Acetone	ug/m3	6.6	6.3	5	25	
Benzene	ug/m3	1.2	1.2	2	25	
Benzyl chloride	ug/m3	ND	<1.7		25	
Bromodichloromethane	ug/m3	ND	<0.53		25	
Bromoform	ug/m3	ND	<2.0		25	
Bromomethane	ug/m3	ND	<0.33		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

SAMPLE DUPLICATE: 3576391

Parameter	Units	10511617003 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.32		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chlorobenzene	ug/m3	ND	<0.40		25	
Chloroethane	ug/m3	ND	<0.37		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	1.2	1.1	9	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Cyclohexane	ug/m3	ND	<0.51		25	
Dibromochloromethane	ug/m3	ND	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.63		25	
Ethanol	ug/m3	5.1	4.1	21	25	
Ethyl acetate	ug/m3	ND	<0.27		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.8		25	
m&p-Xylene	ug/m3	ND	<1.0		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.95		25	
Methylene Chloride	ug/m3	ND	2.7J		25	
n-Heptane	ug/m3	ND	<0.55		25	
n-Hexane	ug/m3	ND	0.78J		25	
Naphthalene	ug/m3	ND	<1.9		25	
o-Xylene	ug/m3	ND	<0.50		25	
Propylene	ug/m3	ND	<0.20		25	
Styrene	ug/m3	ND	<0.50		25	
Tetrachloroethene	ug/m3	ND	<0.45		25	
Tetrahydrofuran	ug/m3	ND	<0.38		25	
Toluene	ug/m3	ND	0.58J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.63		25	
Trichloroethene	ug/m3	ND	<0.36		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.39		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512035

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10512035001	**IA-14**	TO-15	666850		
10512035002	**IA-5**	TO-15	666850		
10512035003	**IA-19**	TO-15	666850		
10512035004	**IA-20**	TO-15	666850		
10512035005	**IA-12**	TO-15	666850		
10512035006	**IA-21**	TO-15	666850		

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

40436

Page: 1 of 1

Section A Required Client Information:

Company: KEY
Address: 735 N Water Milwaukee, WI
Email To: tschoen@keyengineering.com
Phone: 414.224.8300 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Toni Schoen
Copy To:
Purchase Order No.:
Project Name: Schaefer Brush
Project Number: 1004-1204-0002

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 34194

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State:

Reporting Units: ug/m³ mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE - END/GRAB DATE	COMPOSITE - END/GRAB TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	IA-14			3/16	800	3/16	1552	30	4	23100299						X					001
2	IA-5				803		1523	28	6	08000382						X					002
3	IA-19				805		1540	30	7	20951671						X					003
4	IA-20				807		1525	28	6	33451899						X					004
5	IA-12				813		1531	26	4	12382020						X					005
6	IA-21				810		1553	30	7	33461073						X					006
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10512035

10512035

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	3/16	1700	[signature] Pace	3/17/2020	1500

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Crowe

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 3/16/20

SAMPLE CONDITIONS

	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
AMB		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N
		Y/N	Y/N	Y/N

Page 25 of 27

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt **Client Name:** Key **Project #:**

WO#: 10512035

PM: KNH **Due Date: 03/31/20**

CLIENT: Key Eng.

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial **See Exception** ☒

Tracking Number:

Custody Seal on Cooler/Box Present? ☐Yes ☒No **Seals Intact?** ☐Yes ☒No

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☒Foam ☐None ☐Tin Can ☐Other: **Temp Blank rec:** ☐Yes ☒No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** — **Thermometer Used:** ☐G87A9170600254 ☐G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** — **Date & Initials of Person Examining Contents:** GNZ 8/17/2020

Type of ice Received ☐Blue ☐Wet ☒None

		Comments:
Chain of Custody Present?	☒Yes ☐No	1.
Chain of Custody Filled Out?	☒Yes ☐No	2.
Chain of Custody Relinquished?	☒Yes ☐No	3.
Sampler Name and/or Signature on COC?	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time?	☒Yes ☐No	5.
Short Hold Time Analysis (<72 hr)?	☐Yes ☒No	6.
Rush Turn Around Time Requested?	☐Yes ☒No	7.
Sufficient Volume?	☒Yes ☐No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☒Yes ☐No ☒Yes ☐No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☒Yes ☐No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☒Yes ☐No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☒Yes ☐No	13.

Gauge # ☐10AIR26 ☐10AIR34 ☐10AIR35 ☐4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA-14	2310	0299	-6	+5					
IA-5	0800	0372	-8	+5					
IA-19	2095	1671	-7	+5					
IA-20	3345	1899	-7	+5					
IA-12	1238	2020	-8	+5					
IA-21	3346	1073	-6	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Kirsten Hoffberg **Date:** 3/18/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical®	Document Name: **SCUR Exception Form**	Document Revised: 06Feb2020 Page 1 of 1
	Document No.: **F-MN-C-298-Rev.03**	Pace Analytical Services - **Minneapolis**

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
1093 0285 8767	
" " 8778	
" " 8745	
" " 8756	

Other Issues		
Issue Type: **Sample ID**	**Container Type**	**# of Containers**

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

April 01, 2020

Toni Schoen
Key Engineering
735 N. Water St.
Milwaukee, WI 53202

RE: Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Dear Toni Schoen:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

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

Sincerely,

Kirsten Hogberg
kirsten.hogberg@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Valerie Collins, Key Engineering Milwaukee

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

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1700 Elm Street - Suite 200
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(612)607-1700

SAMPLE SUMMARY

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10512592001	**IA-22**	Air	03/19/20 04:05	03/23/20 11:40
10512592002	**IA-23**	Air	03/19/20 04:06	03/23/20 11:40
10512592003	**IA-24**	Air	03/19/20 04:07	03/23/20 11:40

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SAMPLE ANALYTE COUNT

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10512592001	**IA-22**	TO-15	AFV	61	PASI-M
10512592002	**IA-23**	TO-15	AFV	61	PASI-M
10512592003	**IA-24**	TO-15	AFV	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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Minneapolis, MN 55414
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SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512592001	**IA-22**					
TO-15	Acetone	26.1	ug/m3	4.4	03/31/20 16:57	
TO-15	Benzene	0.59	ug/m3	0.59	03/31/20 16:57	
TO-15	2-Butanone (MEK)	7.4	ug/m3	5.5	03/31/20 16:57	
TO-15	Chloromethane	0.56J	ug/m3	0.77	03/31/20 16:57	
TO-15	1,4-Dichlorobenzene	5.0J	ug/m3	5.6	03/31/20 16:57	
TO-15	Dichlorodifluoromethane	1.9	ug/m3	1.8	03/31/20 16:57	
TO-15	Ethanol	675	ug/m3	3.5	03/31/20 16:57	E
TO-15	Ethyl acetate	1.6	ug/m3	1.3	03/31/20 16:57	
TO-15	Ethylbenzene	0.89J	ug/m3	1.6	03/31/20 16:57	
TO-15	n-Heptane	0.74J	ug/m3	1.5	03/31/20 16:57	
TO-15	n-Hexane	1.1J	ug/m3	1.3	03/31/20 16:57	
TO-15	Methylene Chloride	14.0	ug/m3	6.5	03/31/20 16:57	
TO-15	2-Propanol	7.3	ug/m3	4.6	03/31/20 16:57	
TO-15	Styrene	2.2	ug/m3	1.6	03/31/20 16:57	
TO-15	Tetrachloroethene	5.9	ug/m3	1.3	03/31/20 16:57	
TO-15	Tetrahydrofuran	2.8	ug/m3	1.1	03/31/20 16:57	
TO-15	Toluene	45.4	ug/m3	1.4	03/31/20 16:57	
TO-15	Trichloroethene	1.6	ug/m3	1.0	03/31/20 16:57	
TO-15	Trichlorofluoromethane	0.90J	ug/m3	2.1	03/31/20 16:57	
TO-15	1,2,4-Trimethylbenzene	0.97J	ug/m3	1.8	03/31/20 16:57	
TO-15	m&p-Xylene	2.5J	ug/m3	3.2	03/31/20 16:57	
TO-15	o-Xylene	0.89J	ug/m3	1.6	03/31/20 16:57	
10512592002	**IA-23**					
TO-15	Acetone	23.6	ug/m3	4.6	03/31/20 17:54	
TO-15	Benzene	0.47J	ug/m3	0.62	03/31/20 17:54	
TO-15	2-Butanone (MEK)	5.5J	ug/m3	5.8	03/31/20 17:54	
TO-15	Chloromethane	0.52J	ug/m3	0.81	03/31/20 17:54	
TO-15	1,4-Dichlorobenzene	5.0J	ug/m3	5.9	03/31/20 17:54	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.9	03/31/20 17:54	
TO-15	Ethanol	943	ug/m3	3.7	03/31/20 17:54	E
TO-15	Ethyl acetate	1.0J	ug/m3	1.4	03/31/20 17:54	
TO-15	n-Hexane	1.6	ug/m3	1.4	03/31/20 17:54	
TO-15	Methylene Chloride	25.3	ug/m3	6.8	03/31/20 17:54	
TO-15	2-Propanol	4.3J	ug/m3	4.8	03/31/20 17:54	
TO-15	Styrene	2.1	ug/m3	1.7	03/31/20 17:54	
TO-15	Tetrachloroethene	5.0	ug/m3	1.3	03/31/20 17:54	
TO-15	Toluene	35.0	ug/m3	1.5	03/31/20 17:54	
TO-15	Trichloroethene	1.6	ug/m3	1.0	03/31/20 17:54	
TO-15	Trichlorofluoromethane	1.2J	ug/m3	2.2	03/31/20 17:54	
TO-15	m&p-Xylene	1.8J	ug/m3	3.4	03/31/20 17:54	
TO-15	o-Xylene	0.68J	ug/m3	1.7	03/31/20 17:54	
10512592003	**IA-24**					
TO-15	Acetone	21.8	ug/m3	4.6	03/31/20 18:50	
TO-15	Benzene	1.0	ug/m3	0.62	03/31/20 18:50	
TO-15	2-Butanone (MEK)	3.4J	ug/m3	5.8	03/31/20 18:50	
TO-15	Chloromethane	0.66J	ug/m3	0.81	03/31/20 18:50	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

SUMMARY OF DETECTION

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
10512592003	**IA-24**					
TO-15	1,4-Dichlorobenzene	3.7J	ug/m3	5.9	03/31/20 18:50	
TO-15	Dichlorodifluoromethane	2.0	ug/m3	1.9	03/31/20 18:50	
TO-15	Ethanol	692	ug/m3	3.7	03/31/20 18:50	E
TO-15	Ethyl acetate	1.6	ug/m3	1.4	03/31/20 18:50	
TO-15	Ethylbenzene	0.76J	ug/m3	1.7	03/31/20 18:50	
TO-15	n-Heptane	0.92J	ug/m3	1.6	03/31/20 18:50	
TO-15	n-Hexane	1.7	ug/m3	1.4	03/31/20 18:50	
TO-15	Methylene Chloride	8.3	ug/m3	6.8	03/31/20 18:50	
TO-15	2-Propanol	6.1	ug/m3	4.8	03/31/20 18:50	
TO-15	Styrene	6.9	ug/m3	1.7	03/31/20 18:50	
TO-15	Tetrachloroethene	9.1	ug/m3	1.3	03/31/20 18:50	
TO-15	Tetrahydrofuran	1.2J	ug/m3	1.2	03/31/20 18:50	
TO-15	Toluene	31.6	ug/m3	1.5	03/31/20 18:50	
TO-15	Trichloroethene	1.3	ug/m3	1.0	03/31/20 18:50	
TO-15	m&p-Xylene	2.5J	ug/m3	3.4	03/31/20 18:50	
TO-15	o-Xylene	1.1J	ug/m3	1.7	03/31/20 18:50	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Sample: IA-22 **Lab ID: 10512592001** Collected: 03/19/20 04:05 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**26.1**	ug/m3	4.4	2.2	1.83		03/31/20 16:57	67-64-1	
Benzene	**0.59**	ug/m3	0.59	0.28	1.83		03/31/20 16:57	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		03/31/20 16:57	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		03/31/20 16:57	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		03/31/20 16:57	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		03/31/20 16:57	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		03/31/20 16:57	106-99-0	
2-Butanone (MEK)	**7.4**	ug/m3	5.5	0.68	1.83		03/31/20 16:57	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		03/31/20 16:57	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		03/31/20 16:57	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		03/31/20 16:57	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		03/31/20 16:57	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		03/31/20 16:57	67-66-3	
Chloromethane	**0.56J**	ug/m3	0.77	0.29	1.83		03/31/20 16:57	74-87-3	
Cyclohexane	**<0.65**	ug/m3	3.2	0.65	1.83		03/31/20 16:57	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		03/31/20 16:57	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		03/31/20 16:57	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		03/31/20 16:57	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.2	1.1	1.83		03/31/20 16:57	541-73-1	
1,4-Dichlorobenzene	**5.0J**	ug/m3	5.6	1.8	1.83		03/31/20 16:57	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.8	0.54	1.83		03/31/20 16:57	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		03/31/20 16:57	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		03/31/20 16:57	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		03/31/20 16:57	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		03/31/20 16:57	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		03/31/20 16:57	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		03/31/20 16:57	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		03/31/20 16:57	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	1.7	0.81	1.83		03/31/20 16:57	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		03/31/20 16:57	76-14-2	
Ethanol	**675**	ug/m3	3.5	1.5	1.83		03/31/20 16:57	64-17-5	E
Ethyl acetate	**1.6**	ug/m3	1.3	0.35	1.83		03/31/20 16:57	141-78-6	
Ethylbenzene	**0.89J**	ug/m3	1.6	0.56	1.83		03/31/20 16:57	100-41-4	
4-Ethyltoluene	**<1.0**	ug/m3	4.6	1.0	1.83		03/31/20 16:57	622-96-8	
n-Heptane	**0.74J**	ug/m3	1.5	0.70	1.83		03/31/20 16:57	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		03/31/20 16:57	87-68-3	
n-Hexane	**1.1J**	ug/m3	1.3	0.57	1.83		03/31/20 16:57	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		03/31/20 16:57	591-78-6	
Methylene Chloride	**14.0**	ug/m3	6.5	2.2	1.83		03/31/20 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		03/31/20 16:57	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		03/31/20 16:57	1634-04-4	
Naphthalene	**<2.4**	ug/m3	4.9	2.4	1.83		03/31/20 16:57	91-20-3	
2-Propanol	**7.3**	ug/m3	4.6	1.3	1.83		03/31/20 16:57	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		03/31/20 16:57	115-07-1	
Styrene	**2.2**	ug/m3	1.6	0.63	1.83		03/31/20 16:57	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Sample: IA-22 **Lab ID: 10512592001** Collected: 03/19/20 04:05 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		03/31/20 16:57	79-34-5	
Tetrachloroethene	**5.9**	ug/m3	1.3	0.57	1.83		03/31/20 16:57	127-18-4	
Tetrahydrofuran	**2.8**	ug/m3	1.1	0.48	1.83		03/31/20 16:57	109-99-9	
Toluene	**45.4**	ug/m3	1.4	0.64	1.83		03/31/20 16:57	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		03/31/20 16:57	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		03/31/20 16:57	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		03/31/20 16:57	79-00-5	
Trichloroethene	**1.6**	ug/m3	1.0	0.46	1.83		03/31/20 16:57	79-01-6	
Trichlorofluoromethane	**0.90J**	ug/m3	2.1	0.67	1.83		03/31/20 16:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		03/31/20 16:57	76-13-1	
1,2,4-Trimethylbenzene	**0.97J**	ug/m3	1.8	0.83	1.83		03/31/20 16:57	95-63-6	
1,3,5-Trimethylbenzene	**<0.73**	ug/m3	1.8	0.73	1.83		03/31/20 16:57	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		03/31/20 16:57	108-05-4	
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		03/31/20 16:57	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	3.2	1.3	1.83		03/31/20 16:57	179601-23-1	
o-Xylene	**0.89J**	ug/m3	1.6	0.63	1.83		03/31/20 16:57	95-47-6	

Sample: IA-23 **Lab ID: 10512592002** Collected: 03/19/20 04:06 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**23.6**	ug/m3	4.6	2.3	1.92		03/31/20 17:54	67-64-1	
Benzene	**0.47J**	ug/m3	0.62	0.29	1.92		03/31/20 17:54	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		03/31/20 17:54	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		03/31/20 17:54	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		03/31/20 17:54	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		03/31/20 17:54	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		03/31/20 17:54	106-99-0	
2-Butanone (MEK)	**5.5J**	ug/m3	5.8	0.71	1.92		03/31/20 17:54	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		03/31/20 17:54	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		03/31/20 17:54	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		03/31/20 17:54	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		03/31/20 17:54	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		03/31/20 17:54	67-66-3	
Chloromethane	**0.52J**	ug/m3	0.81	0.30	1.92		03/31/20 17:54	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		03/31/20 17:54	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		03/31/20 17:54	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		03/31/20 17:54	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/31/20 17:54	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		03/31/20 17:54	541-73-1	
1,4-Dichlorobenzene	**5.0J**	ug/m3	5.9	1.9	1.92		03/31/20 17:54	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Sample: IA-23 **Lab ID: 10512592002** Collected: 03/19/20 04:06 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Dichlorodifluoromethane	**2.1**	ug/m3	1.9	0.56	1.92		03/31/20 17:54	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		03/31/20 17:54	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		03/31/20 17:54	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		03/31/20 17:54	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		03/31/20 17:54	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		03/31/20 17:54	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		03/31/20 17:54	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		03/31/20 17:54	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		03/31/20 17:54	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		03/31/20 17:54	76-14-2	
Ethanol	**943**	ug/m3	3.7	1.6	1.92		03/31/20 17:54	64-17-5	E
Ethyl acetate	**1.0J**	ug/m3	1.4	0.36	1.92		03/31/20 17:54	141-78-6	
Ethylbenzene	**<0.59**	ug/m3	1.7	0.59	1.92		03/31/20 17:54	100-41-4	
4-Ethyltoluene	**<1.1**	ug/m3	4.8	1.1	1.92		03/31/20 17:54	622-96-8	
n-Heptane	**<0.73**	ug/m3	1.6	0.73	1.92		03/31/20 17:54	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		03/31/20 17:54	87-68-3	
n-Hexane	**1.6**	ug/m3	1.4	0.60	1.92		03/31/20 17:54	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		03/31/20 17:54	591-78-6	
Methylene Chloride	**25.3**	ug/m3	6.8	2.3	1.92		03/31/20 17:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		03/31/20 17:54	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		03/31/20 17:54	1634-04-4	
Naphthalene	**<2.5**	ug/m3	5.1	2.5	1.92		03/31/20 17:54	91-20-3	
2-Propanol	**4.3J**	ug/m3	4.8	1.3	1.92		03/31/20 17:54	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		03/31/20 17:54	115-07-1	
Styrene	**2.1**	ug/m3	1.7	0.66	1.92		03/31/20 17:54	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		03/31/20 17:54	79-34-5	
Tetrachloroethene	**5.0**	ug/m3	1.3	0.60	1.92		03/31/20 17:54	127-18-4	
Tetrahydrofuran	**<0.50**	ug/m3	1.2	0.50	1.92		03/31/20 17:54	109-99-9	
Toluene	**35.0**	ug/m3	1.5	0.67	1.92		03/31/20 17:54	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		03/31/20 17:54	120-82-1	
1,1,1-Trichloroethane	**<0.59**	ug/m3	2.1	0.59	1.92		03/31/20 17:54	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		03/31/20 17:54	79-00-5	
Trichloroethene	**1.6**	ug/m3	1.0	0.49	1.92		03/31/20 17:54	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.2	0.70	1.92		03/31/20 17:54	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.0	1.1	1.92		03/31/20 17:54	76-13-1	
1,2,4-Trimethylbenzene	**<0.87**	ug/m3	1.9	0.87	1.92		03/31/20 17:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.77**	ug/m3	1.9	0.77	1.92		03/31/20 17:54	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		03/31/20 17:54	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		03/31/20 17:54	75-01-4	
m&p-Xylene	**1.8J**	ug/m3	3.4	1.3	1.92		03/31/20 17:54	179601-23-1	
o-Xylene	**0.68J**	ug/m3	1.7	0.66	1.92		03/31/20 17:54	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Sample: IA-24 **Lab ID: 10512592003** Collected: 03/19/20 04:07 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
Acetone	**21.8**	ug/m3	4.6	2.3	1.92		03/31/20 18:50	67-64-1	
Benzene	**1.0**	ug/m3	0.62	0.29	1.92		03/31/20 18:50	71-43-2	
Benzyl chloride	**<2.3**	ug/m3	5.0	2.3	1.92		03/31/20 18:50	100-44-7	
Bromodichloromethane	**<0.70**	ug/m3	2.6	0.70	1.92		03/31/20 18:50	75-27-4	
Bromoform	**<2.7**	ug/m3	10.1	2.7	1.92		03/31/20 18:50	75-25-2	
Bromomethane	**<0.44**	ug/m3	1.5	0.44	1.92		03/31/20 18:50	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.86	0.25	1.92		03/31/20 18:50	106-99-0	
2-Butanone (MEK)	**3.4J**	ug/m3	5.8	0.71	1.92		03/31/20 18:50	78-93-3	
Carbon disulfide	**<0.42**	ug/m3	1.2	0.42	1.92		03/31/20 18:50	75-15-0	
Carbon tetrachloride	**<0.82**	ug/m3	2.5	0.82	1.92		03/31/20 18:50	56-23-5	
Chlorobenzene	**<0.53**	ug/m3	1.8	0.53	1.92		03/31/20 18:50	108-90-7	
Chloroethane	**<0.50**	ug/m3	1.0	0.50	1.92		03/31/20 18:50	75-00-3	
Chloroform	**<0.38**	ug/m3	0.95	0.38	1.92		03/31/20 18:50	67-66-3	
Chloromethane	**0.66J**	ug/m3	0.81	0.30	1.92		03/31/20 18:50	74-87-3	
Cyclohexane	**<0.68**	ug/m3	3.4	0.68	1.92		03/31/20 18:50	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.3	1.4	1.92		03/31/20 18:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.70**	ug/m3	1.5	0.70	1.92		03/31/20 18:50	106-93-4	
1,2-Dichlorobenzene	**<0.96**	ug/m3	2.3	0.96	1.92		03/31/20 18:50	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.3	1.1	1.92		03/31/20 18:50	541-73-1	
1,4-Dichlorobenzene	**3.7J**	ug/m3	5.9	1.9	1.92		03/31/20 18:50	106-46-7	
Dichlorodifluoromethane	**2.0**	ug/m3	1.9	0.56	1.92		03/31/20 18:50	75-71-8	
1,1-Dichloroethane	**<0.43**	ug/m3	1.6	0.43	1.92		03/31/20 18:50	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.79	0.29	1.92		03/31/20 18:50	107-06-2	
1,1-Dichloroethene	**<0.53**	ug/m3	1.5	0.53	1.92		03/31/20 18:50	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/m3	1.5	0.42	1.92		03/31/20 18:50	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.5	0.55	1.92		03/31/20 18:50	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.8	0.44	1.92		03/31/20 18:50	78-87-5	
cis-1,3-Dichloropropene	**<0.58**	ug/m3	1.8	0.58	1.92		03/31/20 18:50	10061-01-5	
trans-1,3-Dichloropropene	**<0.84**	ug/m3	1.8	0.84	1.92		03/31/20 18:50	10061-02-6	
Dichlorotetrafluoroethane	**<0.84**	ug/m3	2.7	0.84	1.92		03/31/20 18:50	76-14-2	
Ethanol	**692**	ug/m3	3.7	1.6	1.92		03/31/20 18:50	64-17-5	E
Ethyl acetate	**1.6**	ug/m3	1.4	0.36	1.92		03/31/20 18:50	141-78-6	
Ethylbenzene	**0.76J**	ug/m3	1.7	0.59	1.92		03/31/20 18:50	100-41-4	
4-Ethyltoluene	**<1.1**	ug/m3	4.8	1.1	1.92		03/31/20 18:50	622-96-8	
n-Heptane	**0.92J**	ug/m3	1.6	0.73	1.92		03/31/20 18:50	142-82-5	
Hexachloro-1,3-butadiene	**<3.8**	ug/m3	10.4	3.8	1.92		03/31/20 18:50	87-68-3	
n-Hexane	**1.7**	ug/m3	1.4	0.60	1.92		03/31/20 18:50	110-54-3	
2-Hexanone	**<1.4**	ug/m3	8.0	1.4	1.92		03/31/20 18:50	591-78-6	
Methylene Chloride	**8.3**	ug/m3	6.8	2.3	1.92		03/31/20 18:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.99**	ug/m3	8.0	0.99	1.92		03/31/20 18:50	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.0	1.3	1.92		03/31/20 18:50	1634-04-4	
Naphthalene	**<2.5**	ug/m3	5.1	2.5	1.92		03/31/20 18:50	91-20-3	
2-Propanol	**6.1**	ug/m3	4.8	1.3	1.92		03/31/20 18:50	67-63-0	
Propylene	**<0.27**	ug/m3	0.67	0.27	1.92		03/31/20 18:50	115-07-1	
Styrene	**6.9**	ug/m3	1.7	0.66	1.92		03/31/20 18:50	100-42-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Sample: IA-24 **Lab ID: 10512592003** Collected: 03/19/20 04:07 Received: 03/23/20 11:40 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15 Pace Analytical Services - Minneapolis								
1,1,2,2-Tetrachloroethane	**<0.59**	ug/m3	1.3	0.59	1.92		03/31/20 18:50	79-34-5	
Tetrachloroethene	**9.1**	ug/m3	1.3	0.60	1.92		03/31/20 18:50	127-18-4	
Tetrahydrofuran	**1.2J**	ug/m3	1.2	0.50	1.92		03/31/20 18:50	109-99-9	
Toluene	**31.6**	ug/m3	1.5	0.67	1.92		03/31/20 18:50	108-88-3	
1,2,4-Trichlorobenzene	**<7.1**	ug/m3	14.5	7.1	1.92		03/31/20 18:50	120-82-1	
1,1,1-Trichloroethane	**<0.59**	ug/m3	2.1	0.59	1.92		03/31/20 18:50	71-55-6	
1,1,2-Trichloroethane	**<0.46**	ug/m3	1.1	0.46	1.92		03/31/20 18:50	79-00-5	
Trichloroethene	**1.3**	ug/m3	1.0	0.49	1.92		03/31/20 18:50	79-01-6	
Trichlorofluoromethane	**<0.70**	ug/m3	2.2	0.70	1.92		03/31/20 18:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.0	1.1	1.92		03/31/20 18:50	76-13-1	
1,2,4-Trimethylbenzene	**<0.87**	ug/m3	1.9	0.87	1.92		03/31/20 18:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.77**	ug/m3	1.9	0.77	1.92		03/31/20 18:50	108-67-8	
Vinyl acetate	**<0.52**	ug/m3	1.4	0.52	1.92		03/31/20 18:50	108-05-4	
Vinyl chloride	**<0.24**	ug/m3	0.50	0.24	1.92		03/31/20 18:50	75-01-4	
m&p-Xylene	**2.5J**	ug/m3	3.4	1.3	1.92		03/31/20 18:50	179601-23-1	
o-Xylene	**1.1J**	ug/m3	1.7	0.66	1.92		03/31/20 18:50	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

QC Batch: 667601
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10512592001, 10512592002, 10512592003

METHOD BLANK: 3579213 Matrix: Air
Associated Lab Samples: 10512592001, 10512592002, 10512592003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	03/31/20 14:04	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	03/31/20 14:04	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	03/31/20 14:04	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	03/31/20 14:04	
1,1-Dichloroethane	ug/m3	<0.22	0.82	03/31/20 14:04	
1,1-Dichloroethene	ug/m3	<0.27	0.81	03/31/20 14:04	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	03/31/20 14:04	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	03/31/20 14:04	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	03/31/20 14:04	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	03/31/20 14:04	
1,2-Dichloroethane	ug/m3	<0.15	0.41	03/31/20 14:04	
1,2-Dichloropropane	ug/m3	<0.23	0.94	03/31/20 14:04	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	03/31/20 14:04	
1,3-Butadiene	ug/m3	<0.13	0.45	03/31/20 14:04	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	03/31/20 14:04	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	03/31/20 14:04	
2-Butanone (MEK)	ug/m3	<0.37	3.0	03/31/20 14:04	
2-Hexanone	ug/m3	<0.74	4.2	03/31/20 14:04	
2-Propanol	ug/m3	<0.70	2.5	03/31/20 14:04	
4-Ethyltoluene	ug/m3	<0.57	2.5	03/31/20 14:04	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	03/31/20 14:04	
Acetone	ug/m3	<1.2	2.4	03/31/20 14:04	
Benzene	ug/m3	<0.15	0.32	03/31/20 14:04	
Benzyl chloride	ug/m3	<1.2	2.6	03/31/20 14:04	
Bromodichloromethane	ug/m3	<0.37	1.4	03/31/20 14:04	
Bromoform	ug/m3	<1.4	5.2	03/31/20 14:04	
Bromomethane	ug/m3	<0.23	0.79	03/31/20 14:04	
Carbon disulfide	ug/m3	<0.22	0.63	03/31/20 14:04	
Carbon tetrachloride	ug/m3	<0.43	1.3	03/31/20 14:04	
Chlorobenzene	ug/m3	<0.28	0.94	03/31/20 14:04	
Chloroethane	ug/m3	<0.26	0.54	03/31/20 14:04	
Chloroform	ug/m3	<0.20	0.50	03/31/20 14:04	
Chloromethane	ug/m3	<0.16	0.42	03/31/20 14:04	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	03/31/20 14:04	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	03/31/20 14:04	
Cyclohexane	ug/m3	<0.35	1.8	03/31/20 14:04	
Dibromochloromethane	ug/m3	<0.72	1.7	03/31/20 14:04	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	03/31/20 14:04	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	03/31/20 14:04	
Ethanol	ug/m3	<0.81	1.9	03/31/20 14:04	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

METHOD BLANK: 3579213 Matrix: Air
Associated Lab Samples: 10512592001, 10512592002, 10512592003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.19	0.73	03/31/20 14:04	
Ethylbenzene	ug/m3	<0.30	0.88	03/31/20 14:04	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	03/31/20 14:04	
m&p-Xylene	ug/m3	<0.70	1.8	03/31/20 14:04	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	03/31/20 14:04	
Methylene Chloride	ug/m3	<1.2	3.5	03/31/20 14:04	
n-Heptane	ug/m3	<0.38	0.83	03/31/20 14:04	
n-Hexane	ug/m3	<0.31	0.72	03/31/20 14:04	
Naphthalene	ug/m3	<1.3	2.7	03/31/20 14:04	
o-Xylene	ug/m3	<0.34	0.88	03/31/20 14:04	
Propylene	ug/m3	<0.14	0.35	03/31/20 14:04	
Styrene	ug/m3	<0.34	0.87	03/31/20 14:04	
Tetrachloroethene	ug/m3	<0.31	0.69	03/31/20 14:04	
Tetrahydrofuran	ug/m3	<0.26	0.60	03/31/20 14:04	
Toluene	ug/m3	<0.35	0.77	03/31/20 14:04	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	03/31/20 14:04	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	03/31/20 14:04	
Trichloroethene	ug/m3	<0.25	0.55	03/31/20 14:04	
Trichlorofluoromethane	ug/m3	<0.37	1.1	03/31/20 14:04	
Vinyl acetate	ug/m3	<0.27	0.72	03/31/20 14:04	
Vinyl chloride	ug/m3	<0.13	0.26	03/31/20 14:04	

LABORATORY CONTROL SAMPLE: 3579214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.7	54.5	96	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	73.4	65.1	89	70-132	
1,1,2-Trichloroethane	ug/m3	57.4	53.6	93	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	81.1	69.7	86	70-130	
1,1-Dichloroethane	ug/m3	43	38.6	90	70-130	
1,1-Dichloroethene	ug/m3	43.2	37.1	86	69-137	
1,2,4-Trichlorobenzene	ug/m3	81.1	67.4	83	70-130	
1,2,4-Trimethylbenzene	ug/m3	52.3	53.1	102	70-137	
1,2-Dibromoethane (EDB)	ug/m3	82.1	79.9	97	70-138	
1,2-Dichlorobenzene	ug/m3	63.2	64.1	102	70-136	
1,2-Dichloroethane	ug/m3	42.8	42.2	99	70-130	
1,2-Dichloropropane	ug/m3	48.8	48.9	100	70-132	
1,3,5-Trimethylbenzene	ug/m3	53	51.4	97	70-136	
1,3-Butadiene	ug/m3	24.6	18.4	75	67-139	
1,3-Dichlorobenzene	ug/m3	60.3	63.3	105	70-138	
1,4-Dichlorobenzene	ug/m3	66	62.5	95	70-145	
2-Butanone (MEK)	ug/m3	30	30.0	100	61-130	
2-Hexanone	ug/m3	37.6	45.4	121	70-138	
2-Propanol	ug/m3	27.5	28.6	104	70-136	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

LABORATORY CONTROL SAMPLE: 3579214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.7	50.2	95	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	42.1	45.4	108	70-134	
Acetone	ug/m3	26.2	22.2	85	59-137	
Benzene	ug/m3	34.4	34.0	99	70-133	
Benzyl chloride	ug/m3	52.4	47.9	91	70-139	
Bromodichloromethane	ug/m3	69.1	69.0	100	70-130	
Bromoform	ug/m3	108	98.2	91	60-140	
Bromomethane	ug/m3	41	31.0	75	70-131	
Carbon disulfide	ug/m3	34.3	33.0	96	70-130	
Carbon tetrachloride	ug/m3	65.5	67.2	102	70-133	
Chlorobenzene	ug/m3	49.5	48.0	97	70-131	
Chloroethane	ug/m3	28	21.0	75	70-141	
Chloroform	ug/m3	50	46.0	92	70-130	
Chloromethane	ug/m3	22.1	21.2	96	64-137	
cis-1,2-Dichloroethene	ug/m3	41.8	38.8	93	70-132	
cis-1,3-Dichloropropene	ug/m3	46	54.7	119	70-138	
Cyclohexane	ug/m3	36.4	33.0	91	70-133	
Dibromochloromethane	ug/m3	88.7	98.4	111	70-139	
Dichlorodifluoromethane	ug/m3	54.9	46.3	84	70-130	
Dichlorotetrafluoroethane	ug/m3	77.9	56.7	73	65-133	
Ethanol	ug/m3	21.1	25.2	120	65-135	
Ethyl acetate	ug/m3	37.7	36.2	96	70-135	
Ethylbenzene	ug/m3	46.3	45.1	97	70-142	
Hexachloro-1,3-butadiene	ug/m3	116	107	92	70-134	
m&p-Xylene	ug/m3	46	44.1	96	70-141	
Methyl-tert-butyl ether	ug/m3	34.9	36.4	105	70-131	
Methylene Chloride	ug/m3	38.8	39.6	102	69-130	
n-Heptane	ug/m3	42.8	39.6	92	70-130	
n-Hexane	ug/m3	36.8	32.5	88	70-131	
Naphthalene	ug/m3	58.3	45.8	79	63-130	
o-Xylene	ug/m3	46.5	42.8	92	70-135	
Propylene	ug/m3	18.3	16.7	91	63-139	
Styrene	ug/m3	45.2	47.4	105	70-143	
Tetrachloroethene	ug/m3	74.9	73.0	97	70-136	
Tetrahydrofuran	ug/m3	29.8	28.5	96	70-137	
Toluene	ug/m3	40.4	40.5	100	70-136	
trans-1,2-Dichloroethene	ug/m3	41.9	39.3	94	70-132	
trans-1,3-Dichloropropene	ug/m3	43.4	53.6	124	70-139	
Trichloroethene	ug/m3	56.7	54.2	96	70-132	
Trichlorofluoromethane	ug/m3	59.6	50.6	85	65-136	
Vinyl acetate	ug/m3	32.5	37.4	115	66-140	
Vinyl chloride	ug/m3	28.5	26.6	93	68-141	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

SAMPLE DUPLICATE: 3580119

Parameter	Units	10512592001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.57	<0.57		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.57	<0.57		25	
1,1,2-Trichloroethane	ug/m3	<0.44	<0.44		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.0	<1.0		25	
1,1-Dichloroethane	ug/m3	<0.41	<0.41		25	
1,1-Dichloroethene	ug/m3	<0.50	<0.50		25	
1,2,4-Trichlorobenzene	ug/m3	<6.8	<6.8		25	
1,2,4-Trimethylbenzene	ug/m3	0.97J	0.85J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.67	<0.67		25	
1,2-Dichlorobenzene	ug/m3	<0.91	<0.91		25	
1,2-Dichloroethane	ug/m3	<0.27	<0.27		25	
1,2-Dichloropropane	ug/m3	<0.42	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	<0.73	<0.73		25	
1,3-Butadiene	ug/m3	<0.23	<0.23		25	
1,3-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
1,4-Dichlorobenzene	ug/m3	5.0J	4.6J		25	
2-Butanone (MEK)	ug/m3	7.4	6.9	6	25	
2-Hexanone	ug/m3	<1.4	<1.4		25	
2-Propanol	ug/m3	7.3	<1.3		25	
4-Ethyltoluene	ug/m3	<1.0	<1.0		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.95	<0.95		25	
Acetone	ug/m3	26.1	23.9	9	25	
Benzene	ug/m3	0.59	0.52J		25	
Benzyl chloride	ug/m3	<2.2	<2.2		25	
Bromodichloromethane	ug/m3	<0.67	<0.67		25	
Bromoform	ug/m3	<2.6	<2.6		25	
Bromomethane	ug/m3	<0.42	<0.42		25	
Carbon disulfide	ug/m3	<0.40	<0.40		25	
Carbon tetrachloride	ug/m3	<0.79	<0.79		25	
Chlorobenzene	ug/m3	<0.50	<0.50		25	
Chloroethane	ug/m3	<0.48	<0.48		25	
Chloroform	ug/m3	<0.36	<0.36		25	
Chloromethane	ug/m3	0.56J	0.56J		25	
cis-1,2-Dichloroethene	ug/m3	<0.40	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	<0.56	<0.56		25	
Cyclohexane	ug/m3	<0.65	<0.65		25	
Dibromochloromethane	ug/m3	<1.3	<1.3		25	
Dichlorodifluoromethane	ug/m3	1.9	2.1	7	25	
Dichlorotetrafluoroethane	ug/m3	<0.80	<0.80		25	
Ethanol	ug/m3	675	657	3	25	E
Ethyl acetate	ug/m3	1.6	1.7	5	25	
Ethylbenzene	ug/m3	0.89J	0.83J		25	
Hexachloro-1,3-butadiene	ug/m3	<3.6	<3.6		25	
m&p-Xylene	ug/m3	2.5J	2.3J		25	
Methyl-tert-butyl ether	ug/m3	<1.2	<1.2		25	
Methylene Chloride	ug/m3	14.0	13.5	4	25	
n-Heptane	ug/m3	0.74J	0.74J		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

SAMPLE DUPLICATE: 3580119

Parameter	Units	10512592001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.1J	1.1J		25	
Naphthalene	ug/m3	<2.4	<2.4		25	
o-Xylene	ug/m3	0.89J	0.82J		25	
Propylene	ug/m3	<0.26	<0.26		25	
Styrene	ug/m3	2.2	2.2	1	25	
Tetrachloroethene	ug/m3	5.9	5.4	8	25	
Tetrahydrofuran	ug/m3	2.8	2.3	18	25	
Toluene	ug/m3	45.4	44.6	2	25	
trans-1,2-Dichloroethene	ug/m3	<0.52	<0.52		25	
trans-1,3-Dichloropropene	ug/m3	<0.81	<0.81		25	
Trichloroethene	ug/m3	1.6	1.3	25	25	
Trichlorofluoromethane	ug/m3	0.90J	<0.67		25	
Vinyl acetate	ug/m3	<0.49	<0.49		25	
Vinyl chloride	ug/m3	<0.23	<0.23		25	

SAMPLE DUPLICATE: 3580120

Parameter	Units	10512592002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.59	<0.59		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.59	<0.59		25	
1,1,2-Trichloroethane	ug/m3	<0.46	<0.46		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.1	<1.1		25	
1,1-Dichloroethane	ug/m3	<0.43	<0.43		25	
1,1-Dichloroethene	ug/m3	<0.53	<0.53		25	
1,2,4-Trichlorobenzene	ug/m3	<7.1	<7.1		25	
1,2,4-Trimethylbenzene	ug/m3	<0.87	<0.87		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.70	<0.70		25	
1,2-Dichlorobenzene	ug/m3	<0.96	<0.96		25	
1,2-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,2-Dichloropropane	ug/m3	<0.44	<0.44		25	
1,3,5-Trimethylbenzene	ug/m3	<0.77	<0.77		25	
1,3-Butadiene	ug/m3	<0.25	<0.25		25	
1,3-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
1,4-Dichlorobenzene	ug/m3	5.0J	4.6J		25	
2-Butanone (MEK)	ug/m3	5.5J	5.6J		25	
2-Hexanone	ug/m3	<1.4	<1.4		25	
2-Propanol	ug/m3	4.3J	4.8J		25	
4-Ethyltoluene	ug/m3	<1.1	<1.1		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.99	<0.99		25	
Acetone	ug/m3	23.6	25.0	6	25	
Benzene	ug/m3	0.47J	0.44J		25	
Benzyl chloride	ug/m3	<2.3	<2.3		25	
Bromodichloromethane	ug/m3	<0.70	<0.70		25	
Bromoform	ug/m3	<2.7	<2.7		25	
Bromomethane	ug/m3	<0.44	<0.44		25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

SAMPLE DUPLICATE: 3580120

Parameter	Units	10512592002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.42	<0.42		25	
Carbon tetrachloride	ug/m3	<0.82	<0.82		25	
Chlorobenzene	ug/m3	<0.53	<0.53		25	
Chloroethane	ug/m3	<0.50	<0.50		25	
Chloroform	ug/m3	<0.38	<0.38		25	
Chloromethane	ug/m3	0.52J	0.46J		25	
cis-1,2-Dichloroethene	ug/m3	<0.42	<0.42		25	
cis-1,3-Dichloropropene	ug/m3	<0.58	<0.58		25	
Cyclohexane	ug/m3	<0.68	<0.68		25	
Dibromochloromethane	ug/m3	<1.4	<1.4		25	
Dichlorodifluoromethane	ug/m3	2.1	2.1	1	25	
Dichlorotetrafluoroethane	ug/m3	<0.84	<0.84		25	
Ethanol	ug/m3	943	923	2	25	E
Ethyl acetate	ug/m3	1.0J	1.2J		25	
Ethylbenzene	ug/m3	<0.59	0.63J		25	
Hexachloro-1,3-butadiene	ug/m3	<3.8	<3.8		25	
m&p-Xylene	ug/m3	1.8J	1.6J		25	
Methyl-tert-butyl ether	ug/m3	<1.3	<1.3		25	
Methylene Chloride	ug/m3	25.3	25.9	2	25	
n-Heptane	ug/m3	<0.73	0.79J		25	
n-Hexane	ug/m3	1.6	1.6	1	25	
Naphthalene	ug/m3	<2.5	<2.5		25	
o-Xylene	ug/m3	0.68J	<0.66		25	
Propylene	ug/m3	<0.27	<0.27		25	
Styrene	ug/m3	2.1	2.0	6	25	
Tetrachloroethene	ug/m3	5.0	4.9	1	25	
Tetrahydrofuran	ug/m3	<0.50	<0.50		25	
Toluene	ug/m3	35.0	34.9	0	25	
trans-1,2-Dichloroethene	ug/m3	<0.55	<0.55		25	
trans-1,3-Dichloropropene	ug/m3	<0.84	<0.84		25	
Trichloroethene	ug/m3	1.6	1.5	5	25	
Trichlorofluoromethane	ug/m3	1.2J	<0.70		25	
Vinyl acetate	ug/m3	<0.52	<0.52		25	
Vinyl chloride	ug/m3	<0.24	<0.24		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

E	Analyte concentration exceeded the calibration range. The reported result is estimated.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1604-1204-0002 Schaefer Brush
Pace Project No.: 10512592

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10512592001	**IA-22**	TO-15	667601		
10512592002	**IA-23**	TO-15	667601		
10512592003	**IA-24**	TO-15	667601		

Pace Analytical
www.pacelabs.com

WO# : 10512592

10512592

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: / of /

Section A Required Client Information:

Company: Key Engineering Group
Address: 735 N. Water St. #510
Milw WI 53202
Email To: tschaen@keyengineering.com
Phone: 414.225.0594 Fax: 414.224.8383
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Toni Schaen
Copy To:
Purchase Order No.:
Project Name: Schaefer Brush
Project Number: 1604-1204-0002

Section C Invoice Information:

Attention: Same
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE - DATE	COLLECTED COMPOSITE - TIME	Initial Field reading (-inches of Hg)	Final Field reading (-inches of Hg)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	Pace Lab ID
1	IA-22	6LC		3/19	830	3/19	405	28	7	10571	14071							X			001
2	IA-23	↓		↓	833	↓	406	26	6	33271	14118							X			002
3	IA-24	↓		↓	831	↓	407	30	9	03330322								X			003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Keaton Crowl	3/20	1030	TK Pace	3/23/20	1140

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
-	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Keaton Crowl

SIGNATURE of SAMPLER: Keaton Crowl DATE Signed (MM / DD / YY): 3/20/20

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 19Nov2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.20	Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Key Eng

Project #: **WO#: 10512592**

PM: KNH **Due Date: 04/06/20**

CLIENT: Key Eng.

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial See Exception ☐

Tracking Number: 1Z 83 0285 63 96

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other:_____ **Temp Blank rec:** ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): — **Corrected Temp (°C):** —

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** —

Date & Initials of Person Examining Contents: TK 3/23/20

Type of ice Received ☐ Blue ☐ Wet ☒ None

		Comments:
Chain of Custody Present?	☑ Yes ☐ No	1.
Chain of Custody Filled Out?	☑ Yes ☐ No	2.
Chain of Custody Relinquished?	☑ Yes ☐ No	3.
Sampler Name and/or Signature on COC?	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes ☐ No	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes ☑ No	6.
Rush Turn Around Time Requested?	☐ Yes ☑ No	7.
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used? **(Tedlar bags not acceptable container for TO-14, TO-15 or APH)** -Pace Containers Used?	☑ Yes ☐ No ☑ Yes ☐ No	9.
Containers Intact? **(visual inspection/no leaks when pressurized)**	☑ Yes ☐ No	10.
Media: (Air Can) Airbag Filter TDT Passive		11. Individually Certified Cans Y (N) (list which samples)
Is sufficient information available to reconcile samples to the COC?	☑ Yes ☐ No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	☑ Yes ☐ No	13.

Gauge # ☐ 10AIR26 ☒ 10AIR34 ☐ 10AIR35 ☐ 4097

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
IA - 22	1057	1107	-8	-5					
IA - 23	3327	1418	-9	-5					
IA - 24	0333	0322	-4	-5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 3/23/2020

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Attachment 3

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-179723-1
Client Project/Site: Schaefer Brush - 1604-1204-0002

For:
Key Engineering Group, Ltd.
735 North Water Street
Suite 510
Milwaukee, Wisconsin 53202

Attn: Toni Schoen

Sandie Fredrick

Authorized for release by:
4/2/2020 9:41:30 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Job ID: 500-179723-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-179723-1

Comments
No additional comments.

Receipt
The samples were received on 3/21/2020 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for 536192 recovered outside control limits for 1,1,1-Trichloroethane. This analyte was biased high in the LCS and was below the reporting limit in the associated samples; therefore, the data have been reported.MW-2 (500-179723-1), MW-3 (500-179723-2), MW-4 (500-179723-3), MW-7 (500-179723-4) and Trip Blank (500-179723-5)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-2 — Lab Sample ID: 500-179723-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.6		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.35	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 500-179723-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.47	J	1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	0.23	J	0.50	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	640		10	3.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 500-179723-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	14		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene	0.36	J	0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 500-179723-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene	2.6		0.50	0.16	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	310		10	3.7	ug/L	10		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-179723-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-179723-1	MW-2	Water	03/19/20 12:15	03/21/20 09:35	
500-179723-2	MW-3	Water	03/19/20 12:00	03/21/20 09:35	
500-179723-3	MW-4	Water	03/19/20 12:30	03/21/20 09:35	
500-179723-4	MW-7	Water	03/19/20 11:45	03/21/20 09:35	
500-179723-5	Trip Blank	Water	03/19/20 00:00	03/21/20 09:35	

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-2
Date Collected: 03/19/20 12:15
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/01/20 00:48	1
Benzene	<0.15		0.50	0.15	ug/L			04/01/20 00:48	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/01/20 00:48	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/01/20 00:48	1
Bromoform	<0.48		1.0	0.48	ug/L			04/01/20 00:48	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/01/20 00:48	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/01/20 00:48	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/01/20 00:48	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/01/20 00:48	1
Chloroform	<0.37		2.0	0.37	ug/L			04/01/20 00:48	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/01/20 00:48	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/01/20 00:48	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/01/20 00:48	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/01/20 00:48	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/01/20 00:48	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/01/20 00:48	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/01/20 00:48	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/01/20 00:48	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/01/20 00:48	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/01/20 00:48	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/01/20 00:48	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/01/20 00:48	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/01/20 00:48	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/01/20 00:48	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/01/20 00:48	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/01/20 00:48	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/01/20 00:48	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/01/20 00:48	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/01/20 00:48	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/01/20 00:48	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/01/20 00:48	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 00:48	1
Styrene	<0.39		1.0	0.39	ug/L			04/01/20 00:48	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 00:48	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/01/20 00:48	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/01/20 00:48	1
Tetrachloroethene	**6.6**		1.0	0.37	ug/L			04/01/20 00:48	1
Toluene	<0.15		0.50	0.15	ug/L			04/01/20 00:48	1

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-2
Date Collected: 03/19/20 12:15
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/01/20 00:48	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/01/20 00:48	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/01/20 00:48	1
1,1,1-Trichloroethane	<0.38	*	1.0	0.38	ug/L			04/01/20 00:48	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/01/20 00:48	1
Trichloroethene	**0.35**	**J**	0.50	0.16	ug/L			04/01/20 00:48	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/01/20 00:48	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/01/20 00:48	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/01/20 00:48	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/01/20 00:48	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/01/20 00:48	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/01/20 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*72 - 124*		*04/01/20 00:48*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 120*		*04/01/20 00:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*04/01/20 00:48*	*1*
Toluene-d8 (Surr)	*104*		*75 - 120*		*04/01/20 00:48*	*1*

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-3
Date Collected: 03/19/20 12:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/01/20 01:13	1
Benzene	<0.15		0.50	0.15	ug/L			04/01/20 01:13	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/01/20 01:13	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/01/20 01:13	1
Bromoform	<0.48		1.0	0.48	ug/L			04/01/20 01:13	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/01/20 01:13	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/01/20 01:13	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/01/20 01:13	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/01/20 01:13	1
Chloroform	<0.37		2.0	0.37	ug/L			04/01/20 01:13	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/01/20 01:13	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/01/20 01:13	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/01/20 01:13	1
cis-1,2-Dichloroethene	**0.47**	**J**	1.0	0.41	ug/L			04/01/20 01:13	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/01/20 01:13	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/01/20 01:13	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/01/20 01:13	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/01/20 01:13	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/01/20 01:13	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/01/20 01:13	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/01/20 01:13	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/01/20 01:13	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/01/20 01:13	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/01/20 01:13	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/01/20 01:13	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/01/20 01:13	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/01/20 01:13	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/01/20 01:13	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/01/20 01:13	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/01/20 01:13	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/01/20 01:13	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 01:13	1
Styrene	<0.39		1.0	0.39	ug/L			04/01/20 01:13	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 01:13	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/01/20 01:13	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/01/20 01:13	1
Toluene	<0.15		0.50	0.15	ug/L			04/01/20 01:13	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/01/20 01:13	1

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-3

Date Collected: 03/19/20 12:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/01/20 01:13	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/01/20 01:13	1
1,1,1-Trichloroethane	<0.38	*	1.0	0.38	ug/L			04/01/20 01:13	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/01/20 01:13	1
Trichloroethene	**0.23**	**J**	0.50	0.16	ug/L			04/01/20 01:13	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/01/20 01:13	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/01/20 01:13	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/01/20 01:13	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/01/20 01:13	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/01/20 01:13	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/01/20 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*04/01/20 01:13*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*04/01/20 01:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*04/01/20 01:13*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/01/20 01:13*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**640**		10	3.7	ug/L			04/01/20 01:38	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*72 - 124*		*04/01/20 01:38*	*10*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*04/01/20 01:38*	*10*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*04/01/20 01:38*	*10*
Toluene-d8 (Surr)	*103*		*75 - 120*		*04/01/20 01:38*	*10*

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-4
Date Collected: 03/19/20 12:30
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/01/20 02:03	1
Benzene	<0.15		0.50	0.15	ug/L			04/01/20 02:03	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/01/20 02:03	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/01/20 02:03	1
Bromoform	<0.48		1.0	0.48	ug/L			04/01/20 02:03	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/01/20 02:03	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/01/20 02:03	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/01/20 02:03	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/01/20 02:03	1
Chloroform	<0.37		2.0	0.37	ug/L			04/01/20 02:03	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/01/20 02:03	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/01/20 02:03	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/01/20 02:03	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/01/20 02:03	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/01/20 02:03	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/01/20 02:03	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/01/20 02:03	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/01/20 02:03	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/01/20 02:03	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:03	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/01/20 02:03	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/01/20 02:03	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/01/20 02:03	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/01/20 02:03	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/01/20 02:03	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/01/20 02:03	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/01/20 02:03	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/01/20 02:03	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/01/20 02:03	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/01/20 02:03	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/01/20 02:03	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:03	1
Styrene	<0.39		1.0	0.39	ug/L			04/01/20 02:03	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:03	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/01/20 02:03	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/01/20 02:03	1
Tetrachloroethene	**14**		1.0	0.37	ug/L			04/01/20 02:03	1
Toluene	<0.15		0.50	0.15	ug/L			04/01/20 02:03	1

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-4
Date Collected: 03/19/20 12:30
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/01/20 02:03	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/01/20 02:03	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/01/20 02:03	1
1,1,1-Trichloroethane	<0.38	*	1.0	0.38	ug/L			04/01/20 02:03	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/01/20 02:03	1
Trichloroethene	**0.36**	**J**	0.50	0.16	ug/L			04/01/20 02:03	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/01/20 02:03	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/01/20 02:03	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:03	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/01/20 02:03	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/01/20 02:03	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/01/20 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*		*04/01/20 02:03*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 120*		*04/01/20 02:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*		*04/01/20 02:03*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*04/01/20 02:03*	*1*

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-7
Date Collected: 03/19/20 11:45
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/01/20 02:28	1
Benzene	<0.15		0.50	0.15	ug/L			04/01/20 02:28	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/01/20 02:28	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/01/20 02:28	1
Bromoform	<0.48		1.0	0.48	ug/L			04/01/20 02:28	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/01/20 02:28	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/01/20 02:28	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/01/20 02:28	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/01/20 02:28	1
Chloroform	<0.37		2.0	0.37	ug/L			04/01/20 02:28	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/01/20 02:28	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/01/20 02:28	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/01/20 02:28	1
cis-1,2-Dichloroethene	**7.0**		1.0	0.41	ug/L			04/01/20 02:28	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/01/20 02:28	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/01/20 02:28	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/01/20 02:28	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/01/20 02:28	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/01/20 02:28	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:28	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/01/20 02:28	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/01/20 02:28	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/01/20 02:28	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/01/20 02:28	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/01/20 02:28	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/01/20 02:28	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/01/20 02:28	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/01/20 02:28	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/01/20 02:28	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/01/20 02:28	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/01/20 02:28	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:28	1
Styrene	<0.39		1.0	0.39	ug/L			04/01/20 02:28	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 02:28	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/01/20 02:28	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/01/20 02:28	1
Toluene	<0.15		0.50	0.15	ug/L			04/01/20 02:28	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/01/20 02:28	1

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-7

Date Collected: 03/19/20 11:45
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/01/20 02:28	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/01/20 02:28	1
1,1,1-Trichloroethane	<0.38	*	1.0	0.38	ug/L			04/01/20 02:28	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/01/20 02:28	1
Trichloroethene	**2.6**		0.50	0.16	ug/L			04/01/20 02:28	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/01/20 02:28	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/01/20 02:28	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/01/20 02:28	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/01/20 02:28	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/01/20 02:28	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/01/20 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*04/01/20 02:28*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 120*		*04/01/20 02:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*04/01/20 02:28*	*1*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/01/20 02:28*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**310**		10	3.7	ug/L			04/01/20 13:28	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*04/01/20 13:28*	*10*
Dibromofluoromethane (Surr)	*93*		*75 - 120*		*04/01/20 13:28*	*10*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*		*04/01/20 13:28*	*10*
Toluene-d8 (Surr)	*102*		*75 - 120*		*04/01/20 13:28*	*10*

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: Trip Blank

Date Collected: 03/19/20 00:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			03/31/20 23:58	1
Benzene	<0.15		0.50	0.15	ug/L			03/31/20 23:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/31/20 23:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/31/20 23:58	1
Bromoform	<0.48		1.0	0.48	ug/L			03/31/20 23:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/31/20 23:58	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			03/31/20 23:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/31/20 23:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/31/20 23:58	1
Chloroform	<0.37		2.0	0.37	ug/L			03/31/20 23:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/31/20 23:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/31/20 23:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/31/20 23:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/31/20 23:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/31/20 23:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/31/20 23:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/31/20 23:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/31/20 23:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/31/20 23:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/31/20 23:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/31/20 23:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/31/20 23:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/31/20 23:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/31/20 23:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/31/20 23:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/31/20 23:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/31/20 23:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/31/20 23:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/31/20 23:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/31/20 23:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:58	1
Styrene	<0.39		1.0	0.39	ug/L			03/31/20 23:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/31/20 23:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/31/20 23:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/31/20 23:58	1
Toluene	<0.15		0.50	0.15	ug/L			03/31/20 23:58	1

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: Trip Blank
Date Collected: 03/19/20 00:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/31/20 23:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/31/20 23:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/31/20 23:58	1
1,1,1-Trichloroethane	<0.38	*	1.0	0.38	ug/L			03/31/20 23:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/31/20 23:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/31/20 23:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/31/20 23:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/31/20 23:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/31/20 23:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/31/20 23:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/31/20 23:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*		*03/31/20 23:58*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*03/31/20 23:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*		*03/31/20 23:58*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*03/31/20 23:58*	*1*

Definitions/Glossary

Client: Key Engineering Group, Ltd. Job ID: 500-179723-1
Project/Site: Schaefer Brush - 1604-1204-0002

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

GC/MS VOA

Analysis Batch: 536192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-179723-1	MW-2	Total/NA	Water	8260B	
500-179723-2	MW-3	Total/NA	Water	8260B	
500-179723-2 - DL	MW-3	Total/NA	Water	8260B	
500-179723-3	MW-4	Total/NA	Water	8260B	
500-179723-4	MW-7	Total/NA	Water	8260B	
500-179723-5	Trip Blank	Total/NA	Water	8260B	
MB 500-536192/6	Method Blank	Total/NA	Water	8260B	
LCS 500-536192/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 536287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-179723-4 - DL	MW-7	Total/NA	Water	8260B	
MB 500-536287/7	Method Blank	Total/NA	Water	8260B	
LCS 500-536287/5	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-179723-1	MW-2	116	100	102	104
500-179723-2	MW-3	111	103	107	101
500-179723-2 - DL	MW-3	109	99	105	103
500-179723-3	MW-4	114	104	108	101
500-179723-4	MW-7	115	103	107	102
500-179723-4 - DL	MW-7	98	93	84	102
500-179723-5	Trip Blank	115	99	102	106
LCS 500-536192/4	Lab Control Sample	100	103	103	100
LCS 500-536287/5	Lab Control Sample	101	92	84	102
MB 500-536192/6	Method Blank	117	99	107	103
MB 500-536287/7	Method Blank	105	97	86	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-536192/6
Matrix: Water
Analysis Batch: 536192

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			03/31/20 23:07	1
Benzene	<0.15		0.50	0.15	ug/L			03/31/20 23:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			03/31/20 23:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			03/31/20 23:07	1
Bromoform	<0.48		1.0	0.48	ug/L			03/31/20 23:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			03/31/20 23:07	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			03/31/20 23:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			03/31/20 23:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			03/31/20 23:07	1
Chloroform	<0.37		2.0	0.37	ug/L			03/31/20 23:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			03/31/20 23:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			03/31/20 23:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			03/31/20 23:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			03/31/20 23:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			03/31/20 23:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			03/31/20 23:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			03/31/20 23:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			03/31/20 23:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			03/31/20 23:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			03/31/20 23:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			03/31/20 23:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			03/31/20 23:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			03/31/20 23:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			03/31/20 23:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			03/31/20 23:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			03/31/20 23:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			03/31/20 23:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			03/31/20 23:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			03/31/20 23:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			03/31/20 23:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:07	1
Styrene	<0.39		1.0	0.39	ug/L			03/31/20 23:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			03/31/20 23:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			03/31/20 23:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			03/31/20 23:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			03/31/20 23:07	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536192/6
Matrix: Water
Analysis Batch: 536192

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			03/31/20 23:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			03/31/20 23:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			03/31/20 23:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			03/31/20 23:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			03/31/20 23:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			03/31/20 23:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			03/31/20 23:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			03/31/20 23:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			03/31/20 23:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			03/31/20 23:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			03/31/20 23:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			03/31/20 23:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			03/31/20 23:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*72 - 124*		*03/31/20 23:07*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 120*		*03/31/20 23:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*03/31/20 23:07*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*03/31/20 23:07*	*1*

Lab Sample ID: LCS 500-536192/4
Matrix: Water
Analysis Batch: 536192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	39.9		ug/L		80	40 - 143
Benzene	50.0	46.7		ug/L		93	70 - 120
Bromobenzene	50.0	47.4		ug/L		95	70 - 122
Bromochloromethane	50.0	51.2		ug/L		102	65 - 122
Bromodichloromethane	50.0	52.3		ug/L		105	69 - 120
Bromoform	50.0	55.0		ug/L		110	56 - 132
Bromomethane	50.0	60.1		ug/L		120	40 - 152
2-Butanone (MEK)	50.0	36.7		ug/L		73	46 - 144
Carbon tetrachloride	50.0	54.6		ug/L		109	59 - 133
Chlorobenzene	50.0	48.3		ug/L		97	70 - 120
Chloroethane	50.0	50.7		ug/L		101	48 - 136
Chloroform	50.0	53.9		ug/L		108	70 - 120
Chloromethane	50.0	44.2		ug/L		88	56 - 152
2-Chlorotoluene	50.0	47.7		ug/L		95	70 - 125
4-Chlorotoluene	50.0	47.0		ug/L		94	68 - 124
cis-1,2-Dichloroethene	50.0	52.7		ug/L		105	70 - 125
cis-1,3-Dichloropropene	50.0	46.1		ug/L		92	64 - 127
Dibromochloromethane	50.0	47.3		ug/L		95	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	37.2		ug/L		74	56 - 123
1,2-Dibromoethane	50.0	49.1		ug/L		98	70 - 125
Dibromomethane	50.0	50.3		ug/L		101	70 - 120
1,2-Dichlorobenzene	50.0	43.0		ug/L		86	70 - 125

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536192/4
Matrix: Water
Analysis Batch: 536192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	44.1		ug/L		88	70 - 125
1,4-Dichlorobenzene	50.0	42.4		ug/L		85	70 - 120
Dichlorodifluoromethane	50.0	50.4		ug/L		101	40 - 159
1,1-Dichloroethane	50.0	48.7		ug/L		97	70 - 125
1,2-Dichloroethane	50.0	48.5		ug/L		97	68 - 127
1,1-Dichloroethene	50.0	51.0		ug/L		102	67 - 122
1,2-Dichloropropane	50.0	43.4		ug/L		87	67 - 130
1,3-Dichloropropane	50.0	49.3		ug/L		99	62 - 136
2,2-Dichloropropane	50.0	62.5		ug/L		125	58 - 139
1,1-Dichloropropene	50.0	50.9		ug/L		102	70 - 121
Ethylbenzene	50.0	50.3		ug/L		101	70 - 123
Hexachlorobutadiene	50.0	70.6		ug/L		141	51 - 150
Isopropylbenzene	50.0	47.5		ug/L		95	70 - 126
Methylene Chloride	50.0	50.7		ug/L		101	69 - 125
Methyl tert-butyl ether	50.0	52.1		ug/L		104	55 - 123
Naphthalene	50.0	35.7		ug/L		71	53 - 144
n-Butylbenzene	50.0	45.6		ug/L		91	68 - 125
N-Propylbenzene	50.0	46.8		ug/L		94	69 - 127
p-Isopropyltoluene	50.0	45.0		ug/L		90	70 - 125
sec-Butylbenzene	50.0	46.2		ug/L		92	70 - 123
Styrene	50.0	47.0		ug/L		94	70 - 120
tert-Butylbenzene	50.0	45.0		ug/L		90	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.4		ug/L		85	62 - 140
Tetrachloroethene	50.0	57.3		ug/L		115	70 - 128
Toluene	50.0	47.2		ug/L		94	70 - 125
trans-1,2-Dichloroethene	50.0	53.9		ug/L		108	70 - 125
trans-1,3-Dichloropropene	50.0	48.9		ug/L		98	62 - 128
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	51 - 145
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	57 - 137
1,1,1-Trichloroethane	50.0	64.3	*	ug/L		129	70 - 125
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	71 - 130
Trichloroethene	50.0	46.6		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	58.2		ug/L		116	55 - 128
1,2,3-Trichloropropane	50.0	44.9		ug/L		90	50 - 133
1,2,4-Trimethylbenzene	50.0	46.2		ug/L		92	70 - 123
1,3,5-Trimethylbenzene	50.0	47.1		ug/L		94	70 - 123
Vinyl chloride	50.0	53.1		ug/L		106	64 - 126
Xylenes, Total	100	101		ug/L		101	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*
Dibromofluoromethane (Surr)	*103*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*
Toluene-d8 (Surr)	*100*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536287/7
Matrix: Water
Analysis Batch: 536287

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1.7		10	1.7	ug/L			04/01/20 10:52	1
Benzene	<0.15		0.50	0.15	ug/L			04/01/20 10:52	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/01/20 10:52	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/01/20 10:52	1
Bromoform	<0.48		1.0	0.48	ug/L			04/01/20 10:52	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/01/20 10:52	1
2-Butanone (MEK)	<2.1		5.0	2.1	ug/L			04/01/20 10:52	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/01/20 10:52	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/01/20 10:52	1
Chloroform	<0.37		2.0	0.37	ug/L			04/01/20 10:52	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/01/20 10:52	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/01/20 10:52	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/01/20 10:52	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/01/20 10:52	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/01/20 10:52	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/01/20 10:52	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/01/20 10:52	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/01/20 10:52	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/01/20 10:52	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/01/20 10:52	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/01/20 10:52	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/01/20 10:52	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/01/20 10:52	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/01/20 10:52	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/01/20 10:52	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/01/20 10:52	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/01/20 10:52	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/01/20 10:52	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/01/20 10:52	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/01/20 10:52	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/01/20 10:52	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 10:52	1
Styrene	<0.39		1.0	0.39	ug/L			04/01/20 10:52	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/01/20 10:52	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/01/20 10:52	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/01/20 10:52	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/01/20 10:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-536287/7
Matrix: Water
Analysis Batch: 536287

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.15		0.50	0.15	ug/L			04/01/20 10:52	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/01/20 10:52	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/01/20 10:52	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/01/20 10:52	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/01/20 10:52	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/01/20 10:52	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/01/20 10:52	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/01/20 10:52	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/01/20 10:52	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/01/20 10:52	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/01/20 10:52	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/01/20 10:52	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/01/20 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*04/01/20 10:52*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 120*		*04/01/20 10:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*		*04/01/20 10:52*	*1*
Toluene-d8 (Surr)	*88*		*75 - 120*		*04/01/20 10:52*	*1*

Lab Sample ID: LCS 500-536287/5
Matrix: Water
Analysis Batch: 536287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	54.9		ug/L		110	40 - 143
Benzene	50.0	49.2		ug/L		98	70 - 120
Bromobenzene	50.0	50.8		ug/L		102	70 - 122
Bromochloromethane	50.0	45.8		ug/L		92	65 - 122
Bromodichloromethane	50.0	44.7		ug/L		89	69 - 120
Bromoform	50.0	43.2		ug/L		86	56 - 132
Bromomethane	50.0	59.4		ug/L		119	40 - 152
2-Butanone (MEK)	50.0	48.0		ug/L		96	46 - 144
Carbon tetrachloride	50.0	42.0		ug/L		84	59 - 133
Chlorobenzene	50.0	46.7		ug/L		93	70 - 120
Chloroethane	50.0	51.9		ug/L		104	48 - 136
Chloroform	50.0	42.8		ug/L		86	70 - 120
Chloromethane	50.0	52.7		ug/L		105	56 - 152
2-Chlorotoluene	50.0	50.7		ug/L		101	70 - 125
4-Chlorotoluene	50.0	50.5		ug/L		101	68 - 124
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	70 - 125
cis-1,3-Dichloropropene	50.0	45.9		ug/L		92	64 - 127
Dibromochloromethane	50.0	45.0		ug/L		90	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	32.7		ug/L		65	56 - 123
1,2-Dibromoethane	50.0	47.7		ug/L		95	70 - 125
Dibromomethane	50.0	44.6		ug/L		89	70 - 120
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-536287/5
Matrix: Water
Analysis Batch: 536287

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 125
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	70 - 120
Dichlorodifluoromethane	50.0	47.1		ug/L		94	40 - 159
1,1-Dichloroethane	50.0	45.1		ug/L		90	70 - 125
1,2-Dichloroethane	50.0	40.2		ug/L		80	68 - 127
1,1-Dichloroethene	50.0	46.9		ug/L		94	67 - 122
1,2-Dichloropropane	50.0	48.0		ug/L		96	67 - 130
1,3-Dichloropropane	50.0	47.9		ug/L		96	62 - 136
2,2-Dichloropropane	50.0	41.2		ug/L		82	58 - 139
1,1-Dichloropropene	50.0	45.3		ug/L		91	70 - 121
Ethylbenzene	50.0	50.5		ug/L		101	70 - 123
Hexachlorobutadiene	50.0	40.2		ug/L		80	51 - 150
Isopropylbenzene	50.0	54.7		ug/L		109	70 - 126
Methylene Chloride	50.0	47.7		ug/L		95	69 - 125
Methyl tert-butyl ether	50.0	39.3		ug/L		79	55 - 123
Naphthalene	50.0	42.5		ug/L		85	53 - 144
n-Butylbenzene	50.0	48.0		ug/L		96	68 - 125
N-Propylbenzene	50.0	53.4		ug/L		107	69 - 127
p-Isopropyltoluene	50.0	48.1		ug/L		96	70 - 125
sec-Butylbenzene	50.0	50.9		ug/L		102	70 - 123
Styrene	50.0	49.1		ug/L		98	70 - 120
tert-Butylbenzene	50.0	48.9		ug/L		98	70 - 121
1,1,1,2-Tetrachloroethane	50.0	44.5		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	57.0		ug/L		114	62 - 140
Tetrachloroethene	50.0	47.1		ug/L		94	70 - 128
Toluene	50.0	50.3		ug/L		101	70 - 125
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	43.1		ug/L		86	62 - 128
1,2,3-Trichlorobenzene	50.0	40.3		ug/L		81	51 - 145
1,2,4-Trichlorobenzene	50.0	43.3		ug/L		87	57 - 137
1,1,1-Trichloroethane	50.0	42.9		ug/L		86	70 - 125
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	71 - 130
Trichloroethene	50.0	46.3		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	45.4		ug/L		91	55 - 128
1,2,3-Trichloropropane	50.0	52.1		ug/L		104	50 - 133
1,2,4-Trimethylbenzene	50.0	49.6		ug/L		99	70 - 123
1,3,5-Trimethylbenzene	50.0	51.2		ug/L		102	70 - 123
Vinyl chloride	50.0	52.3		ug/L		105	64 - 126
Xylenes, Total	100	92.5		ug/L		93	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*
Dibromofluoromethane (Surr)	*92*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*84*		*75 - 126*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Chronicle

Client: Key Engineering Group, Ltd.
Project/Site: Schaefer Brush - 1604-1204-0002

Job ID: 500-179723-1

Client Sample ID: MW-2
Date Collected: 03/19/20 12:15
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536192	04/01/20 00:48	JDD	TAL CHI

Client Sample ID: MW-3
Date Collected: 03/19/20 12:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536192	04/01/20 01:13	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	10	536192	04/01/20 01:38	JDD	TAL CHI

Client Sample ID: MW-4
Date Collected: 03/19/20 12:30
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536192	04/01/20 02:03	JDD	TAL CHI

Client Sample ID: MW-7
Date Collected: 03/19/20 11:45
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536192	04/01/20 02:28	JDD	TAL CHI
Total/NA	Analysis	8260B	DL	10	536287	04/01/20 13:28	JDD	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 03/19/20 00:00
Date Received: 03/21/20 09:35

Lab Sample ID: 500-179723-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	536192	03/31/20 23:58	JDD	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Key Engineering Group, Ltd.
Job ID: 500-179723-1
Project/Site: Schaefer Brush - 1604-1204-0002

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Chain of Custody Record

403972

eurofins | Environment Testing TestAmerica

Address: [illegible]

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TAL-8210

Client Contact	Project Manager: Toni Schoen	Site Contact:	Date: 3/19	COC No:
Company Name: Key Engineering	Tel/Email: tschoen@keyengineering.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: 735 N Water 510	Analysis Turnaround Time			Sampler:
City/State/Zip: Milwaukee, WI 53202	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 414.225.0594	TAT if different from Below _____			Walk-in Client:
Fax: 414.224.8383	☐ 2 weeks			Lab Sampling:
Project Name: Schaefer Brush	☐ 1 week			
Site: 1604-1204-0002	☐ 2 days			Job / SDG No.: 500-179723
P O #	☐ 1 day			

500-179723 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	VOC	Sample Specific Notes:
2 MW-2	3/19	1215	G	W	3			X	
3 MW-3	↓	1200	↓	↓	↓			X	
4 MW-4		1230						X	
5 MW-7		1145						X	
Trip Blank					1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 11 Corr'd: 2.1 | Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kyle Cann	KEY	3/20/1100	[signature]	TA	3-20-20 1100
Relinquished by: [signature]	Company: TA 3-20-20	Date/Time: 1700	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA-CHI	Date/Time: 3/21/20 0935

500-179723 Waybill

ORIGIN ID:RRLA (262) 202-5955
SHIPPING
TESTAMERICA
4125 N 124TH ST

BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 20MAR20
ACTWGT: 15.90 LB
CAD: 525155/CAFE3211

BILL RECIPIENT

TO **SAMPLE RECEIPT**
TESTAMERICA LABS
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-6200
INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0201 **7125 4942 3124**

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO JOTA

60484
IL-US **ORD**

Login Sample Receipt Checklist

Client: Key Engineering Group, Ltd.

Job Number: 500-179723-1

Login Number: 179723
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment 4

PHOTOGRAPH 1:

View of office space looking south.

Office are located on the right side of the photograph. There is a drop ceiling. The cement block firewall that separates the offices from the manufacturing department is on the left side of the photograph.

PHOTOGRAPH 2:

View of office space looking north.

Office are located on the left and right side of the photograph. There is a drop ceiling.

PHOTOGRAPH 3:

View of kitchenette in cafeteria looking west.

No floor drain observed.

PHOTOGRAPH 4:

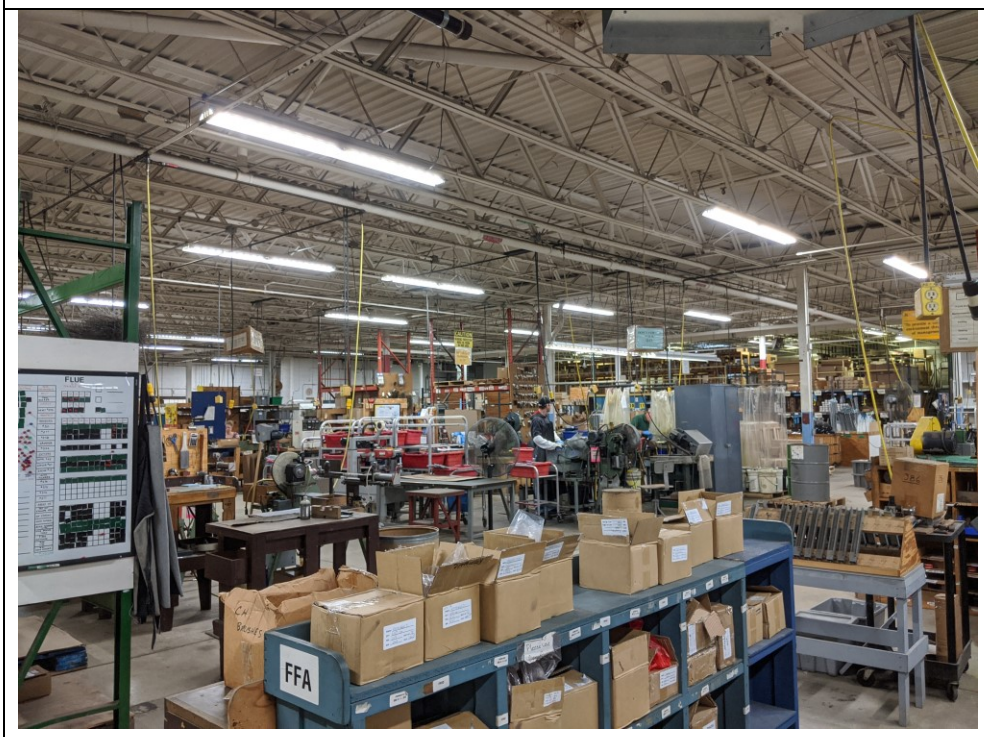
View of medical room in office space.

No floor drain observed.

PHOTOGRAPH 5:

View of restroom.

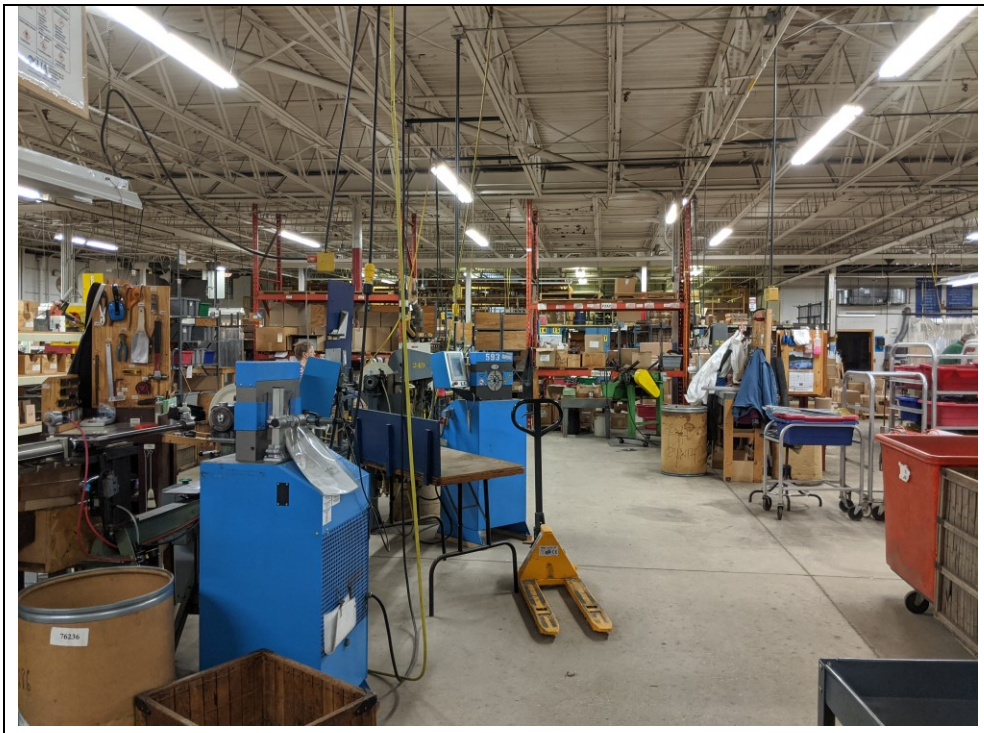
No floor drains present.



PHOTOGRAPH 6:

View of manufacturing department.

Open concept floor plan.



PHOTOGRAPH 7:

View of manufacturing department.

Open concept floor plan.

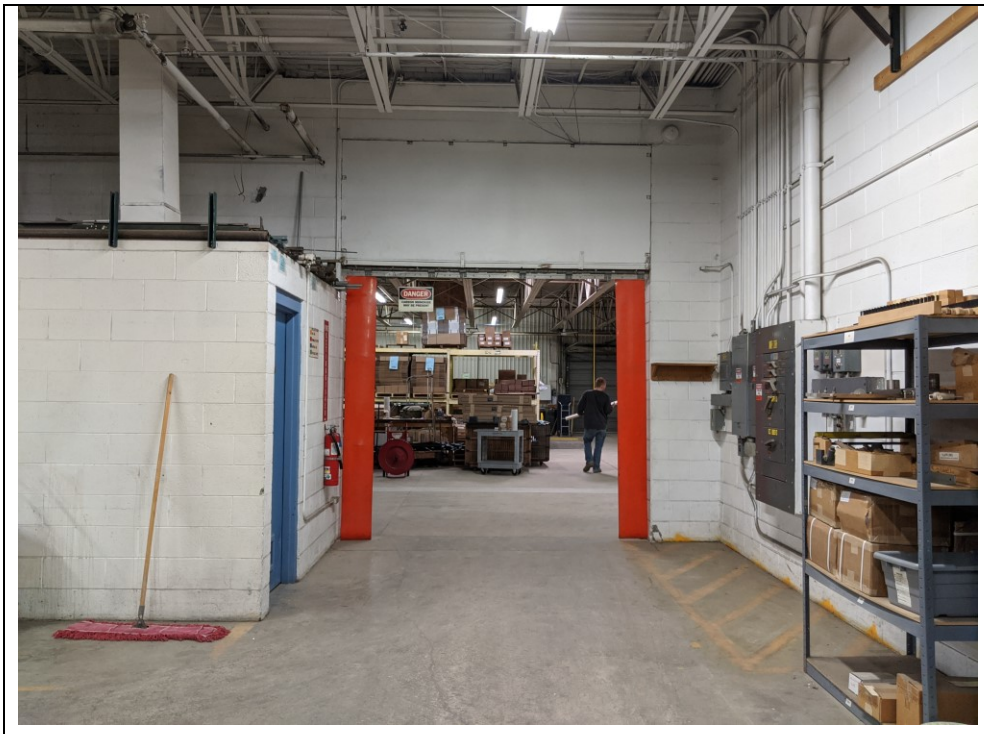
No floor drains observed.

PHOTOGRAPH 8:

View of open entry between manufacturing and shipping departments.

There are two open entries that separate these departments.

No floor drains observed.



PHOTOGRAPH 9:

View of open entry between manufacturing and shipping departments.

There are two open entries that separate these departments.

PHOTOGRAPH 10:

View of shipping department looking north.

Open concept floor plan.

No floor drains observed.

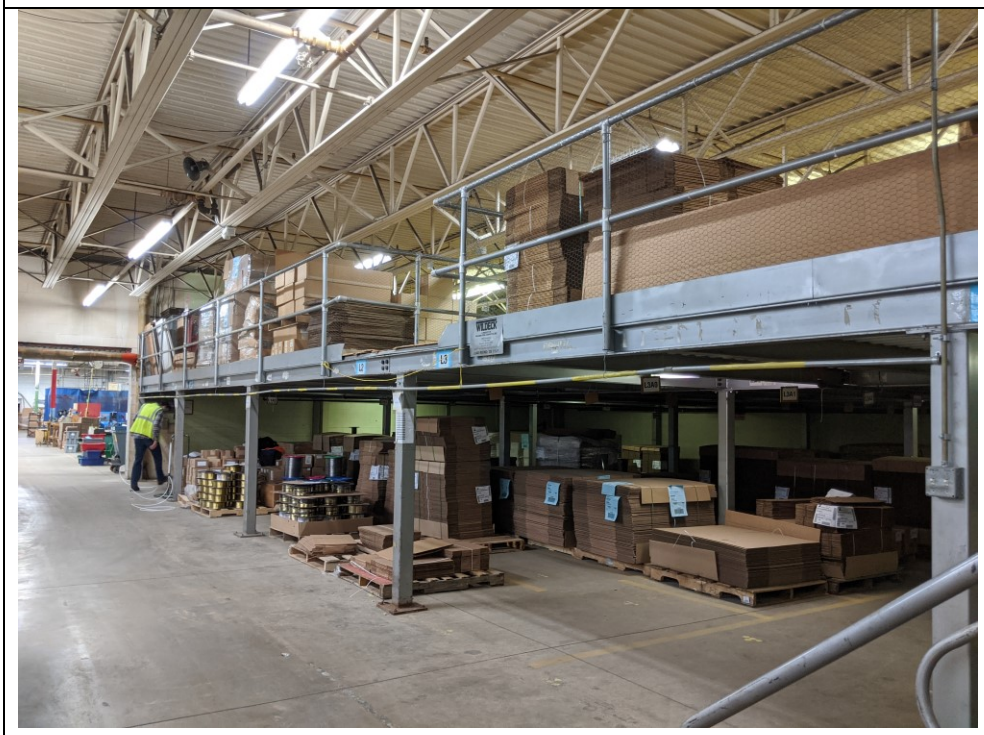
PHOTOGRAPH 11:

View of shipping department.

Open concept floor plan.

No floor drains observed.

New trench from sanitary sewer line replaced (right side of photograph).



PHOTOGRAPH 12:

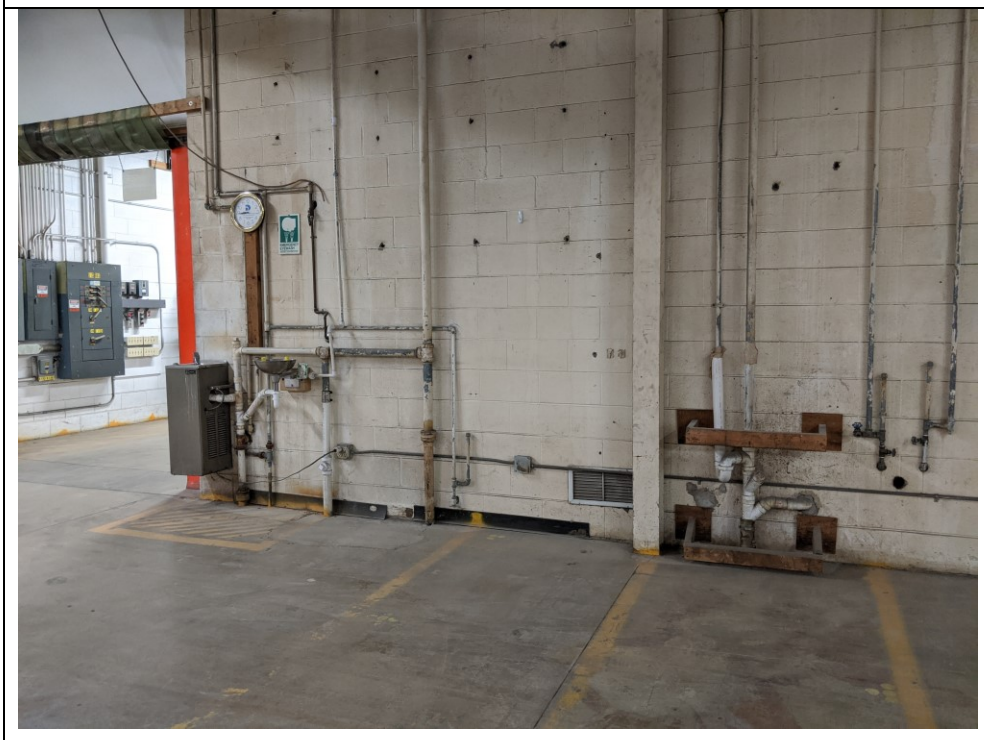
View of mezzanine in shipping department.

No floor drains observed.

PHOTOGRAPH 13:

View of restroom for manufacturing and shipping departments.

Floor drain in shower.



PHOTOGRAPH 14:

Floor penetrations in shipping department.

PHOTOGRAPH 7:

View of cleanout in shipping department.

PHOTOGRAPH 8:

View of sink in closet (former restroom) in manufacturing department.

No floor drain observed.