From: Schroyer, Blaine R. <Blaine.Schroyer@terracon.com>
Sent: Tuesday, February 25, 2020 10:23 AM
To: Egan, Alice M - DNR
Cc: Chabela, Lucas P
Subject: RE: 601 Ryan Street, Pewaukee GLC/NAR request
Attachments: 58197210 EX4 Vapor Sample Locations.pdf

Alice – Sorry for the delay. Mondays…both those locations were just inside an exterior footing walls. See attached.

Blaine R. Schroyer, P.E.
Senior Principal I Office Manager
Terracon
9856 South 57th Street I Franklin, Wisconsin 53132
P (414) 423 0255 I Direct (414) 209 7631 I M (920) 205 0011
Blaine.Schroyer@Terracon.com I www.Terracon.com

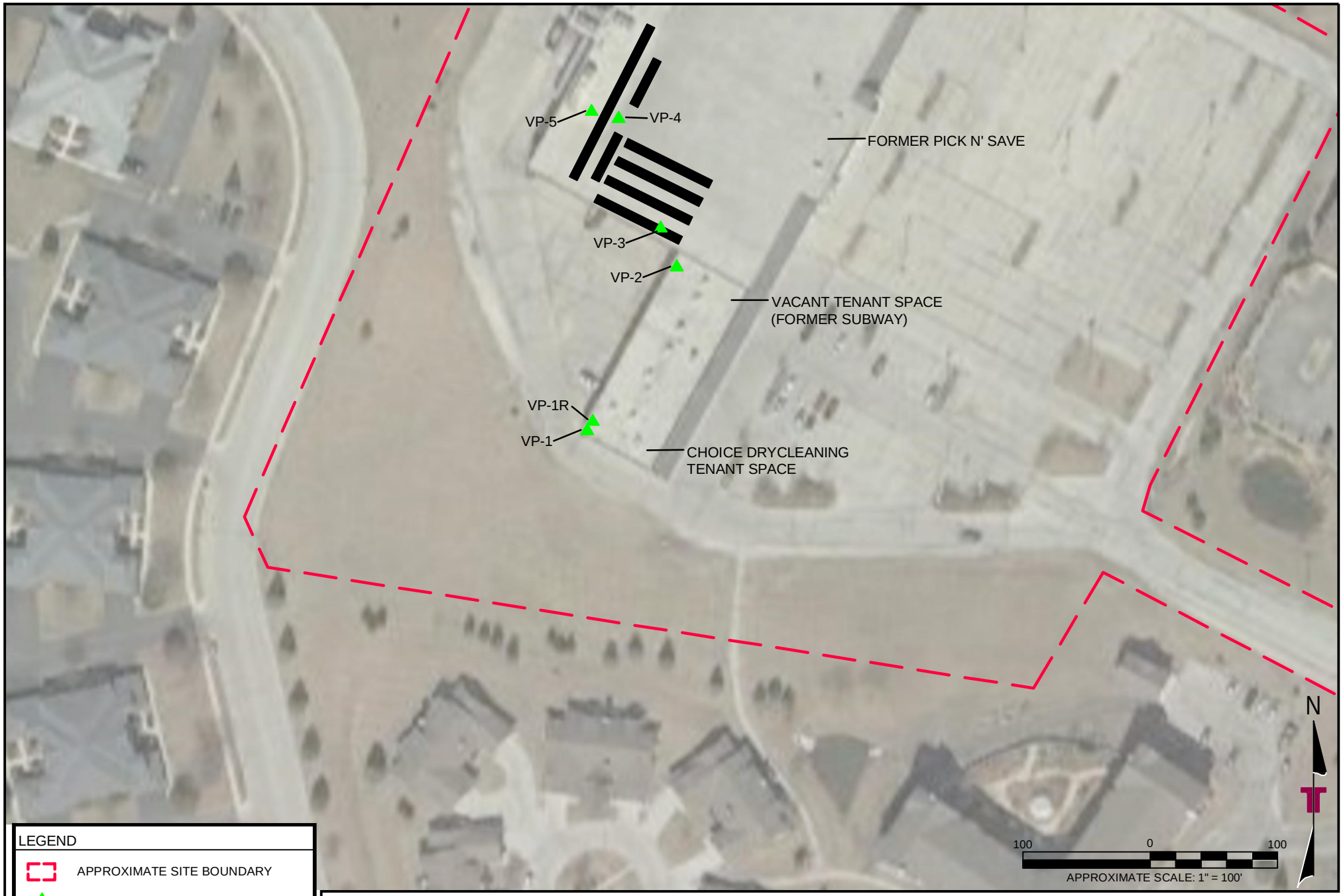
From: Egan, Alice M - DNR <Alice.Egan@wisconsin.gov>
Sent: Monday, February 24, 2020 3:02 PM
To: Schroyer, Blaine R. <Blaine.Schroyer@terracon.com>
Subject: 601 Ryan Street, Pewaukee GLC/NAR request

Hi Blaine,
Where are VP-2 and VP-3 in relation to the outside walls of the building? I am trying to understand where they are in relation to the footing walls.

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Alice Egan
Hydrogeologist
Wisconsin Department of Natural Resources
Bureau for Remediation and Redevelopment
Wisconsin Department of Natural Resources
Phone: 414-263-8626
alice.egan@wisconsin.gov


dnr.wi.gov

LEGEND

- APPROXIMATE SITE BOUNDARY
- SUB-SLAB VAPOR SAMPLE POINT
- APPROXIMATE COOLER / FREEZER LOCATIONS

IMAGE SOURCE: GOOGLE EARTH PRO

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	LPC
Drawn By:	PJS
Checked By:	EMN
Approved By:	BRS

Project No.	58197210
Scale:	AS SHOWN
File No.	58187210C1
Date:	12/2019

Terracon
Consulting Engineers and Scientists
9856 SOUTH 57th STREET FRANKLIN, WI 53132
PH. (414) 423-0255 FAX. (414) 423-0566

VAPOR SAMPLE LOCATIONS (11-20-2019)

LAKE COUNTRY SQUARE
601 RYAN STREET
PEWAUKEE, WISCONSIN

EXHIBIT 4

February 10, 2020

Wisconsin Department of Natural Resources
Southeast Region Office
2300 North Martin Luther King Drive
Milwaukee, Wisconsin 53212

Attention: Jennifer Dorman

Re: **No Action Required Request**
Choice Cleaners – Lake Country Square Mall
601 Ryan Street
Pewaukee, Wisconsin
Terracon Project No. 58197210

Dear Ms. Dorman:

Terracon Consultants, Inc. (Terracon) is submitting the attached Technical Assistance, Environmental Liability Clarification or Post-Closure Modification Request Form 4400-237 and the $700 fee on behalf of Lake Country Square, LLC. We request the Wisconsin Department of Natural Resources (WDNR) consider issue a written response that a "No Action Required" (NAR) determination is appropriate.

Terracon was retained by Lake Country Square, LLC to complete a Limited Site Investigation (LSI) at the referenced site. The LSI was performed following the completion of a Phase I Environmental Site Assessment (ESA) by Terracon, which identified an on-going dry-cleaning operation as a recognized environmental condition (REC). The dry-cleaners was also identified as a controlled REC (CREC) due to residual contamination that was present when investigation was completed and the associated environmental repair program (ERP) case (BRRTS #02-68-226376) was closed in 2002. The LSI was conducted to evaluate soil, groundwater, and sub-slab soil vapor conditions, specifically in the vicinity of the active dry-cleaning operation. Following receipt of the initial vapor results, additional sub-slab soil vapor sampling was performed to confirm the original findings and evaluate soil vapor under other areas of the building.

VOCs were not detected in the soil samples submitted for laboratory analysis. Low concentrations of select VOCs were detected in the groundwater sample collected outside the building, down-gradient from and near the dry-cleaning machine. Comparing these results to the prior data, it does not appear that the continued operation of the dry-cleaners, since investigation was completed in 2002, has further impacted the site.

Several VOCs were detected at concentrations exceeding their respective limits of detection (LOD) in the sub-slab soil vapor samples. However, only dichlorodifluoromethane (a.k.a. Freon-12) was detected at concentrations exceeding its residential vapor risk screening level (VRSL) in the sub-slab soil vapor sample collected beneath the dry-cleaners.

Dichlorodifluoromethane was not detected in soil or groundwater samples at the site. The concentration of dichlorodifluoromethane decreased during the confirmation sampling, but still exceeded its residential VRSL.

Per our discussion with WDNR, dichlorodifluoromethane may be present due to use of foam insulating material installed below grade. Terracon verified that we did not observe any indications of foam when we drilled through the slab to collect the sub-slab soil vapor samples. However, the drill bit we use is only 5/8-inch in diameter, so it is possible there is foam beneath the slab that was not observed in the drill cuttings. We also reached out to the former building owners. One of the owners, Mr. Art Kraemer, contacted Mr. Steve Boysa, who was involved with Redmond Construction when they constructed the building. According to Mr. Boysa, it was common practice to use foam at least along the footing walls. Given the time that has passed, he could not recall the specifics for this building. Mr. Boysa also verified they don't have photographs that might show the foam. Based on his comments, there is a reasonable chance that there was foam used as part of the building components and is the source of the dichlorodifluoromethane in the soil vapor.

On behalf of Lake Country Square, LLC, Terracon recommended reporting these findings to the WDNR. A cover letter, a completed Notification for Hazardous Substance Discharge (Non-Emergency) Form 4400-225, and the LSI Report dated December 9, 2019 were provided to WDNR on December 13, 2019. The letter requested that the WDNR classify the findings as a NAR case. We understand that WDNR has completed their review and upon receipt of this submittal and fee will issue a written response that a NAR determination is appropriate.

We appreciate the opportunity to provide this information to you and we look forward to receiving your letter of concurrence. Please contact us if you have questions regarding the information provided in the report.

Sincerely,

Blaine R. Schroyer, P.E.
Senior Principal/Office Manager

Attachments: WDNR Form 4400-237
$700 Check/WDNR Fee

BRS:brs/N:\Projects\2019\58197210\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\NAR Request.docx

From: Schroyer, Blaine R. <Blaine.Schroyer@terracon.com>
Sent: Monday, February 03, 2020 8:30 AM
To: Egan, Alice M - DNR
Subject: RE: BRRTS Activity 02-68-226376

Thanks.

Blaine R. Schroyer, P.E.
Senior Principal I Office Manager
Terracon
9856 South 57th Street I Franklin, Wisconsin 53132
P (414) 423 0255 I Direct (414) 209 7631 I M (920) 205 0011
Blaine.Schroyer@Terracon.com I www.Terracon.com

From: Egan, Alice M - DNR <Alice.Egan@wisconsin.gov>
Sent: Monday, February 3, 2020 8:30 AM
To: Schroyer, Blaine R. <Blaine.Schroyer@terracon.com>
Subject: RE: BRRTS Activity 02-68-226376

Hi Blaine,
I will let you know this week.

From: Schroyer, Blaine R. <Blaine.Schroyer@terracon.com>
Sent: Saturday, February 01, 2020 12:42 PM
To: Egan, Alice M - DNR <Alice.Egan@wisconsin.gov>
Subject: RE: BRRTS Activity 02-68-226376

Any decision, Alice?

Blaine R. Schroyer, P.E.
Senior Principal I Office Manager
Terracon
9856 South 57th Street I Franklin, Wisconsin 53132
P (414) 423 0255 I Direct (414) 209 7631 I M (920) 205 0011
Blaine.Schroyer@Terracon.com I www.Terracon.com

From: Schroyer, Blaine R.
Sent: Monday, January 27, 2020 2:42 PM
To: Egan, Alice M - DNR <Alice.Egan@wisconsin.gov>
Subject: BRRTS Activity 02-68-226376

Alice – In response to your question regarding whether foam insulation was present beneath the floor slab, Terracon verified that we did not observe any indications of foam when we drilled through the slab to collect the sub-slab soil vapor samples. However, the drill bit we use is only 5/8-inch in diameter, so it is possible there is foam beneath the slab that was not observed in the drill cuttings. We also reached out to the former building owners. One of the owners, Art Kraemer, contacted Steve Boysa, who was involved with Redmond Construction when they constructed the building. According to Steve, it was common practice to use foam at least along the footing walls. Given the time that has passed, he could

not recall the specifics for this building. Steve also verified they don't have any photographs that might show the foam. Based on his comments, there is a reasonable chance that there was foam used as part of the building components. Please let us know if you need any additional information. Thanks for your help with this one.

Blaine R. Schroyer, P.E.
Senior Principal I Office Manager
Terracon
9856 South 57th Street I Franklin, Wisconsin 53132
P (414) 423 0255 I Direct (414) 209 7631 I M (920) 205 0011
Blaine.Schroyer@Terracon.com I www.Terracon.com

December 13, 2019

Wisconsin Department of Natural Resources
Southeast Region Office
2300 North Martin Luther King Drive
Milwaukee, Wisconsin 53212

Attention: Jennifer Dorman

Re: **Notification For Hazardous Substance Discharge**
Choice Cleaners – Lake Country Square Mall
601 Ryan Street
Pewaukee, Wisconsin
Terracon Project No. 58197210

Dear Ms. Dorman:

Terracon Consultants, Inc. (Terracon) was retained by Lake Country Square, LLC to complete a Limited Site Investigation (LSI) at the referenced site. The LSI was performed following the completion of a Phase I Environmental Site Assessment (ESA) by Terracon, which identified an on-going dry-cleaning operation as a recognized environmental condition (REC). The dry-cleaners was also identified as a controlled REC (CREC) due to residual contamination that was present when investigation was completed and the associated environmental repair program (ERP) case (BRRTS #02-68-226376) was closed in 2002. The LSI was conducted to evaluate soil, groundwater, and sub-slab vapor conditions, specifically in the vicinity of the active dry-cleaning operation. Following receipt of the initial vapor results, additional sub-slab vapor sampling was performed to confirm the original findings and evaluate sub-slab soil vapor concentrations under other areas of the building.

VOCs were not detected in the soil samples submitted for laboratory analysis.

Cis-1,2-dichloroethene (DCE) and toluene were detected in the groundwater sample collected outside the building, down-gradient from and near the dry-cleaning machine. However, the toluene concentration was below its NR 140, Wisconsin Administrative Code (WAC), preventive action limit (PAL). The cis-1,2-DCE concentration exceeded its NR 140, WAC, PAL, but cis-1,2-DCE was known to be present in the soil beneath the building when the dry-cleaners was investigated, and the case was closed on July 30, 2002. The cis-1,2-DCE was likely present in the groundwater at that time. Comparing these results to the prior data, it does not appear that the continued operation of the dry-cleaners since investigation was completed in 2002 has further impacted the site.

Several VOCs were detected at concentrations exceeding their respective limits of detection (LOD) in the sub-slab vapor samples. However, only dichlorodifluoromethane (a.k.a. Freon-12) was detected at concentrations exceeding its vapor risk screening levels (VRSL).

Dichlorodifluoromethane is chemically similar to trichlorotrifluoroethane (a.k.a. Freon-113), which is associated with dry-cleaning operations. Dichlorodifluoromethane was not detected in soil or groundwater samples collected at the site, both during this LSI and during the closed ERP case investigation. When additional sub-slab soil vapor sampling was performed, including resampling beneath the dry-cleaner tenant space, the concentration of dichlorodifluoromethane decreased to a concentration below its small commercial VRSL. The site has and will continue to be used for commercial purposes, so the small commercial VRSLs are applicable. Fortunately, the dichlorodifluoromethane concentrations did not exceed any VRSLs in the sub-slab vapor samples collected elsewhere beneath the building.

Terracon recommended reporting these findings to the WDNR. The cis-1,2-DCE was likely present in the groundwater in 2002 when the ERP case was closed. The additional sub-slab soil vapor sampling shows that the concentrations are highly associated with the dry-cleaner operations and dichlorodifluoromethane is chemically similar to trichlorotrifluoroethane, which is associated with dry-cleaning operations. Because the extent of the dichlorodifluoromethane is limited, and it appears the on-going dry-cleaning operations have not further impacted the site, Terracon recommends no further investigation at this time.

We appreciate the opportunity to provide this information to you. Please contact us if you have questions regarding the information we have provided.

Sincerely,
Terracon

Anthony J. LaBrasca
Assistant Scientist

Blaine R. Schroyer, P.E.
Principal/Office Manager

Attachments: Notification for Hazardous Substance Discharge (Non-Emergency) Form 4400-225
LSI Report dated December 9, 2019

AJL/BRS:ajl/N:\Projects\2019\58197210\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Lake Country Square WDNR Release Notification.docx

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

Notification For Hazardous Substance Discharge (Non-Emergency Only)

Form 4400-225 (R 06/17)

Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than $10 nor more than $5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Open Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from **(check one)**:

- ○ Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- ○ Aboveground Petroleum Storage Tank System
- ● Dry Cleaner Facility
- ○ Other - Describe: _____

ATTN DNR: **R & R Program Associate** Date DNR Notified: 12/13/2019

1. Discharge Reported By

Name	Firm	Phone Number (include area code)
Anthony J LaBrasca	Terracon Consultants, Inc.	(414) 423-0255

Mailing Address	Email
9856 South 57th Street Franklin, WI 53132	Anthony.LaBrasca@Terracon.com

2. Site Information

Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.
Choice Cleaners - Lake Country Square Mall

Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.
601 Ryan Street

Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.
Village of Pewaukee

County	Legal Description:	WTM:
Waukesha	NE ¼ of SW ¼ Section 05 , Town 07 N, Range 19 ● E ○ W	X 660197 Y 292763

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.
Lake Country Square, LLC

☐ A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review DNR publication RR-055; and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using DNR Form 4400-237.

Contact Person Name (if different)	Phone Number	Email
Stan Hack	(414) 803-6264	stan6364@gmail.com

Mailing Address	City	State	ZIP Code
200 East Ravine Drive	Mequon	WI	53092

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Contact Person Name (if different)	Phone Number	Email

Mailing Address	City	State	ZIP Code

(continued)

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- [x] VOCs
  - [ ] PCE
  - [ ] TCE
  - [x] Other Chlorinated
  - [ ] Diesel
  - [ ] Fuel Oil
  - [ ] Gasoline
  - [ ] Hydraulic Oil
  - [ ] Jet Fuel

(VOCs continued)

- [ ] Mineral Oil
- [ ] Waste Oil
- [ ] Petroleum-Unknown Type
- [ ] PAHs
- [ ] PCBs
- [ ] Cyanide
- [ ] Leachate
- [ ] Manure

- [ ] Metals
  - [ ] Arsenic
  - [ ] Chromium
  - [ ] Lead
  - [ ] Other: _____
- [ ] Pesticides: _____
- [ ] Fertilizer: _____
- [ ] RCRA Hazardous Waste: _____
- [ ] Other: _____
- [ ] Unknown

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- ____ Air Contamination
- ____ Co-mingled (Petroleum & Non-Petroleum)
- ____ Contamination in Fractured Bedrock
- ____ Contamination Within 1 Meter of Bedrock
- ____ Contaminated Private Well
- ____ Contaminated Public Well
- ____ Contamination in Right of Way
- ____ Fire Explosion Threat
- ____ Free Product
- K Groundwater Contamination
- ____ Off-Site Contamination
- ____ Sanitary Sewer Contamination
- ____ Storm Sewer Contamination
- ____ Sediment Contamination
- ____ Soil Contamination
- ____ Soil Gas Contamination
- K Sub-slab Vapor Contamination
- ____ Surface Water Contamination
- ____ Within 100 ft of Private Well
- ____ Within 1000 ft of Public Well

Other (specify): _____

Contamination was discovered as a result of:

- [ ] Tank closure assessment — Date
- [x] Site assessment — Date 12/9/2019
- [ ] Other - Describe: _____ — Date

Lab results: [ ] Lab results will be faxed upon receipt [x] Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information:

[x] Does not apply.

Source

- [ ] Tank
- [ ] Piping
- [ ] Dispenser
- [ ] Submersible Turbine Pump
- [ ] Delivery Problem
- [ ] Other (specify): _____

Cause

- [ ] Spill
- [ ] Overfill
- [ ] Corrosion
- [ ] Physical or Mechanical Damage
- [ ] Installation Problem
- [ ] Other (does not fit any of above)
- [ ] Unknown

Contact information to report non-emergency releases in DNR's five regions are as follows:

Northeast Region (FAX: 920-662-5413); Attention – R&R Program Associate: DNRRRNER@wisconsin.gov

Brown, Calumet, Door, Fond du Lac **(except City of Waupun - see South Central Region)**, Green Lake, Kewaunee, Manitowoc, Marinette, Marquette, Menominee, Oconto, Outagamie, Shawano, Sheboygan, Waupaca, Waushara, Winnebago counties

Northern Region (FAX: 715-623-6773); Attention -- R&R Program Associate: DNRRRNOR@wisconsin.gov

Ashland, Barron, Bayfield, Burnett, Douglas, Forest, Florence, Iron, Langlade, Lincoln, Oneida, Polk, Price, Rusk, Sawyer, Taylor, Vilas, Washburn counties

South Central Region (FAX: 608-273-5610); Attention – R&R Program Associate: DNRRRSCR@wisconsin.gov

Columbia, Dane, Dodge, Fond du Lac **(City of Waupun only)**, Grant, Green, Iowa, Jefferson, Lafayette, Richland, Rock, Sauk, Walworth counties

Southeast Region (FAX: 414-263-8550); Attention -- R&R Program Associate: DNRRRSER@wisconsin.gov

Kenosha, Milwaukee, Ozaukee, Racine, Washington, Waukesha counties

West Central Region (FAX: 715-839-6076); Attention – R&R Program Associate: DNRRRWCR@wisconsin.gov

Adams, Buffalo, Chippewa, Clark, Crawford, Dunn, Eau Claire, Jackson, Juneau, LaCrosse, Marathon, Monroe, Pepin, Pierce, Portage, St. Croix, Trempealeau, Vernon, Wood counties

Limited Site Investigation

Lake Country Square Property
601 Ryan Street
Pewaukee, Waukesha County, Wisconsin

December 9, 2019
Terracon Project No. 58197210

Prepared for:

Lake Country Square Center, LLC
Mequon, Wisconsin

Prepared by:

Terracon Consultants, Inc.
Franklin, Wisconsin

December 9, 2019

Lake Country Square Center, LLC
200 East Ravine Drive
Mequon, Wisconsin 53092

c/o von Briesen & Roper, s.c.

Attention: Mr. Gerard J. Flood
Phone: (414) 287-1580
Email: jflood@vonbriesen.com

Re: Limited Site Investigation
Lake Country Square
601 Ryan Street
Pewaukee, Waukesha County, Wisconsin
Terracon Project No. 58197210

Dear Mr. Flood:

At your request, Terracon Consultants, Inc. (Terracon) has completed a Limited Site Investigation (LSI) for the above-referenced property. This investigation was performed in general accordance with the scope of services detailed in Terracon Proposal No. P58197210 dated October 10, 2019 and Supplement to Agreement for Services dated November 14, 2019.

Terracon appreciates the opportunity to provide these services for you. If you have any questions or comments regarding our report, please contact us at your earliest convenience.

Sincerely,
Terracon Consultants, Inc.

Anthony J. LaBrasca
Assistant Scientist

Blaine R. Schroyer, P.E.
Principal/Office Manager

AJL/BRS:ajl/N:\Projects\2019\58197210\PROJECT DOCUMENTS (Reports-Letters-Drafts to Clients)\Lake Country Square LSI.docx

Terracon

TABLE OF CONTENTS

APPENDICES

LIMITED SITE INVESTIGATION

LAKE COUNTRY SQUARE PROPERTY
601 RYAN STREET
PEWAUKEE, WAUKESHA COUNTY, WISCONSIN

TERRACON PROJECT NO. 58197210
DECEMBER 9, 2019

1.0 INTRODUCTION

Terracon Consultants, Inc. (Terracon) has completed a Limited Site Investigation (LSI) at the site located at 601 Ryan Street, Pewaukee, Wisconsin (Exhibit 1, Appendix A). The objective of the LSI was to investigate the potential for subsurface contamination related to the recognized environmental conditions (RECs) identified in Terracon's May 10, 2019 Phase I Environmental Site Assessment (ESA).

1.1 Background Information

Terracon prepared a Phase I Environmental Site Assessment (ESA) of the site dated May 10, 2019 (Terracon Project No. 58197064). The site is located at 601 Ryan Street in the Village of Pewaukee, Waukesha County, Wisconsin. The site consists of an irregularly shaped lot that is 10.998 acres in size, identified as parcel #PWV0883991. The parcel includes a main parking lot/building area on the west portion of the site, with an access road that extends west from Ryan Street, on the east portion. The main portion of the parcel is improved with an approximately 64,630-square-foot multi-tenant retail building, built in 1990, known as Lake Country Square, and associated surrounding parking lot. The on-site multi-tenant retail facility includes a large anchor store tenant space currently occupied by a mostly-vacant grocery store, which is being utilized as warehouse space by Pick N' Save. The smaller multi-tenant portion of the building is currently occupied by an Allstate insurance office, OTT Chiropractic, Nails 'N Tan salon, Goodwill donation center, Choice Dry Cleaner, and Cost Cutters hair salon. Two of the tenant spaces are currently vacant including a former restaurant space.

An ERP case (BRRTS #02-68-226376) was opened at the site on May 27, 1999 in response to a Phase II ESA conducted at the site, which identified chlorinated solvents, including perchloroethylene (PCE or PERC), trichloroethylene (TCE), and dichloroethenes (DCE) in soil samples taken from the interior of the site building. Groundwater was found to be impacted with in excess of NR 140, Wisconsin Administrative Code (WAC), Enforcement Standards (ES) and Preventive Action Limits (PAL). Groundwater impacts were later detected below regulatory standards, except for one PAL exceedance for PCE. Groundwater was determined to be between 8-11 feet below ground surface (bgs), flowing to the southwest. Site-specific residual contaminant

levels (RCLs) were developed for the residual soil impacts underneath the building, which identified that the residual soil concentrations were below site-specific RCLs for both the non-industrial direct contact and soil-to-groundwater pathways. Given these findings, the case was closed by the WDNR on July 30, 2002, with an NR 140 PAL exemption for PCE, but no further action required. Vapor intrusion into the on-site building related to the residual chlorinated solvent soil impacts left in place under the on-site building did not appear to have been evaluated.

The following recognized environmental condition (REC) was identified in connection with the site:

- The dry-cleaner that has operated at the site since the site was developed is considered a REC due to: 1) its continued operations since investigation was completed in 2002 and 2) because the vapor intrusion pathway was not investigated.

Terracon recommended additional investigation to evaluate whether the above-referenced REC has impacted the site.

1.2 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-11.

1.3 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable, or not present during these services, and we cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this investigation.

Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.4 Reliance

This report is prepared for the exclusive use and reliance of Lake Country Square Center, LLC. Use or reliance by any other party is prohibited without the written authorization of Lake Country Square Center, LLC and Terracon Consultants, Inc.

Reliance on this report by the client and all authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and the Agreement for Services.

2.0 FIELD ACTIVITIES

2.1 Health and Safety Plan

Terracon is committed to the safety of all its employees. As such, and in accordance with our *Incident and Injury Free®* safety goals, Terracon developed a safety plan to be used by our personnel during field services. Prior to commencement of on-site activities, Terracon held a brief health and safety meeting to review health and safety needs for this specific project. We performed fieldwork in a United States Environmental Protection Agency (USEPA) Level D work uniform consisting of hard hats, safety glasses, protective gloves, and steel toed boots.

2.2 Locate Utilities in Work Area

In an effort to locate utilities in the work area, Terracon contacted Diggers Hotline and documented the locations of underground utilities on-site and near the site boundary. A private utility locating service was subcontracted to locate private utilities at the site.

2.3 Soil Sampling

Terracon's field activities were conducted on October 25, 2019. The proposed scope of services included advancement of one soil boring (P-1). Soil boring P-1 was located west-southwest (hydrogeologically down-gradient) of the dry-cleaning operation. The soil boring location is depicted on Exhibit 2, Appendix A.

The soil boring was advanced to 16 feet bgs. Soil samples were collected continuously to the boring terminus. The first evidence of groundwater was encountered at a depth of approximately 10 feet bgs during soil sampling. Soil characteristics (e.g. texture, color) were noted. No evidence of staining or unusual odors were noted in the soil samples. Soil samples were screened using a photoionization detector (PID) (RAE Systems, MiniRAE 3000) equipped with a 10.6 electron volt (e.V.) lamp to detect the presence of volatile organic compounds (VOCs). The PID was calibrated

according to the manufacturer's instructions using isobutylene gas at a concentration of 100 parts per million by volume (ppmv) prior to beginning and during the investigation.

Surficial material consisted of approximately 6 inches of asphalt overlying approximately one foot of base course fill. Beneath the fill, was approximately 4 feet of brown, dry, sandy clay with trace amounts of dolomitic gravel. This material was overlying approximately one foot of silty clay, which had increased levels of moisture and exhibited higher levels of cohesiveness. A stiffer, less cohesive, sandy clay with trace amounts of gravel was then encountered from approximately 6 feet bgs to the boring terminus of 16 feet bgs. The soil was noted to be soft and wet at approximately 10 feet bgs and was saturated at 12 feet bgs to the boring terminus. Elevated PID readings were not observed; therefore, the soil samples were collected from below fill material at 2 feet and at 9 feet bgs, the depth immediately above the observed groundwater table. Detailed soil descriptions and PID readings are presented on the soil boring logs included in Appendix C. Select photographs taken during the LSI are included in Appendix D.

The soil samples were collected in laboratory-supplied containers, placed in an ice chest to cool to approximately 4 degrees Celsius (°C), and transferred under chain of custody protocol to a Wisconsin-certified laboratory for analysis of VOCs by USEPA Method 8260.

2.4 Groundwater Sampling

Terracon constructed a temporary groundwater monitoring well within the soil boring by installing a 5-foot section of 1-inch diameter polyvinyl chloride (PVC) well screen in the open borehole with a sand filter-pack. The groundwater was purged for up to approximately 15 minutes by inserting disposable tubing into the temporary groundwater monitoring well and extracting water with a peristaltic pump to obtain a sample with low turbidity. After purging, the depth to groundwater was observed at approximately 12 feet bgs. The groundwater sample was collected from the disposable tubing after purging was completed.

The groundwater sample was collected in laboratory-supplied containers, placed in an ice chest to cool to approximately 4°C, and transferred under chain of custody protocol to a Wisconsin-certified laboratory for analysis of VOCs.

After sampling, the temporary groundwater monitoring well was removed, and the boring was abandoned in accordance with NR 141, Wisconsin Administrative Code (WAC). The abandonment form is located in Appendix C.

2.5 Sub-Slab Vapor Sampling

One sub-slab vapor monitoring point (VP-1) was installed near the dry-cleaning machine. An approximate layout of the sampling location and relevant site features are depicted on Exhibit 3, Appendix A.

The sub-slab vapor monitoring point consisted of a pre-fabricated Vapor Pin™ sample insert, constructed using a hammer drill in accordance with Terracon's and Cox Colvin standard operating procedures. The sampler insert was cleaned using an Alconox and distilled water solution before installation to remove residues and contaminants left over from the fabrication processes. A ⅝-inch diameter drill bit was advanced completely through the concrete slab and into the substrate below the concrete. The insert was then installed in the hole drilled through the concrete floor slab. A Vapor Pin™ leak-tight sub-slab gas sampling insert was subsequently installed into the concrete borehole, and the insert was hammered into the concrete for a tight fit.

The integrity of the sample point was evaluated prior to sampling by conducting a leak test. The leak test was conducted by using a helium shroud over the vapor monitoring point for 15 minutes and monitoring the amount of helium in the sub-slab monitoring point. After leak testing verified helium was not leaking beneath the slab, a sample was collected by connecting the sample point to the Summa canister with dedicated tubing and opening the valve on the canister. Terracon collected the sub-slab vapor sample over a 30-minute period. The sample was collected in a laboratory-prepared 6-liter Summa canister with a flow regulator calibrated for 30-minute collection. The sub-slab vapor sample/Summa canister was submitted under chain of custody protocol to a Wisconsin-certified laboratory for analysis of VOCs using EPA Method TO-15.

Sub-slab vapor point VP-1 contained an elevated concentration of dichlorodifluoromethane (Freon-12). The presence of the dichlorodifluoromethane was not anticipated as it is commonly used as a refrigerant and is not known to be associated with dry cleaning operations. However, a related chemical, trichlorotrifluoroethane, is used in dry cleaning operations. Another possible source of dichlorodifluoromethane is the compressors, which cooled freezers and coolers at the former Pick N' Save to the north.

To verify and investigate the extent of the dichlorodifluoromethane, vapor monitoring points VP-1A and VP-2 through VP-5 were installed and sampled on November 20, 2019, as described above. VP-1A was installed at the approximate location of VP-1, VP-2 was installed in a vacant unit (former Subway) located between VP-1 and Pick N' Save, and VP-3 through VP-5 were installed at the former Pick N' Save. There were no chemicals and no cracks in the vacant former Subway space. The former Pick N' Save contained no chemicals; however, multiple cracks and holes were observed in the floor slab apparently related to the electrical and piping conduits for the former freezer/cooler units.

3.0 ANALYTICAL RESULTS AND DISCUSSION

3.1 Soil Analytical Data

The Wisconsin Department of Natural Resources (WDNR) has established guidance for the calculation of soil residual contaminant levels (RCLs) for direct-contact exposure and the

protection of groundwater. Background threshold values (BTVs) have also been established for some metals. The guidance document, *Soil Residual Contaminant Level Determinations using the US EPA Regional Screening Level Web Calculator*, PUB-RR-890, dated January 2014 (with input parameters updated as of December 2018) was used to establish RCLs for this site.

VOCs were not detected in the soil samples at concentrations above the analytical limits of detection (LOD). The laboratory report and chain of custody form are located in Appendix E.

3.2 Groundwater Analytical Data

The WDNR has established groundwater quality standards, which are set forth in NR 140, WAC. For each regulated compound, two standards have been established, the Enforcement Standard (ES) and the Preventive Action Limit (PAL). In general, if the regulated contaminant exceeds its PAL, but is below its ES, the WDNR may require additional investigation/continued monitoring. If the regulated contaminant is above its ES, the WDNR may require additional investigation, continued monitoring, and/or remediation.

Toluene and cis-1,2-DCE were detected at concentrations exceeding their LODs in the groundwater sample. The detected concentration of toluene was below its analytical limit of quantitation (LOQs) and its NR 140, WAC, PAL. Cis-1,2-DCE was detected at a concentration of 26.9 micrograms per liter (ug/L), which exceeds its NR 140, WAC, PAL of 7 ug/L but is below its NR 140, WAC, ES of 70 ug/L. Groundwater results are presented in Table 1, Appendix B. The laboratory analytical report and chain of custody form are included in Appendix D.

3.3 Vapor Analytical Data

The WDNR prepared the document titled *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin*, (pub-RR-800) dated January 2018 as guidance to identify conditions and assess potential vapor intrusion pathways. The WDNR uses indoor vapor action levels (VALs) based on USEPA screening level tables, applying a 1×10^{-5} excess lifetime cancer risk.

Terracon compared the soil vapor analytical results to the EPA Regional Screening Level Indoor Air Vapor Action Levels for Various VOCs (November 2017). Vapor Risk Screening Levels (VRSLs) were calculated by applying an attenuation factor to the VALs for comparison with the analytical results based on the WDNR guidance document. Small commercial building VRSLs are considered applicable for this scenario.

Numerous VOCs were detected at concentrations exceeding their analytical LODs in the sub-slab vapor samples. However, dichlorodifluoromethane was the only compound detected at concentrations exceeding a VAL. The detected concentration of dichlorodifluoromethane was 180,000 micrograms per cubic meter (ug/m^3), which is well above its small commercial building

VRSL. Since there was no known source of dichlorodifluoromethane associated with the dry-cleaners, Terracon requested the laboratory re-evaluate the reported detection. According to the laboratory, "there is no evidence to suggest that the elevated detection of dichlorodifluoromethane was from a laboratory source."

The sampling performed at VP-1A and VP-2 through VP-5 verified the elevated concentration of dichlorodifluoromethane in VP-1A. None of the other VOCs detected exceed their VRSLs at VP-1A and VP-2 through VP-5. The concentration of dichlorodifluoromethane detected (13,XXX ug/m^3) in VP-1A is an order of magnitude lower than originally detected in VP-1. However, it is not abnormal for vapor results to vary greatly based on atmospheric conditions.

4.0 SUMMARY AND RECOMMENDATIONS

The objective of the LSI was to investigate the potential for subsurface contamination related to the RECs identified in Terracon's April 16, 2019 Phase I ESA. Specifically, the sampling was intended to evaluate whether a release of dry-cleaning solvents has occurred since the site was last investigated, including whether soil gas is impacted.

VOCs were not detected in the soil samples submitted for laboratory analysis. VOCs, including cis-1,2-DCE and toluene, were detected at concentrations exceeding their respective LODs in the groundwater sample. The concentration of toluene was below its LOQ and NR 140, WAC, standards. The concentration of cis-1,2-DCE exceeds its NR 140, WAC, PAL. However, when the prior investigation was completed, DCE was known to be present in the soil beneath the building. Comparing these results to the prior data, it does not appear that the continued operation of the dry-cleaners since investigation was completed in 2002 has further impacted the site.

Several VOCs were detected at concentrations exceeding their respective LODs in sub-slab vapor samples. However, only dichlorodifluoromethane was detected at concentrations exceeding applicable VRSLs. There was no known source of dichlorodifluoromethane associated with the dry-cleaners, although it is chemically similar to trichlorotrifluoroethane, which is associated with dry-cleaning operations. And, while dichlorodifluoromethane is a refrigerant and there were refrigeration systems associated with the Pick N' Save to the north, the concentrations of dichlorodifluoromethane did not indicate a source area other than the dry-cleaner.

Terracon recommends reporting these findings to the WDNR. Reporting these detections is required per Section 292.11, Wis. Stats, which is also known as the "Spill Law". The statue requires that a person who possesses or controls a hazardous substance, which is discharged or who causes the discharge of a hazardous substance, shall notify the department immediately of any discharge not exempted by law.

Since the detected concentration of cis-1,2-DCE in the groundwater is likely associated with the closed ERP case, we expect that the WDNR will not require further investigation with respect to

the dry-cleaning solvents. However, the WDNR may open a new case to request further related to the dichlorodifluoromethane detected in the sub-slab soil vapor. The additional sub-slab soil vapor sampling shows that the concentrations are highly associated with the dry-cleaner operations and are variable. We anticipate the WDNR may require further investigation associated with the dichlorodifluoromethane or close the case without further investigation, provided the presence of the dichlorodifluoromethane is documented and the site use remains commercial.

5.0 GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained during this investigation and laboratory chemical analyses at the indicated locations discussed in this report. This report does not reflect variations in subsurface stratigraphy, hydrogeology, and contaminant distribution that may occur across the site. Actual subsurface conditions may vary and may not become evident without further investigation.

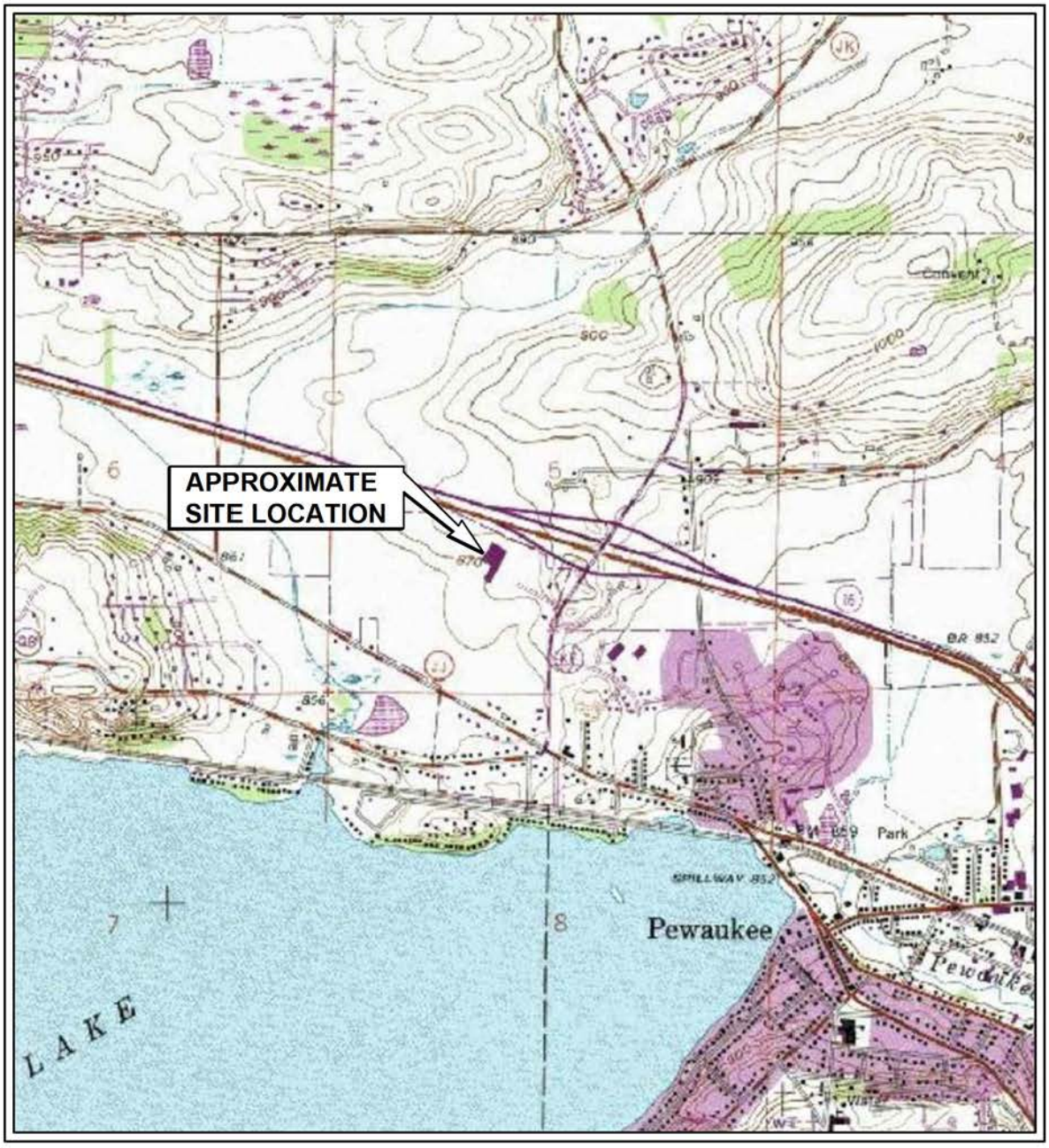
This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted environmental engineering practices. No warranties, express or implied are intended or made.

In the event any changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed, and the opinions of this report are modified or verified in writing by Terracon.

APPENDIX A

EXHIBITS

UNITED STATES – DEPARTMENT OF THE INTERIOR – GEOLOGICAL SURVEY



SCALE 1:24 000

1 .5 0 KILOMETERS 1 2

1000 0 METERS 1000 2000

1 .5 0 1

MILES

1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

HARTLAND QUADRANGLE
WAUKESHA COUNTY ~ WISCONSIN
1994
7.5 MINUTE SERIES (TOPOGRAPHIC)

DIAGRAM IS FOR GENERAL LOCATION ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	PJS
Drawn By:	PJS
Checked By:	EMN
Approved By:	EMN

Project No.	58197064
Scale:	AS SHOWN
File No.	58197064C1
Date:	05/2019

Terracon
Consulting Engineers and Scientists
9856 SOUTH 57th STREET FRANKLIN, WI 53132
PH. (414) 423-0255 FAX. (414) 423-0566

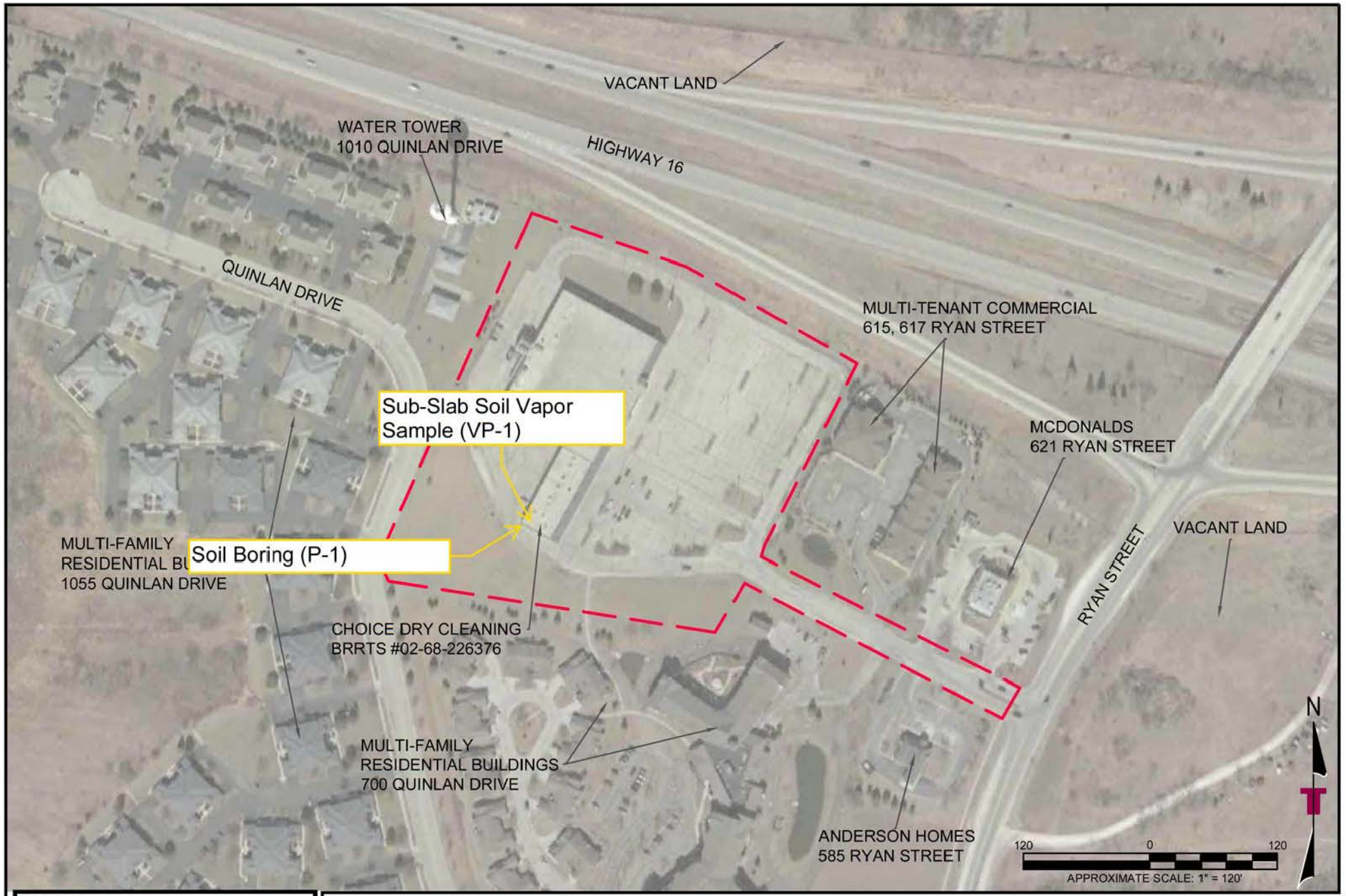
TOPOGRAPHIC MAP

LAKE COUNTRY SQUARE
601 RYAN STREET
PEWAUKEE, WISCONSIN

EXHIBIT

1

(EX1 TOPO)



LEGEND

APPROXIMATE SITE BOUNDARY

IMAGE SOURCE: GOOGLE EARTH PRO
DIAGRAM IS FOR GENERAL LOCATION ONLY, AND
IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	AJL
Drawn By:	PJS
Checked By:	AJL
Approved By:	BRS

Project No.	58197210
Scale:	AS SHOWN
File No.	58187210C1
Date:	11/2019

Terracon
Consulting Engineers and Scientists
9856 SOUTH 57th STREET FRANKLIN, WI 53132
PH. (414) 423-0255 FAX. (414) 423-0566

SITE DIAGRAM

LAKE COUNTRY SQUARE
601 RYAN STREET
PEWAUKEE, WISCONSIN

EXHIBIT

2

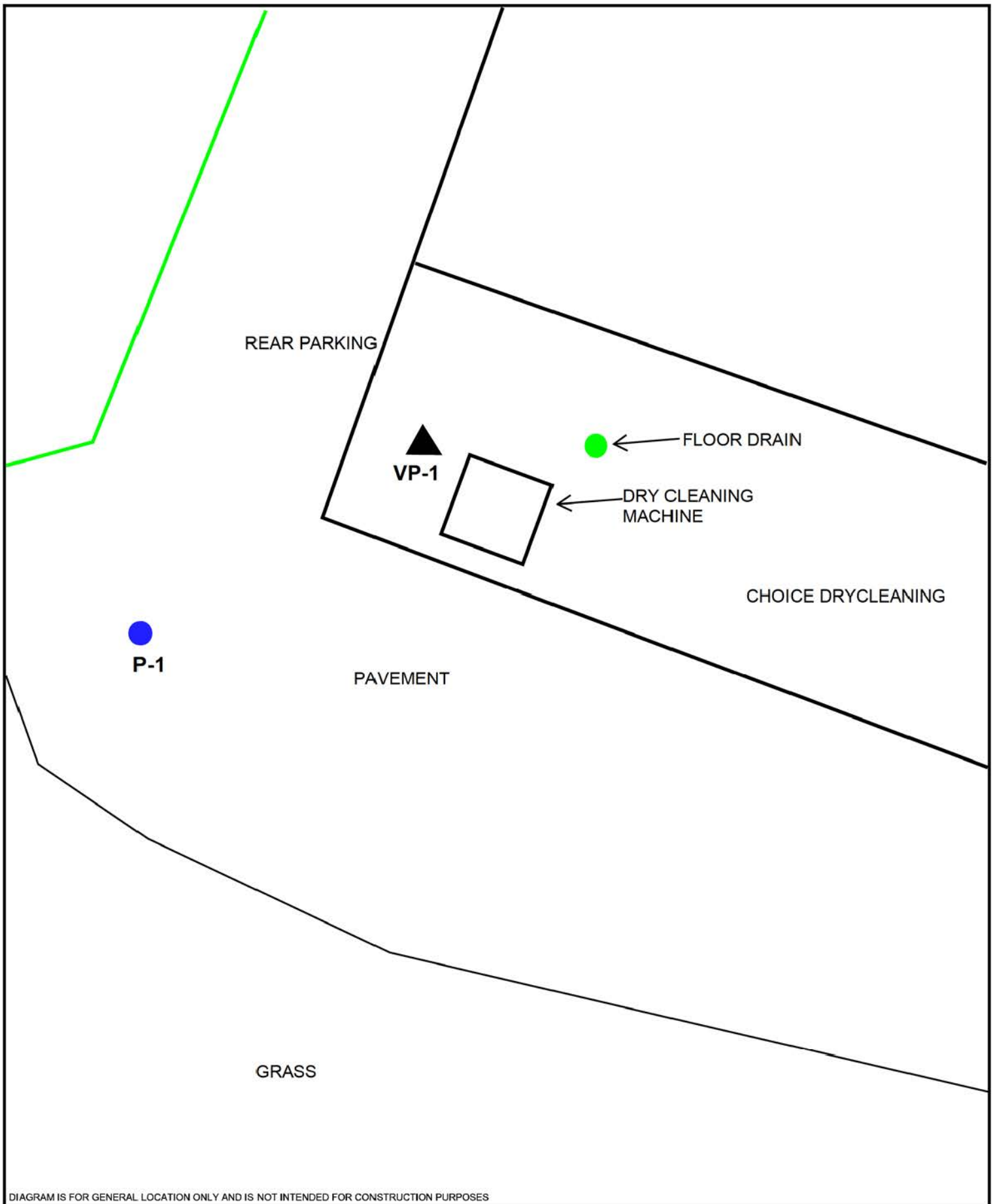
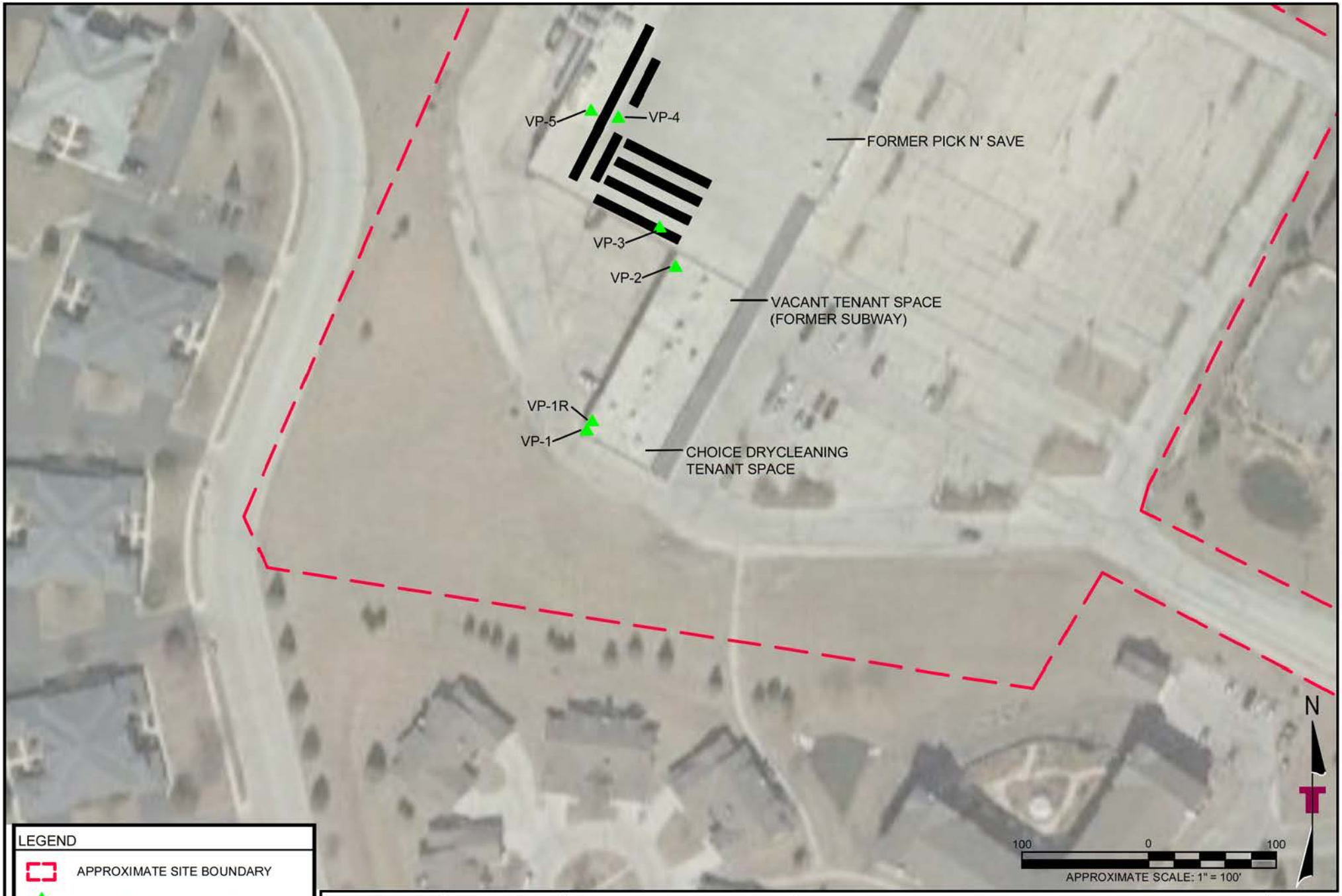


DIAGRAM IS FOR GENERAL LOCATION ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr: AJL	Project No. 58197210	Terracon Consulting Engineers and Scientists	VAPOR INSTRUSION MAP	EXHIBIT
Drawn By: AJL	Scale: AS SHOWN	9856 SOUTH 57th STREET FRANKLIN, WI 53132	LAKE COUNTRY SQUARE	3
Checked By: TPW	File No. 58197210C1	PH. (414) 423-0255 FAX. (414) 423-0566	601 RYAN STREET	
Approved By: BRS	Date: 11/2019		PEWAUKEE, WISCONSIN	



LEGEND

- APPROXIMATE SITE BOUNDARY
- SUB-SLAB VAPOR SAMPLE POINT
- APPROXIMATE COOLER / FREEZER LOCATIONS

IMAGE SOURCE: GOOGLE EARTH PRO
DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	LPC
Drawn By:	PJS
Checked By:	EMN
Approved By:	BRS

Project No.	58197210
Scale:	AS SHOWN
File No.	58187210C1
Date:	12/2019

Terracon
Consulting Engineers and Scientists
9856 SOUTH 57th STREET FRANKLIN, WI 53132
PH. (414) 423-0255 FAX. (414) 423-0566

VAPOR SAMPLE LOCATIONS (11-20-2019)

LAKE COUNTRY SQUARE
601 RYAN STREET
PEWAUKEE, WISCONSIN

EXHIBIT
4

APPENDIX B

SOIL BORING LOG AND BOREHOLE
ABANDONMENT FORM

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
58197210 Lake County Square Center LLC		P-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	10/25/2019	10/25/2019	DIRECT PUSH

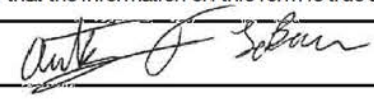
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane N, E S/C/N
1/4 of 1/4 of Section , T N, R
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Waukesha	68	Pewaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	48 46		0	Asphalt				<1						
				Basecourse										
			1.5	Sandy Clay, trace dolomite gravel, Dry				<1						* Sample Submitted
			3.0		CL									
2	48 28		4.5					<1						
			6.0	Silty Clay, gray to brown, soft, cohesive, trace fine to medium grained sand, moist	CL-ML			<1						
			7.5	Sandy Clay, light brown, with gravel < 1/2", sub angular, slightly cohesive, dry										
3	48 41		9.0					<1						* Sample Submitted
				....softer and wet										
			10.5		CL			<1						
4	48 45		12.0	...saturated				<1						
			13.5											
			15.0					<1						
				End of Boring @ 16'										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature  Firm Terracon Consultants, Inc.
9856 South 57th Street / Franklin, Wisconsin 53132
Tel: 414-423-0255
Fax: 414-423-0566

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
WAUKESHA	_ _ _ _ _ _	

Latitude / Longitude (see instructions) _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
or Gov't Lot #			N	☐ E ☐ W

Well Street Address: 601 RYAN STREET

Well City, Village or Town	Well ZIP Code
VILLAGE OF PEWAUKEE	

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
TEMPORARY WELL	_ _ _ _ _ _

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
● Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/25/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
● Other (specify): DIRECT PUSH SOIL BORING

Formation Type:
● Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
16	1.25

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	16

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	12

2. Facility / Owner Information

Facility Name: LAKE COUNTRY SQUARE
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner:
Mailing Address of Present Owner:

City of Present Owner	State	ZIP Code

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	● N/A
Liner(s) removed?	☐ Yes	☐ No	● N/A
Liner(s) perforated?	☐ Yes	☐ No	● N/A
Screen removed?	● Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	● No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	● N/A
Did sealing material rise to surface?	● Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	● No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	● Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
● Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ● Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
● Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
ASPHALT PATCH	Surface	0.5		
BENTONITE CHIPS	0.5	16	1/2 BAG	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
TERRACON CONSULTANTS		10/25/2019

Street or Route	Telephone Number
9856 SOUTH 57TH STREET	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
FRANKLIN	WI	53132		11/5/2019

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX C

TABLES

Table 1
Groundwater Analytical Table for VOCs
Detected Compounds Only

Lake Country Square
601 Ryan Street
Pewaukee, Wisconsin
Terracon Project No. 58197210

Sample ID	Sample Date	VOCs (ug/L)	
		cis-1,2-Dichloroethene	Toluene
P-1	10/25/2019	26.9	0.23
NR 140 WAC, PAL[1]		7	160
NR 140 WAC, ES[2]		**70**	**800**

Notes:

VOC = Volatile Organic Compounds

Results expressed in micrograms per liter (ug/L)

[1]NR 140, Wisconsin Administrative Code, (WAC) Preventive Action Limit (PAL), Register, February 2017

[2]NR 140, WAC, Enforcement Standard (ES), Register, February 2017

XX.XX	Exceeds NR 140 PAL
XX.XX	Exceeds NR 140 ES

TABLE 2
Vapor Analytical Test Results Summary: Sub-slab

Lake Country Square
601 Ryan Street
Pewaukee, Wisconsin
Terracon Project No. 58197210

Vapor Sampling Point	Sample Date	Volatile Organic Compounds (VOCs - µg/m³)																						
		Tetrachloroethene (PCE)	Trichloroethene (TCE)	Acetone	Benzene	2-Butanone (MEK)	Chloromethane	Cyclohexane	Dichlorodifluoromethane	Ethanol	Ethyl Acetate	Ethylbenzene	4-Ethyltoluene	n-Heptane	n-Hexane	2-Hexanone	Methylene Chloride	Naphthalene	2-Propanol	Styrene	Toluene	Trichlorofluoromethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-xylene
VP-1	10/25/19	37.9	5.5	80.5	15.5	2.0	<0.31	10.4	180,000	25.0	<0.37	5.4	<1.1	35.4	28.8	<1.5	16.2	<2.6	4.6	2.7	21.8	1.7	2.6	0.81	8.8	3.3
VP-1R	11/20/19	20.4	5.3	119	18.1	1.1	<0.27	12.3	13,700	28.2	0.81	9.8	3.2	24.1	5.5	<1.3	7.2	<2.3	5.1	16.7	38.4	1.7	4.2	3.1	33.9	14.7
VP-2	11/20/19	0.77	<0.44	52.1	1.5	3.1	0.39	12.4	39.8	1,660	0.78	10.3	3.6	20.4	4.1	<1.3	5.8	4.0	134	21.2	30.8	1.2	5.1	3.4	40.3	17.5
VP-3	11/20/19	0.88	<0.46	25.0	1.3	2.8	<0.29	11.6	210	88.7	<0.35	12.6	3.8	21.6	2.9	<1.4	4.0	4.1	6.9	29.1	34.9	1.3	6.7	4.1	51.8	22.8
VP-4	11/20/19	0.91	<0.45	53.8	2.0	2.4	<0.28	15.2	57.7	247	<0.34	13.3	3.7	24.3	4.3	5.1	8.6	4.1	14.2	29.8	39.2	1.2	6.7	4.0	53.6	23.4
VP-5	11/20/19	17.2	<0.46	38.9	2.5	2.4	<0.29	12.2	3,170	198	0.88	12.2	3.6	22.7	5.6	<1.4	11.3	4.1	8.7	25.6	37.1	1.5	6.0	3.5	47.9	21.0
Residential Indoor Air VAL [1]	µg/m³	42	2.1	32,200	3.6	5,210	94	6,260	100	--	7.3	11	--	417	730	3.13	630	0.83	209	1,040	5,200	--	63	63	100	100
Residential Sub-slab Vapor/Soil Gas VRSL [2]	µg/m³	1,400	70	1,073,333	120	173,667	3,100	208,667	3,300	--	243.3	370	--	13,900	24,333	104.3	21,000	28	6,967	34,667	170,000	--	2,100	2,100	3,300	3,300
Small Commercial Building Indoor Air VAL [1]	µg/m³	180	8.8	135,000	16	21,900	390	26,300	440	--	37	49	--	1,750	3,070	13.1	2,600	3.6	876	4,380	22,000	--	260	260	440	440
Small Commercial Building Sub-slab Vapor/Soil Gas VRSL [2]	µg/m³	6,000	290	4,500,000	530	730,000	13,000	876,667	15,000	--	1,233.3	1,600	--	58,333	102,333	437	87,000	120	29,200	146,000	730,000	--	8,700	8,700	15,000	15,000
Large Commercial/Industrial Building Indoor Air VAL [1]	µg/m³	180	8.8	135,000	16	21,900	390	26,300	440	--	37	49	--	1,750	3,070	13.1	2,600	3.6	876	4,380	22,000	--	230	230	4440	4440
Large Commercial/Industrial Building Sub-slab Vapor/Soil Gas VRSL [3]	µg/m³	18,000	880	13,500,000	1,600	219,000	39,000	2,630,000	44,000	--	3,700	4,900	--	17,500	30,700	1,300	260,000	360	87,600	43,800	2,200,000	--	28,000	26,000	44,000	44,000

Notes:
Results expressed in micrograms per cubic meter (ug/m³)
VAL = Vapor Action Limit
VRSL = Vapor Risk Screening Level
CVOCs = Chlorinated Volatile Organic Compounds

" < " Indicates not detected at or above the limit of detection (LOD)

" -- " Indicates standard not established, not calculated or not analyzed

[1] VALs are shown for information only and do not apply to sub-slab results. VAL given as the lesser of 1:100,000 lifetime cancer risk or noncancer hazard index of 1 value in generic U.S EPA Tables at the web address: http://www.epa.gov/re3hwmd/risk/human/rb-concentratio_table/Generic_Tables/index.htm and modifed for Wisconsin Vapor Intrusion Guildance PUB-RR-800 lifetime cancer risk (1:100,000) (Nov 2017)

[2] VRSL is the VAL adjusted for sub-slab vapor to indoor air by applying an attenuation factor of 0.03 for comparison with the analytical results.

[3] VRSL is the VAL adjusted for sub-slab vapor to indoor air by applying an attenuation factor of 0.01 for comparison with analytical results.

Blue Shaded values indicate exceedance of applicable residential VRSLs (sub-slab)
Grey Shaded values indicate exceedance of applicable small commercial VRSLs (sub-slab)
Orange Shaded values indicate exceedance of applicable Large commercial building VRSLs (sub-slab)

APPENDIX D

PHOTOGRAPHIC LOG

Lake Country Square
Terracon Project No. 58197210
Date of Photographs: October 25, 2019 and November 20, 2019

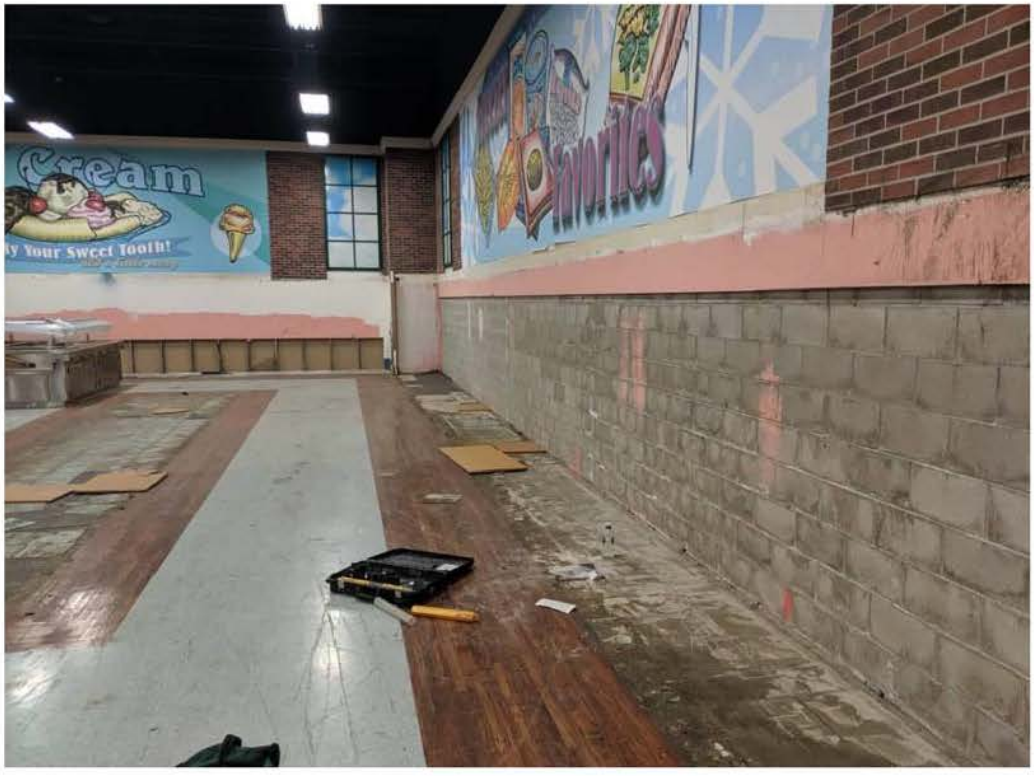
1) Photograph facing northeast of the location of soil boring P-1.

2) Photograph facing southwest of soil boring P-1.

3) Photograph showing temporary monitoring well P-1.

4) Photograph taken during VP-1 sample collection.

5) Photograph of VP-2.



6) Photograph of VP-3.

7) Photograph of VP-4.

8) Photograph of VP-5.

APPENDIX E

LABORATORY ANALYTICAL REPORTS,
CHAINS OF CUSTODIES, AND SUB-SLAB
VAPOR SAMPLING SHEETS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 04, 2019

Anthony LaBrasca
Terracon, Inc. - Franklin
9856 S. 57th Street
Franklin, WI 53132

RE: Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Dear Anthony LaBrasca:
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2019. 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40198119001	**P-1 (2)**	Solid	10/25/19 11:00	10/29/19 08:50
40198119002	**P-1 (9)**	Solid	10/25/19 11:10	10/29/19 08:50
40198119003	**P-1**	Water	10/25/19 11:45	10/29/19 08:50
40198119004	**MEOH BLANK**	Solid	10/25/19 00:00	10/29/19 08:50
40198119005	**HCL TRIP BLANK**	Water	10/25/19 00:00	10/29/19 08:50

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Green Bay, WI 54302
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SAMPLE ANALYTE COUNT

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40198119001	**P-1 (2)**	EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AMS	1	PASI-G
40198119002	**P-1 (9)**	EPA 8260	ALD	64	PASI-G
		ASTM D2974-87	AMS	1	PASI-G
40198119003	**P-1**	EPA 8260	HNW	64	PASI-G
40198119004	**MEOH BLANK**	EPA 8260	MDS	64	PASI-G
40198119005	**HCL TRIP BLANK**	EPA 8260	HNW	64	PASI-G

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40198119001	**P-1 (2)**					
ASTM D2974-87	Percent Moisture	6.9	%	0.10	11/01/19 11:05	
40198119002	**P-1 (9)**					
ASTM D2974-87	Percent Moisture	6.6	%	0.10	11/01/19 11:05	
40198119003	**P-1**					
EPA 8260	cis-1,2-Dichloroethene	26.9	ug/L	1.0	10/30/19 12:42	
EPA 8260	Toluene	0.23J	ug/L	5.0	10/30/19 12:42	

Pace Analytical Services, LLC
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Green Bay, WI 54302
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PROJECT NARRATIVE

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Method: **EPA 8260**
Description: 8260 MSV Med Level Normal List
Client: Terracon, Inc. - Franklin
Date: November 04, 2019

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 339173

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40197646002

R1: RPD value was outside control limits.

- MSD (Lab ID: 1969863)
  - 1,1-Dichloroethene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

PROJECT NARRATIVE

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Method: **EPA 8260**
Description: 8260 MSV
Client: Terracon, Inc. - Franklin
Date: November 04, 2019

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 (2) **Lab ID: 40198119001** Collected: 10/25/19 11:00 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	10/31/19 10:45	10/31/19 20:07	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	10/31/19 10:45	10/31/19 20:07	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	10/31/19 10:45	10/31/19 20:07	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	10/31/19 10:45	10/31/19 20:07	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/31/19 10:45	10/31/19 20:07	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 (2) **Lab ID: 40198119001** Collected: 10/25/19 11:00 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	10/31/19 10:45	10/31/19 20:07	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/31/19 10:45	10/31/19 20:07	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 20:07	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-146		1	10/31/19 10:45	10/31/19 20:07	1868-53-7	
Toluene-d8 (S)	105	%	64-134		1	10/31/19 10:45	10/31/19 20:07	2037-26-5	
4-Bromofluorobenzene (S)	100	%	54-126		1	10/31/19 10:45	10/31/19 20:07	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.9**	%	0.10	0.10	1		11/01/19 11:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 (9) **Lab ID: 40198119002** Collected: 10/25/19 11:10 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	10/30/19 10:15	11/01/19 18:45	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	10/30/19 10:15	11/01/19 18:45	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	10/30/19 10:15	11/01/19 18:45	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	10/30/19 10:15	11/01/19 18:45	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/04/19 11:05	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/30/19 10:15	11/01/19 18:45	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 (9) **Lab ID: 40198119002** Collected: 10/25/19 11:10 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	10/30/19 10:15	11/01/19 18:45	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/30/19 10:15	11/01/19 18:45	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/30/19 10:15	11/01/19 18:45	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	10/30/19 10:15	11/01/19 18:45	1868-53-7	
Toluene-d8 (S)	106	%	64-134		1	10/30/19 10:15	11/01/19 18:45	2037-26-5	
4-Bromofluorobenzene (S)	96	%	54-126		1	10/30/19 10:15	11/01/19 18:45	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**6.6**	%	0.10	0.10	1		11/01/19 11:05		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 **Lab ID: 40198119003** Collected: 10/25/19 11:45 Received: 10/29/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/19 12:42	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/30/19 12:42	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/30/19 12:42	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/30/19 12:42	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/30/19 12:42	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/30/19 12:42	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 12:42	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/30/19 12:42	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/30/19 12:42	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/30/19 12:42	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 12:42	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/30/19 12:42	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/30/19 12:42	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/30/19 12:42	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/30/19 12:42	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/30/19 12:42	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/30/19 12:42	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/30/19 12:42	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/19 12:42	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/30/19 12:42	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 12:42	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/30/19 12:42	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/30/19 12:42	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/30/19 12:42	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/30/19 12:42	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 12:42	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/30/19 12:42	75-35-4	
cis-1,2-Dichloroethene	**26.9**	ug/L	1.0	0.27	1		10/30/19 12:42	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/30/19 12:42	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 12:42	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/30/19 12:42	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/30/19 12:42	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/30/19 12:42	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/30/19 12:42	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/30/19 12:42	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/30/19 12:42	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/30/19 12:42	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/30/19 12:42	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/30/19 12:42	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/30/19 12:42	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/30/19 12:42	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/19 12:42	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/19 12:42	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/30/19 12:42	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/30/19 12:42	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/30/19 12:42	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: P-1 **Lab ID: 40198119003** Collected: 10/25/19 11:45 Received: 10/29/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 12:42	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/30/19 12:42	127-18-4	
Toluene	**0.23J**	ug/L	5.0	0.17	1		10/30/19 12:42	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/30/19 12:42	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/30/19 12:42	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/30/19 12:42	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/30/19 12:42	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/30/19 12:42	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/30/19 12:42	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/30/19 12:42	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/30/19 12:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/30/19 12:42	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/30/19 12:42	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/30/19 12:42	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/30/19 12:42	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/30/19 12:42	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/30/19 12:42	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/30/19 12:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: MEOH BLANK **Lab ID: 40198119004** Collected: 10/25/19 00:00 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	10/31/19 10:45	10/31/19 18:35	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	10/31/19 10:45	10/31/19 18:35	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	10/31/19 10:45	10/31/19 18:35	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	10/31/19 10:45	10/31/19 18:35	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/31/19 10:45	10/31/19 18:35	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	100-42-5	W

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: MEOH BLANK **Lab ID: 40198119004** Collected: 10/25/19 00:00 Received: 10/29/19 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	10/31/19 10:45	10/31/19 18:35	120-82-1	W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/31/19 10:45	10/31/19 18:35	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/31/19 10:45	10/31/19 18:35	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-146		1	10/31/19 10:45	10/31/19 18:35	1868-53-7	
Toluene-d8 (S)	104	%	64-134		1	10/31/19 10:45	10/31/19 18:35	2037-26-5	
4-Bromofluorobenzene (S)	104	%	54-126		1	10/31/19 10:45	10/31/19 18:35	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: HCL TRIP BLANK **Lab ID: 40198119005** Collected: 10/25/19 00:00 Received: 10/29/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/30/19 16:38	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/30/19 16:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/30/19 16:38	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/30/19 16:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/30/19 16:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/30/19 16:38	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 16:38	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/30/19 16:38	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/30/19 16:38	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/30/19 16:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 16:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/30/19 16:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/30/19 16:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/30/19 16:38	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/30/19 16:38	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/30/19 16:38	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/30/19 16:38	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/30/19 16:38	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/30/19 16:38	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/30/19 16:38	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/30/19 16:38	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/30/19 16:38	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/30/19 16:38	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/30/19 16:38	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/30/19 16:38	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 16:38	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/30/19 16:38	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/30/19 16:38	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/30/19 16:38	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 16:38	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/30/19 16:38	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/30/19 16:38	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/30/19 16:38	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/30/19 16:38	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/30/19 16:38	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/30/19 16:38	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/30/19 16:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/30/19 16:38	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/30/19 16:38	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/30/19 16:38	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/30/19 16:38	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/30/19 16:38	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/30/19 16:38	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/30/19 16:38	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/30/19 16:38	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/30/19 16:38	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Sample: HCL TRIP BLANK **Lab ID: 40198119005** Collected: 10/25/19 00:00 Received: 10/29/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/30/19 16:38	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/30/19 16:38	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/30/19 16:38	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/30/19 16:38	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/30/19 16:38	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/30/19 16:38	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/30/19 16:38	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/30/19 16:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/30/19 16:38	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/30/19 16:38	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/30/19 16:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/30/19 16:38	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/30/19 16:38	75-01-4	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/30/19 16:38	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/30/19 16:38	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/30/19 16:38	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		10/30/19 16:38	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/30/19 16:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

QC Batch: 339173
QC Batch Method: EPA 5035/5030B
Associated Lab Samples: 40198119002

Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List

METHOD BLANK: 1969859
Matrix: Solid
Associated Lab Samples: 40198119002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/31/19 17:50	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/31/19 17:50	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/31/19 17:50	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/31/19 17:50	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/31/19 17:50	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/31/19 17:50	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/31/19 17:50	
1,2,3-Trichlorobenzene	ug/kg	19.9J	50.0	10/31/19 17:50	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/31/19 17:50	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/31/19 17:50	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/31/19 17:50	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/31/19 17:50	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/31/19 17:50	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/31/19 17:50	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/31/19 17:50	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/31/19 17:50	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/31/19 17:50	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/31/19 17:50	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/31/19 17:50	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/31/19 17:50	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/31/19 17:50	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/31/19 17:50	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/31/19 17:50	
Benzene	ug/kg	<9.2	20.0	10/31/19 17:50	
Bromobenzene	ug/kg	<20.6	50.0	10/31/19 17:50	
Bromochloromethane	ug/kg	<21.4	50.0	10/31/19 17:50	
Bromodichloromethane	ug/kg	<9.8	50.0	10/31/19 17:50	
Bromoform	ug/kg	<19.8	50.0	10/31/19 17:50	
Bromomethane	ug/kg	<69.9	250	10/31/19 17:50	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/31/19 17:50	
Chlorobenzene	ug/kg	<14.8	50.0	10/31/19 17:50	
Chloroethane	ug/kg	<67.0	250	10/31/19 17:50	
Chloroform	ug/kg	<46.4	250	10/31/19 17:50	
Chloromethane	ug/kg	<20.4	50.0	10/31/19 17:50	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/31/19 17:50	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/31/19 17:50	
Dibromochloromethane	ug/kg	<17.9	50.0	10/31/19 17:50	
Dibromomethane	ug/kg	<19.3	50.0	10/31/19 17:50	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/31/19 17:50	
Diisopropyl ether	ug/kg	<17.7	50.0	10/31/19 17:50	
Ethylbenzene	ug/kg	<12.4	50.0	10/31/19 17:50	

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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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

METHOD BLANK: 1969859 Matrix: Solid
Associated Lab Samples: 40198119002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	33.9J	50.0	10/31/19 17:50	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/31/19 17:50	
m&p-Xylene	ug/kg	<34.4	100	10/31/19 17:50	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/31/19 17:50	
Methylene Chloride	ug/kg	<16.2	50.0	10/31/19 17:50	
n-Butylbenzene	ug/kg	<10.5	50.0	10/31/19 17:50	
n-Propylbenzene	ug/kg	<11.6	50.0	10/31/19 17:50	
Naphthalene	ug/kg	<40.0	250	10/31/19 17:50	
o-Xylene	ug/kg	<14.0	50.0	10/31/19 17:50	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/31/19 17:50	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/31/19 17:50	
Styrene	ug/kg	<9.0	50.0	10/31/19 17:50	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/31/19 17:50	
Tetrachloroethene	ug/kg	<12.9	50.0	10/31/19 17:50	
Toluene	ug/kg	<11.2	50.0	10/31/19 17:50	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/31/19 17:50	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/31/19 17:50	
Trichloroethene	ug/kg	<23.6	50.0	10/31/19 17:50	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/31/19 17:50	
Vinyl chloride	ug/kg	<21.1	50.0	10/31/19 17:50	
4-Bromofluorobenzene (S)	%	94	54-126	10/31/19 17:50	
Dibromofluoromethane (S)	%	96	57-146	10/31/19 17:50	
Toluene-d8 (S)	%	107	64-134	10/31/19 17:50	

LABORATORY CONTROL SAMPLE: 1969860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2600	104	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2710	108	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2480	99	70-130	
1,1-Dichloroethane	ug/kg	2500	2730	109	70-130	
1,1-Dichloroethene	ug/kg	2500	2570	103	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	1980	79	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2610	105	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2360	94	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2510	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2630	105	70-134	
1,2-Dichloropropane	ug/kg	2500	2670	107	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2610	105	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2480	99	70-130	
Benzene	ug/kg	2500	2480	99	70-130	
Bromodichloromethane	ug/kg	2500	2520	101	70-130	
Bromoform	ug/kg	2500	2160	86	47-115	
Bromomethane	ug/kg	2500	2100	84	64-165	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

LABORATORY CONTROL SAMPLE: 1969860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2470	99	70-131	
Chlorobenzene	ug/kg	2500	2450	98	70-130	
Chloroethane	ug/kg	2500	2430	97	28-197	
Chloroform	ug/kg	2500	2440	97	80-131	
Chloromethane	ug/kg	2500	2010	81	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2300	92	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2310	92	70-130	
Dibromochloromethane	ug/kg	2500	2380	95	70-130	
Dichlorodifluoromethane	ug/kg	2500	1530	61	38-108	
Ethylbenzene	ug/kg	2500	2420	97	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2320	93	70-130	
m&p-Xylene	ug/kg	5000	4970	99	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2540	102	70-130	
Methylene Chloride	ug/kg	2500	2360	94	70-130	
o-Xylene	ug/kg	2500	2480	99	70-130	
Styrene	ug/kg	2500	2560	103	70-130	
Tetrachloroethene	ug/kg	2500	2410	96	70-130	
Toluene	ug/kg	2500	2630	105	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2610	105	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2390	96	70-130	
Trichloroethene	ug/kg	2500	2460	98	70-130	
Trichlorofluoromethane	ug/kg	2500	2560	102	81-141	
Vinyl chloride	ug/kg	2500	2130	85	68-121	
4-Bromofluorobenzene (S)	%			98	54-126	
Dibromofluoromethane (S)	%			102	57-146	
Toluene-d8 (S)	%			106	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969861 1969863

Parameter	Units	40197646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1490	1490	1290	1520	87	102	64-132	16	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1490	1490	1710	1590	115	107	70-132	7	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1490	1490	1530	1500	103	101	70-130	2	20	
1,1-Dichloroethane	ug/kg	<25.0	1490	1490	1500	1570	101	106	70-130	5	20	
1,1-Dichloroethene	ug/kg	<25.0	1490	1490	1240	1560	83	105	65-126	23	21	R1
1,2,4-Trichlorobenzene	ug/kg	<47.6	1490	1490	1590	1510	107	101	66-139	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1490	1490	1670	1720	112	115	47-146	3	23	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1490	1490	1560	1390	105	94	70-130	12	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1490	1490	1730	1610	116	108	70-130	7	20	
1,2-Dichloroethane	ug/kg	<25.0	1490	1490	1530	1500	102	101	70-136	2	20	
1,2-Dichloropropane	ug/kg	<25.0	1490	1490	1480	1540	99	104	74-124	4	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1490	1490	1720	1530	116	102	70-130	12	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1490	1490	1690	1580	114	106	70-130	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1969861 1969863

Parameter	Units	40197646002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1490	1490	1380	1430	92	96	70-130	4	20	
Bromodichloromethane	ug/kg	<25.0	1490	1490	1490	1470	100	99	70-130	1	20	
Bromoform	ug/kg	<25.0	1490	1490	1460	1350	98	91	47-129	8	20	
Bromomethane	ug/kg	<69.9	1490	1490	1160	1350	78	91	41-180	16	20	
Carbon tetrachloride	ug/kg	<25.0	1490	1490	1140	1380	77	92	58-133	18	20	
Chlorobenzene	ug/kg	<25.0	1490	1490	1450	1410	97	95	70-130	3	20	
Chloroethane	ug/kg	<67.0	1490	1490	1390	1570	93	106	28-197	13	20	
Chloroform	ug/kg	<46.4	1490	1490	1350	1370	91	92	80-131	2	20	
Chloromethane	ug/kg	<25.0	1490	1490	1150	1270	77	85	26-118	10	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1290	1370	86	92	70-130	6	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1420	1390	95	93	70-130	2	20	
Dibromochloromethane	ug/kg	<25.0	1490	1490	1510	1420	102	95	67-130	6	20	
Dichlorodifluoromethane	ug/kg	<25.0	1490	1490	762	993	51	67	12-108	26	29	
Ethylbenzene	ug/kg	<25.0	1490	1490	1350	1370	91	92	80-122	1	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1490	1490	1320	1330	89	89	70-130	1	20	
m&p-Xylene	ug/kg	<50.0	2980	2980	2840	2830	95	95	70-130	0	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1490	1490	1510	1430	102	96	70-130	5	20	
Methylene Chloride	ug/kg	<25.0	1490	1490	1380	1400	93	94	70-130	1	20	
o-Xylene	ug/kg	<25.0	1490	1490	1440	1390	97	93	70-130	3	20	
Styrene	ug/kg	<25.0	1490	1490	1470	1440	99	97	70-130	2	20	
Tetrachloroethene	ug/kg	<25.0	1490	1490	1260	1390	85	93	70-130	9	20	
Toluene	ug/kg	<25.0	1490	1490	1520	1530	100	101	80-121	1	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1490	1490	1420	1550	95	104	70-130	9	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1490	1490	1520	1430	102	96	70-130	6	20	
Trichloroethene	ug/kg	<25.0	1490	1490	1340	1450	90	97	70-130	7	20	
Trichlorofluoromethane	ug/kg	<25.0	1490	1490	1240	1520	83	102	60-141	21	26	
Vinyl chloride	ug/kg	<25.0	1490	1490	1110	1330	75	89	46-121	18	20	
4-Bromofluorobenzene (S)	%						105	107	54-126			
Dibromofluoromethane (S)	%						103	108	57-146			
Toluene-d8 (S)	%						116	115	64-134			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

QC Batch: 339311
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40198119001, 40198119004

METHOD BLANK: 1970670
Matrix: Solid
Associated Lab Samples: 40198119001, 40198119004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	10/31/19 15:30	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	10/31/19 15:30	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	10/31/19 15:30	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	10/31/19 15:30	
1,1-Dichloroethane	ug/kg	<17.6	50.0	10/31/19 15:30	
1,1-Dichloroethene	ug/kg	<17.6	50.0	10/31/19 15:30	
1,1-Dichloropropene	ug/kg	<14.0	50.0	10/31/19 15:30	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	10/31/19 15:30	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	10/31/19 15:30	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	10/31/19 15:30	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/31/19 15:30	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	10/31/19 15:30	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	10/31/19 15:30	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	10/31/19 15:30	
1,2-Dichloroethane	ug/kg	<15.0	50.0	10/31/19 15:30	
1,2-Dichloropropane	ug/kg	<16.8	50.0	10/31/19 15:30	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/31/19 15:30	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	10/31/19 15:30	
1,3-Dichloropropane	ug/kg	<12.0	50.0	10/31/19 15:30	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	10/31/19 15:30	
2,2-Dichloropropane	ug/kg	<12.6	50.0	10/31/19 15:30	
2-Chlorotoluene	ug/kg	<15.8	50.0	10/31/19 15:30	
4-Chlorotoluene	ug/kg	<13.0	50.0	10/31/19 15:30	
Benzene	ug/kg	<9.2	20.0	10/31/19 15:30	
Bromobenzene	ug/kg	<20.6	50.0	10/31/19 15:30	
Bromochloromethane	ug/kg	<21.4	50.0	10/31/19 15:30	
Bromodichloromethane	ug/kg	<9.8	50.0	10/31/19 15:30	
Bromoform	ug/kg	<19.8	50.0	10/31/19 15:30	
Bromomethane	ug/kg	<69.9	250	10/31/19 15:30	
Carbon tetrachloride	ug/kg	<12.1	50.0	10/31/19 15:30	
Chlorobenzene	ug/kg	<14.8	50.0	10/31/19 15:30	
Chloroethane	ug/kg	<67.0	250	10/31/19 15:30	
Chloroform	ug/kg	<46.4	250	10/31/19 15:30	
Chloromethane	ug/kg	<20.4	50.0	10/31/19 15:30	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	10/31/19 15:30	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	10/31/19 15:30	
Dibromochloromethane	ug/kg	<17.9	50.0	10/31/19 15:30	
Dibromomethane	ug/kg	<19.3	50.0	10/31/19 15:30	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	10/31/19 15:30	
Diisopropyl ether	ug/kg	<17.7	50.0	10/31/19 15:30	
Ethylbenzene	ug/kg	<12.4	50.0	10/31/19 15:30	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

METHOD BLANK: 1970670 Matrix: Solid
Associated Lab Samples: 40198119001, 40198119004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	28.4J	50.0	10/31/19 15:30	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	10/31/19 15:30	
m&p-Xylene	ug/kg	<34.4	100	10/31/19 15:30	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/31/19 15:30	
Methylene Chloride	ug/kg	<16.2	50.0	10/31/19 15:30	
n-Butylbenzene	ug/kg	<10.5	50.0	10/31/19 15:30	
n-Propylbenzene	ug/kg	<11.6	50.0	10/31/19 15:30	
Naphthalene	ug/kg	<40.0	250	10/31/19 15:30	
o-Xylene	ug/kg	<14.0	50.0	10/31/19 15:30	
p-Isopropyltoluene	ug/kg	<12.0	50.0	10/31/19 15:30	
sec-Butylbenzene	ug/kg	<11.9	50.0	10/31/19 15:30	
Styrene	ug/kg	<9.0	50.0	10/31/19 15:30	
tert-Butylbenzene	ug/kg	<9.5	50.0	10/31/19 15:30	
Tetrachloroethene	ug/kg	<12.9	50.0	10/31/19 15:30	
Toluene	ug/kg	<11.2	50.0	10/31/19 15:30	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	10/31/19 15:30	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	10/31/19 15:30	
Trichloroethene	ug/kg	<23.6	50.0	10/31/19 15:30	
Trichlorofluoromethane	ug/kg	<24.7	50.0	10/31/19 15:30	
Vinyl chloride	ug/kg	<21.1	50.0	10/31/19 15:30	
4-Bromofluorobenzene (S)	%	97	54-126	10/31/19 15:30	
Dibromofluoromethane (S)	%	107	57-146	10/31/19 15:30	
Toluene-d8 (S)	%	103	64-134	10/31/19 15:30	

LABORATORY CONTROL SAMPLE: 1970671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2680	107	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2460	98	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2580	103	70-130	
1,1-Dichloroethane	ug/kg	2500	2700	108	70-130	
1,1-Dichloroethene	ug/kg	2500	2580	103	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2660	106	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2460	98	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2700	108	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2590	104	70-130	
1,2-Dichloroethane	ug/kg	2500	2620	105	70-134	
1,2-Dichloropropane	ug/kg	2500	2570	103	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2650	106	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2500	100	70-130	
Benzene	ug/kg	2500	2560	102	70-130	
Bromodichloromethane	ug/kg	2500	2540	102	70-130	
Bromoform	ug/kg	2500	2690	108	47-115	
Bromomethane	ug/kg	2500	2190	88	64-165	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

LABORATORY CONTROL SAMPLE: 1970671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2630	105	70-131	
Chlorobenzene	ug/kg	2500	2610	104	70-130	
Chloroethane	ug/kg	2500	2310	92	28-197	
Chloroform	ug/kg	2500	2460	98	80-131	
Chloromethane	ug/kg	2500	1830	73	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2440	98	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2580	103	70-130	
Dibromochloromethane	ug/kg	2500	2680	107	70-130	
Dichlorodifluoromethane	ug/kg	2500	1550	62	38-108	
Ethylbenzene	ug/kg	2500	2650	106	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2680	107	70-130	
m&p-Xylene	ug/kg	5000	5380	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	96	70-130	
Methylene Chloride	ug/kg	2500	2660	106	70-130	
o-Xylene	ug/kg	2500	2640	106	70-130	
Styrene	ug/kg	2500	2660	107	70-130	
Tetrachloroethene	ug/kg	2500	2740	110	70-130	
Toluene	ug/kg	2500	2670	107	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2660	106	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2720	109	70-130	
Trichloroethene	ug/kg	2500	2650	106	70-130	
Trichlorofluoromethane	ug/kg	2500	2490	99	81-141	
Vinyl chloride	ug/kg	2500	2150	86	68-121	
4-Bromofluorobenzene (S)	%			100	54-126	
Dibromofluoromethane (S)	%			108	57-146	
Toluene-d8 (S)	%			105	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1970672 1970673

Parameter	Units	10497100068 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<0.018 mg/kg	1710	1450	1520	1430	89	98	64-132	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	<0.022 mg/kg	1710	1450	1420	1310	83	90	70-132	8	20	
1,1,2-Trichloroethane	ug/kg	<0.025 mg/kg	1710	1450	1470	1430	86	98	70-130	3	20	
1,1-Dichloroethane	ug/kg	<0.022 mg/kg	1710	1450	1570	1450	92	100	70-130	8	20	
1,1-Dichloroethene	ug/kg	<0.022 mg/kg	1710	1450	1450	1290	85	89	65-126	12	21	
1,2,4-Trichlorobenzene	ug/kg	<0.059 mg/kg	1710	1450	1530	1450	89	100	66-139	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	<0.11 mg/kg	1710	1450	1420	1400	83	96	47-146	2	23	
1,2-Dibromoethane (EDB)	ug/kg	<0.018 mg/kg	1710	1450	1510	1410	88	97	70-130	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1970672 1970673

Parameter	Units	10497100068 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/kg	<0.020 mg/kg	1710	1450	1530	1410	89	97	70-130	8	20	
1,2-Dichloroethane	ug/kg	<0.019 mg/kg	1710	1450	1510	1410	88	97	70-136	7	20	
1,2-Dichloropropane	ug/kg	<0.021 mg/kg	1710	1450	1430	1370	84	94	74-124	5	20	
1,3-Dichlorobenzene	ug/kg	<0.016 mg/kg	1710	1450	1490	1420	87	98	70-130	5	20	
1,4-Dichlorobenzene	ug/kg	<0.020 mg/kg	1710	1450	1400	1340	82	92	70-130	4	20	
Benzene	ug/kg	0.072 mg/kg	1710	1450	1510	1430	84	93	70-130	6	20	
Bromodichloromethane	ug/kg	<0.012 mg/kg	1710	1450	1420	1330	83	92	70-130	6	20	
Bromoform	ug/kg	<0.025 mg/kg	1710	1450	1430	1320	84	91	47-129	8	20	
Bromomethane	ug/kg	<0.087 mg/kg	1710	1450	1260	1220	73	84	41-180	3	20	
Carbon tetrachloride	ug/kg	<0.015 mg/kg	1710	1450	1470	1350	86	93	58-133	8	20	
Chlorobenzene	ug/kg	<0.018 mg/kg	1710	1450	1490	1410	87	97	70-130	5	20	
Chloroethane	ug/kg	<0.084 mg/kg	1710	1450	1300	1230	76	84	28-197	5	20	
Chloroform	ug/kg	<0.058 mg/kg	1710	1450	1450	1340	84	91	80-131	8	20	
Chloromethane	ug/kg	<0.026 mg/kg	1710	1450	1040	941	60	65	26-118	10	20	
cis-1,2-Dichloroethene	ug/kg	<0.021 mg/kg	1710	1450	1390	1310	81	90	70-130	6	20	
cis-1,3-Dichloropropene	ug/kg	<0.021 mg/kg	1710	1450	1400	1370	82	95	70-130	2	20	
Dibromochloromethane	ug/kg	<0.022 mg/kg	1710	1450	1460	1360	85	94	67-130	7	20	
Dichlorodifluoromethane	ug/kg	<0.015 mg/kg	1710	1450	652	565	38	39	12-108	14	29	
Ethylbenzene	ug/kg	0.077 mg/kg	1710	1450	1610	1510	89	99	80-122	6	20	
Isopropylbenzene (Cumene)	ug/kg	<0.016 mg/kg	1710	1450	1560	1460	91	101	70-130	6	20	
m&p-Xylene	ug/kg	0.84 mg/kg	3420	2910	3820	3660	87	97	70-130	4	20	
Methyl-tert-butyl ether	ug/kg	<0.016 mg/kg	1710	1450	1400	1330	82	91	70-130	6	20	
Methylene Chloride	ug/kg	<0.020 mg/kg	1710	1450	1510	1440	88	99	70-130	5	20	
o-Xylene	ug/kg	0.38 mg/kg	1710	1450	1770	1690	81	90	70-130	4	20	
Styrene	ug/kg	<0.011 mg/kg	1710	1450	1490	1420	87	98	70-130	5	20	
Tetrachloroethene	ug/kg	<0.016 mg/kg	1710	1450	1570	1480	92	102	70-130	6	20	
Toluene	ug/kg	0.50 mg/kg	1710	1450	1940	1810	84	90	80-121	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1970672 1970673

Parameter	Units	10497100068 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
trans-1,2-Dichloroethene	ug/kg	<0.021 mg/kg	1710	1450	1510	1470	88	101	70-130	3	20	
trans-1,3-Dichloropropene	ug/kg	<0.018 mg/kg	1710	1450	1510	1400	88	96	70-130	7	20	
Trichloroethene	ug/kg	<0.030 mg/kg	1710	1450	1490	1420	87	98	70-130	4	20	
Trichlorofluoromethane	ug/kg	<0.031 mg/kg	1710	1450	1360	1210	79	83	60-141	11	26	
Vinyl chloride	ug/kg	<0.026 mg/kg	1710	1450	1170	1060	68	73	46-121	10	20	
4-Bromofluorobenzene (S)	%						85	88	54-126			
Dibromofluoromethane (S)	%						96	95	57-146			
Toluene-d8 (S)	%						93	93	64-134			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

QC Batch: 339122 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40198119003, 40198119005

METHOD BLANK: 1969658 Matrix: Water
Associated Lab Samples: 40198119003, 40198119005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/30/19 07:43	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/30/19 07:43	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/30/19 07:43	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/30/19 07:43	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/30/19 07:43	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/30/19 07:43	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/30/19 07:43	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/30/19 07:43	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/30/19 07:43	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/30/19 07:43	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/30/19 07:43	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/30/19 07:43	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/30/19 07:43	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/30/19 07:43	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/30/19 07:43	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/30/19 07:43	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/30/19 07:43	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/30/19 07:43	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/30/19 07:43	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/30/19 07:43	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/30/19 07:43	
2-Chlorotoluene	ug/L	<0.93	5.0	10/30/19 07:43	
4-Chlorotoluene	ug/L	<0.76	2.5	10/30/19 07:43	
Benzene	ug/L	<0.25	1.0	10/30/19 07:43	
Bromobenzene	ug/L	<0.24	1.0	10/30/19 07:43	
Bromochloromethane	ug/L	<0.36	5.0	10/30/19 07:43	
Bromodichloromethane	ug/L	<0.36	1.2	10/30/19 07:43	
Bromoform	ug/L	<4.0	13.2	10/30/19 07:43	
Bromomethane	ug/L	<0.97	5.0	10/30/19 07:43	
Carbon tetrachloride	ug/L	<0.17	1.0	10/30/19 07:43	
Chlorobenzene	ug/L	<0.71	2.4	10/30/19 07:43	
Chloroethane	ug/L	<1.3	5.0	10/30/19 07:43	
Chloroform	ug/L	<1.3	5.0	10/30/19 07:43	
Chloromethane	ug/L	<2.2	7.3	10/30/19 07:43	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/30/19 07:43	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/30/19 07:43	
Dibromochloromethane	ug/L	<2.6	8.7	10/30/19 07:43	
Dibromomethane	ug/L	<0.94	3.1	10/30/19 07:43	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/30/19 07:43	
Diisopropyl ether	ug/L	<1.9	6.3	10/30/19 07:43	
Ethylbenzene	ug/L	<0.22	1.0	10/30/19 07:43	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

METHOD BLANK: 1969658 Matrix: Water
Associated Lab Samples: 40198119003, 40198119005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/30/19 07:43	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/30/19 07:43	
m&p-Xylene	ug/L	<0.47	2.0	10/30/19 07:43	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/30/19 07:43	
Methylene Chloride	ug/L	<0.58	5.0	10/30/19 07:43	
n-Butylbenzene	ug/L	<0.71	2.4	10/30/19 07:43	
n-Propylbenzene	ug/L	<0.81	5.0	10/30/19 07:43	
Naphthalene	ug/L	<1.2	5.0	10/30/19 07:43	
o-Xylene	ug/L	<0.26	1.0	10/30/19 07:43	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/30/19 07:43	
sec-Butylbenzene	ug/L	<0.85	5.0	10/30/19 07:43	
Styrene	ug/L	<0.47	1.6	10/30/19 07:43	
tert-Butylbenzene	ug/L	<0.30	1.0	10/30/19 07:43	
Tetrachloroethene	ug/L	<0.33	1.1	10/30/19 07:43	
Toluene	ug/L	<0.17	5.0	10/30/19 07:43	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/30/19 07:43	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/30/19 07:43	
Trichloroethene	ug/L	<0.26	1.0	10/30/19 07:43	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/30/19 07:43	
Vinyl chloride	ug/L	<0.17	1.0	10/30/19 07:43	
4-Bromofluorobenzene (S)	%	92	70-130	10/30/19 07:43	
Dibromofluoromethane (S)	%	99	70-130	10/30/19 07:43	
Toluene-d8 (S)	%	98	70-130	10/30/19 07:43	

LABORATORY CONTROL SAMPLE: 1969659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.4	91	70-130	
1,1,2-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1-Dichloroethane	ug/L	50	51.2	102	73-150	
1,1-Dichloroethene	ug/L	50	50.4	101	73-138	
1,2,4-Trichlorobenzene	ug/L	50	48.3	97	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	41.7	83	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.5	95	70-130	
1,2-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,2-Dichloroethane	ug/L	50	47.5	95	75-140	
1,2-Dichloropropane	ug/L	50	45.8	92	73-135	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	49.1	98	70-130	
Benzene	ug/L	50	47.8	96	70-130	
Bromodichloromethane	ug/L	50	47.9	96	70-130	
Bromoform	ug/L	50	46.8	94	68-129	
Bromomethane	ug/L	50	29.9	60	18-159	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

LABORATORY CONTROL SAMPLE: 1969659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	51.3	103	70-130	
Chlorobenzene	ug/L	50	49.8	100	70-130	
Chloroethane	ug/L	50	50.2	100	53-147	
Chloroform	ug/L	50	45.7	91	74-136	
Chloromethane	ug/L	50	45.4	91	29-115	
cis-1,2-Dichloroethene	ug/L	50	46.9	94	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	57.2	114	10-130	
Ethylbenzene	ug/L	50	51.8	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	48.7	97	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	45.2	90	54-137	
Methylene Chloride	ug/L	50	47.3	95	73-138	
o-Xylene	ug/L	50	52.3	105	70-130	
Styrene	ug/L	50	47.7	95	70-130	
Tetrachloroethene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	50.5	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	52.6	105	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.4	89	70-130	
Trichloroethene	ug/L	50	51.6	103	70-130	
Trichlorofluoromethane	ug/L	50	52.8	106	76-147	
Vinyl chloride	ug/L	50	53.3	107	51-120	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			97	70-130	
Toluene-d8 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

QC Batch: 339428
QC Batch Method: ASTM D2974-87
Associated Lab Samples: 40198119001, 40198119002

Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture

SAMPLE DUPLICATE: 1971208

Parameter	Units	40198311001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.3	6.3	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALIFIERS

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

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-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197210 LAKE COUNTRY SQ LSI
Pace Project No.: 40198119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40198119001	**P-1 (2)**	EPA 5035/5030B	339311	EPA 8260	339316
40198119002	**P-1 (9)**	EPA 5035/5030B	339173	EPA 8260	339177
40198119004	**MEOH BLANK**	EPA 5035/5030B	339311	EPA 8260	339316
40198119003	**P-1**	EPA 8260	339122		
40198119005	**HCL TRIP BLANK**	EPA 8260	339122		
40198119001	**P-1 (2)**	ASTM D2974-87	339428		
40198119002	**P-1 (9)**	ASTM D2974-87	339428		

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

40198119

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

(Please Print Clearly)	
Company Name:	Terracon
Branch/Location:	Franklin, WI
Project Contact:	Anthony LaBrasca
Phone:	262 501-4080
Project Number:	58197210
Project Name:	Lake County Square Lift
Project State:	WI
Sampled By (Print):	Anthony LaBrasca
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Anthony LaBrasca
Invoice To Company:	Terracon
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	Pick Letter	F	B							CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					PRESERVATION (CODE)*		VOCs	VOCs	% Moisture								
001	P-1 (2)	10/25/19	1100	S			1		1								
002	P-1 (9)	↓	1110	S			1		1								
003	P-1	↓	1145	W				3									
004	MeOH Blank	↓	-	S			1										
005	HCl Trip Blank	↓	-	W				2									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed: 11/4/19

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	10/28/19 1118	Mary Fanning	10/28/19 11:18
Mary Fanning	10/28/19 1300		
Logistics	10/29/19 0850	Susan Wilson	10/29/19 0850

PACE Project No. 40198119

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 8.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Terracon Project # 40198119

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			1			1											2.5 / 5 / 10
002																			1			1											2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																			1														2.5 / 5 / 10
005																		2															2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

10/29/19 SW

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40198119

40198119

Client Name: Terracon

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other: _____

Tracking #: _____

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

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

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

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

Cooler Temperature Uncorr: R01 /Corr:

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 10-29-19
Initials: SKW

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: S+W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for DM 10/29/19 AL **Date:** 10/29/19

Page 2 of 2

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

October 31, 2019

Anthony Labrasca
Terracon
9856 South 57th Street
Franklin, WI 53132

RE: Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Dear Anthony Labrasca:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2019. 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

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
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
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

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

SAMPLE SUMMARY

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10497157001	**VP-1**	Air	10/25/19 10:27	10/28/19 11:30

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10497157001	**VP-1**	TO-15	MG2	61	PASI-M

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

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Sample: VP-1 **Lab ID: 10497157001** Collected: 10/25/19 10:27 Received: 10/28/19 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**80.5**	ug/m3	4.7	2.4	1.97		10/29/19 19:49	67-64-1	
Benzene	**15.5**	ug/m3	1.3	0.30	1.97		10/29/19 19:49	71-43-2	
Benzyl chloride	**<2.4**	ug/m3	5.2	2.4	1.97		10/29/19 19:49	100-44-7	
Bromodichloromethane	**<0.72**	ug/m3	2.7	0.72	1.97		10/29/19 19:49	75-27-4	
Bromoform	**<2.8**	ug/m3	10.3	2.8	1.97		10/29/19 19:49	75-25-2	
Bromomethane	**<0.45**	ug/m3	1.6	0.45	1.97		10/29/19 19:49	74-83-9	
1,3-Butadiene	**<0.25**	ug/m3	0.89	0.25	1.97		10/29/19 19:49	106-99-0	
2-Butanone (MEK)	**2.0J**	ug/m3	5.9	0.73	1.97		10/29/19 19:49	78-93-3	
Carbon disulfide	**<0.43**	ug/m3	1.2	0.43	1.97		10/29/19 19:49	75-15-0	
Carbon tetrachloride	**<0.85**	ug/m3	2.5	0.85	1.97		10/29/19 19:49	56-23-5	
Chlorobenzene	**<0.54**	ug/m3	1.8	0.54	1.97		10/29/19 19:49	108-90-7	
Chloroethane	**<0.51**	ug/m3	1.1	0.51	1.97		10/29/19 19:49	75-00-3	
Chloroform	**<0.39**	ug/m3	0.98	0.39	1.97		10/29/19 19:49	67-66-3	
Chloromethane	**<0.31**	ug/m3	0.83	0.31	1.97		10/29/19 19:49	74-87-3	
Cyclohexane	**10.4**	ug/m3	3.4	0.70	1.97		10/29/19 19:49	110-82-7	
Dibromochloromethane	**<1.4**	ug/m3	3.4	1.4	1.97		10/29/19 19:49	124-48-1	
1,2-Dibromoethane (EDB)	**<0.72**	ug/m3	1.5	0.72	1.97		10/29/19 19:49	106-93-4	
1,2-Dichlorobenzene	**<0.98**	ug/m3	2.4	0.98	1.97		10/29/19 19:49	95-50-1	
1,3-Dichlorobenzene	**<1.1**	ug/m3	2.4	1.1	1.97		10/29/19 19:49	541-73-1	
1,4-Dichlorobenzene	**<2.0**	ug/m3	6.0	2.0	1.97		10/29/19 19:49	106-46-7	
Dichlorodifluoromethane	**180000**	ug/m3	1740	503	1718		10/30/19 11:58	75-71-8	
1,1-Dichloroethane	**<0.44**	ug/m3	1.6	0.44	1.97		10/29/19 19:49	75-34-3	
1,2-Dichloroethane	**<0.30**	ug/m3	0.81	0.30	1.97		10/29/19 19:49	107-06-2	
1,1-Dichloroethene	**<0.54**	ug/m3	1.6	0.54	1.97		10/29/19 19:49	75-35-4	
cis-1,2-Dichloroethene	**<0.43**	ug/m3	1.6	0.43	1.97		10/29/19 19:49	156-59-2	
trans-1,2-Dichloroethene	**<0.56**	ug/m3	1.6	0.56	1.97		10/29/19 19:49	156-60-5	
1,2-Dichloropropane	**<0.45**	ug/m3	1.8	0.45	1.97		10/29/19 19:49	78-87-5	
cis-1,3-Dichloropropene	**<0.60**	ug/m3	1.8	0.60	1.97		10/29/19 19:49	10061-01-5	
trans-1,3-Dichloropropene	**<0.87**	ug/m3	1.8	0.87	1.97		10/29/19 19:49	10061-02-6	
Dichlorotetrafluoroethane	**<0.86**	ug/m3	2.8	0.86	1.97		10/29/19 19:49	76-14-2	
Ethanol	**25.0**	ug/m3	3.8	1.6	1.97		10/29/19 19:49	64-17-5	
Ethyl acetate	**<0.37**	ug/m3	1.4	0.37	1.97		10/29/19 19:49	141-78-6	
Ethylbenzene	**5.4**	ug/m3	1.7	0.60	1.97		10/29/19 19:49	100-41-4	
4-Ethyltoluene	**<1.1**	ug/m3	4.9	1.1	1.97		10/29/19 19:49	622-96-8	
n-Heptane	**35.4**	ug/m3	1.6	0.75	1.97		10/29/19 19:49	142-82-5	
Hexachloro-1,3-butadiene	**<3.9**	ug/m3	10.7	3.9	1.97		10/29/19 19:49	87-68-3	
n-Hexane	**28.8**	ug/m3	1.4	0.61	1.97		10/29/19 19:49	110-54-3	
2-Hexanone	**<1.5**	ug/m3	8.2	1.5	1.97		10/29/19 19:49	591-78-6	
Methylene Chloride	**16.2**	ug/m3	7.0	2.4	1.97		10/29/19 19:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.0**	ug/m3	8.2	1.0	1.97		10/29/19 19:49	108-10-1	
Methyl-tert-butyl ether	**<1.3**	ug/m3	7.2	1.3	1.97		10/29/19 19:49	1634-04-4	
Naphthalene	**<2.6**	ug/m3	5.2	2.6	1.97		10/29/19 19:49	91-20-3	
2-Propanol	**4.6J**	ug/m3	4.9	1.4	1.97		10/29/19 19:49	67-63-0	
Propylene	**<0.28**	ug/m3	0.69	0.28	1.97		10/29/19 19:49	115-07-1	
Styrene	**2.7**	ug/m3	1.7	0.68	1.97		10/29/19 19:49	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.61**	ug/m3	1.4	0.61	1.97		10/29/19 19:49	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Sample: VP-1 **Lab ID: 10497157001** Collected: 10/25/19 10:27 Received: 10/28/19 11:30 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**37.9**	ug/m3	1.4	0.62	1.97		10/29/19 19:49	127-18-4	
Tetrahydrofuran	**<0.51**	ug/m3	1.2	0.51	1.97		10/29/19 19:49	109-99-9	
Toluene	**21.8**	ug/m3	1.5	0.69	1.97		10/29/19 19:49	108-88-3	
1,2,4-Trichlorobenzene	**<7.3**	ug/m3	14.9	7.3	1.97		10/29/19 19:49	120-82-1	
1,1,1-Trichloroethane	**<0.61**	ug/m3	2.2	0.61	1.97		10/29/19 19:49	71-55-6	
1,1,2-Trichloroethane	**<0.48**	ug/m3	1.1	0.48	1.97		10/29/19 19:49	79-00-5	
Trichloroethene	**5.5**	ug/m3	1.1	0.50	1.97		10/29/19 19:49	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.2	0.72	1.97		10/29/19 19:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.1**	ug/m3	3.1	1.1	1.97		10/29/19 19:49	76-13-1	
1,2,4-Trimethylbenzene	**2.6**	ug/m3	2.0	0.89	1.97		10/29/19 19:49	95-63-6	
1,3,5-Trimethylbenzene	**0.81J**	ug/m3	2.0	0.79	1.97		10/29/19 19:49	108-67-8	
Vinyl acetate	**<0.53**	ug/m3	1.4	0.53	1.97		10/29/19 19:49	108-05-4	
Vinyl chloride	**<0.25**	ug/m3	1.0	0.25	1.97		10/29/19 19:49	75-01-4	
m&p-Xylene	**8.8**	ug/m3	3.5	1.4	1.97		10/29/19 19:49	179601-23-1	
o-Xylene	**3.3**	ug/m3	1.7	0.68	1.97		10/29/19 19:49	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: 58197210 Lake County LSI
Pace Project No.: 10497157

QC Batch: 641557
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10497157001

METHOD BLANK: 3455258
Matrix: Air
Associated Lab Samples: 10497157001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	10/29/19 12:45	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	10/29/19 12:45	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	10/29/19 12:45	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	10/29/19 12:45	
1,1-Dichloroethane	ug/m3	<0.22	0.82	10/29/19 12:45	
1,1-Dichloroethene	ug/m3	<0.27	0.81	10/29/19 12:45	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	10/29/19 12:45	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	10/29/19 12:45	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	10/29/19 12:45	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	10/29/19 12:45	
1,2-Dichloroethane	ug/m3	<0.15	0.41	10/29/19 12:45	
1,2-Dichloropropane	ug/m3	<0.23	0.94	10/29/19 12:45	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	10/29/19 12:45	
1,3-Butadiene	ug/m3	<0.13	0.45	10/29/19 12:45	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	10/29/19 12:45	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	10/29/19 12:45	
2-Butanone (MEK)	ug/m3	<0.37	3.0	10/29/19 12:45	
2-Hexanone	ug/m3	<0.74	4.2	10/29/19 12:45	
2-Propanol	ug/m3	<0.70	2.5	10/29/19 12:45	
4-Ethyltoluene	ug/m3	<0.57	2.5	10/29/19 12:45	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	10/29/19 12:45	
Acetone	ug/m3	<1.2	2.4	10/29/19 12:45	
Benzene	ug/m3	<0.15	0.65	10/29/19 12:45	
Benzyl chloride	ug/m3	<1.2	2.6	10/29/19 12:45	
Bromodichloromethane	ug/m3	<0.37	1.4	10/29/19 12:45	
Bromoform	ug/m3	<1.4	5.2	10/29/19 12:45	
Bromomethane	ug/m3	<0.23	0.79	10/29/19 12:45	
Carbon disulfide	ug/m3	<0.22	0.63	10/29/19 12:45	
Carbon tetrachloride	ug/m3	<0.43	1.3	10/29/19 12:45	
Chlorobenzene	ug/m3	<0.28	0.94	10/29/19 12:45	
Chloroethane	ug/m3	<0.26	0.54	10/29/19 12:45	
Chloroform	ug/m3	<0.20	0.50	10/29/19 12:45	
Chloromethane	ug/m3	<0.16	0.42	10/29/19 12:45	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	10/29/19 12:45	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	10/29/19 12:45	
Cyclohexane	ug/m3	<0.35	1.8	10/29/19 12:45	
Dibromochloromethane	ug/m3	<0.72	1.7	10/29/19 12:45	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	10/29/19 12:45	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	10/29/19 12:45	
Ethanol	ug/m3	<0.81	1.9	10/29/19 12:45	
Ethyl acetate	ug/m3	<0.19	0.73	10/29/19 12:45	

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: 58197210 Lake County LSI
Pace Project No.: 10497157

METHOD BLANK: 3455258 Matrix: Air
Associated Lab Samples: 10497157001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	10/29/19 12:45	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	10/29/19 12:45	
m&p-Xylene	ug/m3	<0.70	1.8	10/29/19 12:45	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	10/29/19 12:45	
Methylene Chloride	ug/m3	2.3J	3.5	10/29/19 12:45	
n-Heptane	ug/m3	<0.38	0.83	10/29/19 12:45	
n-Hexane	ug/m3	<0.31	0.72	10/29/19 12:45	
Naphthalene	ug/m3	<1.3	2.7	10/29/19 12:45	
o-Xylene	ug/m3	<0.34	0.88	10/29/19 12:45	
Propylene	ug/m3	<0.14	0.35	10/29/19 12:45	
Styrene	ug/m3	<0.34	0.87	10/29/19 12:45	
Tetrachloroethene	ug/m3	<0.31	0.69	10/29/19 12:45	
Tetrahydrofuran	ug/m3	<0.26	0.60	10/29/19 12:45	
Toluene	ug/m3	<0.35	0.77	10/29/19 12:45	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	10/29/19 12:45	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	10/29/19 12:45	
Trichloroethene	ug/m3	<0.25	0.55	10/29/19 12:45	
Trichlorofluoromethane	ug/m3	<0.37	1.1	10/29/19 12:45	
Vinyl acetate	ug/m3	<0.27	0.72	10/29/19 12:45	
Vinyl chloride	ug/m3	<0.13	0.52	10/29/19 12:45	

LABORATORY CONTROL SAMPLE: 3455259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	59.9	106	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	66.6	95	70-132	
1,1,2-Trichloroethane	ug/m3	58.2	54.4	93	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	85.5	101	70-130	
1,1-Dichloroethane	ug/m3	42.4	45.0	106	70-130	
1,1-Dichloroethene	ug/m3	43.5	42.2	97	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	64.9	87	56-130	
1,2,4-Trimethylbenzene	ug/m3	53	51.3	97	70-134	
1,2-Dibromoethane (EDB)	ug/m3	83.6	79.1	95	70-130	
1,2-Dichlorobenzene	ug/m3	59.9	64.1	107	70-132	
1,2-Dichloroethane	ug/m3	42.8	43.1	101	70-130	
1,2-Dichloropropane	ug/m3	48.4	46.6	96	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.5	49.9	93	70-132	
1,3-Butadiene	ug/m3	22.5	21.6	96	65-130	
1,3-Dichlorobenzene	ug/m3	65.4	63.7	97	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	57.3	88	70-134	
2-Butanone (MEK)	ug/m3	32.4	27.4	85	70-130	
2-Hexanone	ug/m3	42.9	40.1	94	70-135	
2-Propanol	ug/m3	26.5	30.7	116	68-130	
4-Ethyltoluene	ug/m3	52	51.3	99	70-138	

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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: 58197210 Lake County LSI
Pace Project No.: 10497157

LABORATORY CONTROL SAMPLE: 3455259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	41.8	99	70-131	
Acetone	ug/m3	26.6	26.3	99	67-130	
Benzene	ug/m3	34.4	34.4	100	70-130	
Benzyl chloride	ug/m3	56.3	45.1	80	70-130	
Bromodichloromethane	ug/m3	69.5	69.2	100	70-130	
Bromoform	ug/m3	97.7	100	103	70-132	
Bromomethane	ug/m3	40.6	39.3	97	69-130	
Carbon disulfide	ug/m3	32.9	33.1	100	56-137	
Carbon tetrachloride	ug/m3	65.9	63.8	97	66-131	
Chlorobenzene	ug/m3	49.6	47.7	96	70-130	
Chloroethane	ug/m3	26.8	28.6	107	70-130	
Chloroform	ug/m3	52.6	54.2	103	70-130	
Chloromethane	ug/m3	22.2	21.0	95	66-130	
cis-1,2-Dichloroethene	ug/m3	41.9	40.4	96	70-130	
cis-1,3-Dichloropropene	ug/m3	48	44.3	92	70-133	
Cyclohexane	ug/m3	35.3	34.9	99	68-132	
Dibromochloromethane	ug/m3	90	84.7	94	70-130	
Dichlorodifluoromethane	ug/m3	52.8	52.7	100	70-130	
Dichlorotetrafluoroethane	ug/m3	74.6	73.8	99	70-130	
Ethanol	ug/m3	21.1	21.4	102	68-133	
Ethyl acetate	ug/m3	38.8	37.0	95	69-130	
Ethylbenzene	ug/m3	45.5	46.1	101	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	120	111	66-137	
m&p-Xylene	ug/m3	45.9	52.5	114	70-132	
Methyl-tert-butyl ether	ug/m3	37.4	36.7	98	70-130	
Methylene Chloride	ug/m3	38.1	39.0	102	65-130	
n-Heptane	ug/m3	43.7	41.0	94	65-130	
n-Hexane	ug/m3	37.6	35.2	93	66-130	
Naphthalene	ug/m3	52.7	53.1	101	56-130	
o-Xylene	ug/m3	44.1	45.7	103	70-130	
Propylene	ug/m3	19.2	16.6	86	67-130	
Styrene	ug/m3	44.2	44.0	100	69-136	
Tetrachloroethene	ug/m3	70.3	69.0	98	70-130	
Tetrahydrofuran	ug/m3	30.3	32.6	108	68-131	
Toluene	ug/m3	39.4	38.4	97	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	42.2	102	70-130	
trans-1,3-Dichloropropene	ug/m3	44.8	47.4	106	70-134	
Trichloroethene	ug/m3	56.3	55.0	98	70-130	
Trichlorofluoromethane	ug/m3	58.8	60.1	102	65-130	
Vinyl acetate	ug/m3	35.1	37.2	106	61-133	
Vinyl chloride	ug/m3	28.1	26.2	93	70-130	

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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: 58197210 Lake County LSI
Pace Project No.: 10497157

SAMPLE DUPLICATE: 3456886

Parameter	Units	10497063001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.46		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.46		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.36		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.84		25	
1,1-Dichloroethane	ug/m3	ND	<0.34		25	
1,1-Dichloroethene	ug/m3	ND	<0.41		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.5		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.67		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.55		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.74		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.34		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.59		25	
1,3-Butadiene	ug/m3	ND	<0.19		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.87		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.5		25	
2-Butanone (MEK)	ug/m3	ND	1.2J		25	
2-Hexanone	ug/m3	ND	<1.1		25	
2-Propanol	ug/m3	ND	<1.0		25	
4-Ethyltoluene	ug/m3	ND	<0.85		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.77		25	
Acetone	ug/m3	8.4	8.1	3	25	
Benzene	ug/m3	ND	0.39J		25	
Benzyl chloride	ug/m3	ND	<1.8		25	
Bromodichloromethane	ug/m3	ND	<0.55		25	
Bromoform	ug/m3	ND	<2.1		25	
Bromomethane	ug/m3	ND	<0.34		25	
Carbon disulfide	ug/m3	ND	<0.33		25	
Carbon tetrachloride	ug/m3	ND	<0.64		25	
Chlorobenzene	ug/m3	ND	<0.41		25	
Chloroethane	ug/m3	ND	<0.39		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	0.71	0.65	9	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.45		25	
Cyclohexane	ug/m3	ND	1.3J		25	
Dibromochloromethane	ug/m3	ND	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.6	2.8	6	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.65		25	
Ethanol	ug/m3	4.6	5.0	9	25	
Ethyl acetate	ug/m3	ND	<0.28		25	
Ethylbenzene	ug/m3	ND	<0.45		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.9		25	
m&p-Xylene	ug/m3	ND	<1.0		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.99		25	
Methylene Chloride	ug/m3	5.9	5.4	7	25	
n-Heptane	ug/m3	ND	1.0J		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: 58197210 Lake County LSI
Pace Project No.: 10497157

SAMPLE DUPLICATE: 3456886

Parameter	Units	10497063001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	2.5	2.3	6	25	
Naphthalene	ug/m3	ND	<2.0		25	
o-Xylene	ug/m3	ND	<0.51		25	
Propylene	ug/m3	ND	<0.21		25	
Styrene	ug/m3	ND	0.73J		25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
Tetrahydrofuran	ug/m3	ND	<0.39		25	
Toluene	ug/m3	ND	1.0J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.66		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.40		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

SAMPLE DUPLICATE: 3456887

Parameter	Units	60319435001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.48		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.48		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.38		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.87		25	
1,1-Dichloroethane	ug/m3	ND	<0.35		25	
1,1-Dichloroethene	ug/m3	ND	<0.42		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.8		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.70		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.57		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.77		25	
1,2-Dichloroethane	ug/m3	ND	<0.23		25	
1,2-Dichloropropane	ug/m3	ND	<0.36		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.62		25	
1,3-Butadiene	ug/m3	ND	<0.20		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.90		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.6		25	
2-Butanone (MEK)	ug/m3	ND	1.6J		25	
2-Hexanone	ug/m3	ND	<1.2		25	
2-Propanol	ug/m3	4.8	4.4	9	25	
4-Ethyltoluene	ug/m3	ND	<0.88		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.80		25	
Acetone	ug/m3	28.6	28.4	1	25	
Benzene	ug/m3	ND	0.84J		25	
Benzyl chloride	ug/m3	ND	<1.9		25	
Bromodichloromethane	ug/m3	ND	<0.57		25	
Bromoform	ug/m3	ND	<2.2		25	
Bromomethane	ug/m3	ND	<0.35		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: 58197210 Lake County LSI
Pace Project No.: 10497157

SAMPLE DUPLICATE: 3456887

Parameter	Units	60319435001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.34		25	
Carbon tetrachloride	ug/m3	ND	<0.66		25	
Chlorobenzene	ug/m3	ND	<0.43		25	
Chloroethane	ug/m3	ND	<0.40		25	
Chloroform	ug/m3	ND	<0.30		25	
Chloromethane	ug/m3	1.4	1.4	5	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.34		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.47		25	
Cyclohexane	ug/m3	ND	2.5J		25	
Dibromochloromethane	ug/m3	ND	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	2	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.68		25	
Ethanol	ug/m3	1320	1350	3	25	
Ethyl acetate	ug/m3	3.0	3.1	3	25	
Ethylbenzene	ug/m3	ND	<0.47		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.1		25	
m&p-Xylene	ug/m3	ND	1.2J		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.0		25	
Methylene Chloride	ug/m3	8.2	13.0	45	25	R1
n-Heptane	ug/m3	2.0	1.8	12	25	
n-Hexane	ug/m3	5.3	6.8	26	25	R1
Naphthalene	ug/m3	ND	<2.0		25	
o-Xylene	ug/m3	ND	<0.53		25	
Propylene	ug/m3	ND	<0.22		25	
Styrene	ug/m3	ND	<0.53		25	
Tetrachloroethene	ug/m3	ND	<0.49		25	
Tetrahydrofuran	ug/m3	ND	<0.40		25	
Toluene	ug/m3	2.5	2.4	5	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.44		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.68		25	
Trichloroethene	ug/m3	ND	<0.39		25	
Trichlorofluoromethane	ug/m3	ND	1.4J		25	
Vinyl acetate	ug/m3	ND	<0.42		25	
Vinyl chloride	ug/m3	ND	<0.20		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: 58197210 Lake County LSI
Pace Project No.: 10497157

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

R1 RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 58197210 Lake County LSI
Pace Project No.: 10497157

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10497157001	**VP-1**	TO-15	641557		

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.

46033

Page: 1 of 1

Section A Required Client Information:

Company: Terracon
Address: 9856 S. 57th St, Franklin, WI 53132
Email To: Anthony.LaBrasca@Terracon.com
Phone: 262 501-4080 Fax:
Requested Due Date/TAT: 11/4/14

Section B Required Project Information:

Report To: Anthony LaBrasca
Copy To:
Purchase Order No.:
Project Name: Lake County LSF
Project Number: 58197210

Section C Invoice Information:

Attention:
Company Name: Terracon
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep: Kristen Hoglen
Pace Profile #: 31924

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 DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE - END/GRAB DATE	COLLECTED 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	VP-1	6LC		10/25/14	959		1027	24	9	3443	1026					X					WO1
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WO#: 10497157

10497157

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anthony LaBrasca TOV	10/25/14	1530	FEDEX		
			Courier	10-28-14	1130

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Anthony LaBrasca

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 10/25/14

ORIGINAL

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 14Oct2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.19	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt **Client Name:** Terracon **Project #:** **WO#: 10497157**

PM: KNH **Due Date: 11/04/19**

CLIENT: Terracon-WI

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

Tracking Number: 1053 0281 7171

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): X **Corrected Temp (°C):** X **Thermometer Used:** ☐ G87A9170600254 ☐ G87A9155100842

Temp should be above freezing to 6°C **Correction Factor:** X **Date & Initials of Person Examining Contents:** 10-28-19 AA

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. 5 day
Sufficient Volume?	☑ Yes ☐ No	8.
Correct Containers Used?	☑ Yes ☐ No	9.
-Pace Containers Used?	☑ Yes ☐ No	
Containers Intact?	☑ 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
VP-1	3443	1026	-7.5	+5					

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hoffberg **Date:** 10/28/2019

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

December 05, 2019

Paul Lenaker
Terracon WI
9586 S 57th. St.
Franklin, WI 53132

RE: Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Dear Paul Lenaker:
Enclosed are the analytical results for sample(s) received by the laboratory on November 21, 2019. 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.

This report was revised December 5, 2019 to include additional analytes.

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: Blaine Schroyer, Terracon Environmental, Inc.

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

CERTIFICATIONS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

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: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10500306001	VP-1R	Air	11/20/19 12:04	11/21/19 11:20
10500306002	VP-2	Air	11/20/19 12:08	11/21/19 11:20
10500306003	VP-3	Air	11/20/19 14:08	11/21/19 11:20
10500306004	VP-4	Air	11/20/19 14:11	11/21/19 11:20
10500306005	VP-5	Air	11/20/19 14:13	11/21/19 11:20

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SAMPLE ANALYTE COUNT

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10500306001	VP-1R	TO-15	MJL	61	PASI-M
10500306002	VP-2	TO-15	NCK	61	PASI-M
10500306003	VP-3	TO-15	NCK	61	PASI-M
10500306004	VP-4	TO-15	NCK	61	PASI-M
10500306005	VP-5	TO-15	NCK	61	PASI-M

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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-1R **Lab ID: 10500306001** Collected: 11/20/19 12:04 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**119**	ug/m3	4.2	2.1	1.75		11/26/19 18:03	67-64-1	
Benzene	**18.1**	ug/m3	0.57	0.27	1.75		11/26/19 18:03	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		11/26/19 18:03	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		11/26/19 18:03	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		11/26/19 18:03	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		11/26/19 18:03	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		11/26/19 18:03	106-99-0	
2-Butanone (MEK)	**1.1J**	ug/m3	5.2	0.65	1.75		11/26/19 18:03	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		11/26/19 18:03	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		11/26/19 18:03	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		11/26/19 18:03	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		11/26/19 18:03	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		11/26/19 18:03	67-66-3	
Chloromethane	**<0.27**	ug/m3	0.74	0.27	1.75		11/26/19 18:03	74-87-3	
Cyclohexane	**12.3**	ug/m3	3.1	0.62	1.75		11/26/19 18:03	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		11/26/19 18:03	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		11/26/19 18:03	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		11/26/19 18:03	95-50-1	
1,3-Dichlorobenzene	**2.7**	ug/m3	2.1	1.0	1.75		11/26/19 18:03	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.4	1.8	1.75		11/26/19 18:03	106-46-7	
Dichlorodifluoromethane	**13700**	ug/m3	1.8	0.51	1.75		11/26/19 18:03	75-71-8	E
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		11/26/19 18:03	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		11/26/19 18:03	107-06-2	
1,1-Dichloroethene	**<0.48**	ug/m3	1.4	0.48	1.75		11/26/19 18:03	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		11/26/19 18:03	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		11/26/19 18:03	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		11/26/19 18:03	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		11/26/19 18:03	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	4.0	0.77	1.75		11/26/19 18:03	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		11/26/19 18:03	76-14-2	
Ethanol	**28.2**	ug/m3	3.4	1.4	1.75		11/26/19 18:03	64-17-5	
Ethyl acetate	**0.81J**	ug/m3	1.3	0.33	1.75		11/26/19 18:03	141-78-6	
Ethylbenzene	**9.8**	ug/m3	1.5	0.53	1.75		11/26/19 18:03	100-41-4	
4-Ethyltoluene	**3.2J**	ug/m3	4.4	1.0	1.75		11/26/19 18:03	622-96-8	
n-Heptane	**24.1**	ug/m3	1.5	0.66	1.75		11/26/19 18:03	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		11/26/19 18:03	87-68-3	
n-Hexane	**5.5**	ug/m3	1.3	0.54	1.75		11/26/19 18:03	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		11/26/19 18:03	591-78-6	
Methylene Chloride	**7.2**	ug/m3	6.2	2.1	1.75		11/26/19 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.2J**	ug/m3	7.3	0.91	1.75		11/26/19 18:03	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		11/26/19 18:03	1634-04-4	
Naphthalene	**<2.3**	ug/m3	4.7	2.3	1.75		11/26/19 18:03	91-20-3	
2-Propanol	**5.1**	ug/m3	4.4	1.2	1.75		11/26/19 18:03	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		11/26/19 18:03	115-07-1	
Styrene	**16.7**	ug/m3	1.5	0.60	1.75		11/26/19 18:03	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		11/26/19 18:03	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-1R **Lab ID: 10500306001** Collected: 11/20/19 12:04 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**20.4**	ug/m3	1.2	0.55	1.75		11/26/19 18:03	127-18-4	
Tetrahydrofuran	**<0.46**	ug/m3	1.0	0.46	1.75		11/26/19 18:03	109-99-9	
Toluene	**38.4**	ug/m3	1.3	0.61	1.75		11/26/19 18:03	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		11/26/19 18:03	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		11/26/19 18:03	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		11/26/19 18:03	79-00-5	
Trichloroethene	**5.3**	ug/m3	0.96	0.44	1.75		11/26/19 18:03	79-01-6	
Trichlorofluoromethane	**1.7J**	ug/m3	2.0	0.64	1.75		11/26/19 18:03	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		11/26/19 18:03	76-13-1	
1,2,4-Trimethylbenzene	**4.2**	ug/m3	1.7	0.79	1.75		11/26/19 18:03	95-63-6	
1,3,5-Trimethylbenzene	**3.1**	ug/m3	1.7	0.70	1.75		11/26/19 18:03	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		11/26/19 18:03	108-05-4	CL
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		11/26/19 18:03	75-01-4	
m&p-Xylene	**33.9**	ug/m3	3.1	1.2	1.75		11/26/19 18:03	179601-23-1	
o-Xylene	**14.7**	ug/m3	1.5	0.60	1.75		11/26/19 18:03	95-47-6	

Sample: VP-2 **Lab ID: 10500306002** Collected: 11/20/19 12:08 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**52.1**	ug/m3	4.2	2.1	1.75		11/26/19 19:01	67-64-1	
Benzene	**1.5**	ug/m3	0.57	0.27	1.75		11/26/19 19:01	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.6	2.1	1.75		11/26/19 19:01	100-44-7	
Bromodichloromethane	**<0.64**	ug/m3	2.4	0.64	1.75		11/26/19 19:01	75-27-4	
Bromoform	**<2.5**	ug/m3	9.2	2.5	1.75		11/26/19 19:01	75-25-2	
Bromomethane	**<0.40**	ug/m3	1.4	0.40	1.75		11/26/19 19:01	74-83-9	
1,3-Butadiene	**<0.22**	ug/m3	0.79	0.22	1.75		11/26/19 19:01	106-99-0	
2-Butanone (MEK)	**3.1J**	ug/m3	5.2	0.65	1.75		11/26/19 19:01	78-93-3	
Carbon disulfide	**<0.38**	ug/m3	1.1	0.38	1.75		11/26/19 19:01	75-15-0	
Carbon tetrachloride	**<0.75**	ug/m3	2.2	0.75	1.75		11/26/19 19:01	56-23-5	
Chlorobenzene	**<0.48**	ug/m3	1.6	0.48	1.75		11/26/19 19:01	108-90-7	
Chloroethane	**<0.46**	ug/m3	0.94	0.46	1.75		11/26/19 19:01	75-00-3	
Chloroform	**<0.34**	ug/m3	0.87	0.34	1.75		11/26/19 19:01	67-66-3	
Chloromethane	**0.39J**	ug/m3	0.74	0.27	1.75		11/26/19 19:01	74-87-3	
Cyclohexane	**12.4**	ug/m3	3.1	0.62	1.75		11/26/19 19:01	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.0	1.3	1.75		11/26/19 19:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.64**	ug/m3	1.4	0.64	1.75		11/26/19 19:01	106-93-4	
1,2-Dichlorobenzene	**<0.87**	ug/m3	2.1	0.87	1.75		11/26/19 19:01	95-50-1	
1,3-Dichlorobenzene	**2.8**	ug/m3	2.1	1.0	1.75		11/26/19 19:01	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.4	1.8	1.75		11/26/19 19:01	106-46-7	
Dichlorodifluoromethane	**39.8**	ug/m3	1.8	0.51	1.75		11/26/19 19:01	75-71-8	
1,1-Dichloroethane	**<0.39**	ug/m3	1.4	0.39	1.75		11/26/19 19:01	75-34-3	
1,2-Dichloroethane	**<0.26**	ug/m3	0.72	0.26	1.75		11/26/19 19:01	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-2 **Lab ID: 10500306002** Collected: 11/20/19 12:08 Received: 11/21/19 11:20 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		11/26/19 19:01	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.4	0.38	1.75		11/26/19 19:01	156-59-2	
trans-1,2-Dichloroethene	**<0.50**	ug/m3	1.4	0.50	1.75		11/26/19 19:01	156-60-5	
1,2-Dichloropropane	**<0.40**	ug/m3	1.6	0.40	1.75		11/26/19 19:01	78-87-5	
cis-1,3-Dichloropropene	**<0.53**	ug/m3	1.6	0.53	1.75		11/26/19 19:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.77**	ug/m3	4.0	0.77	1.75		11/26/19 19:01	10061-02-6	
Dichlorotetrafluoroethane	**<0.76**	ug/m3	2.5	0.76	1.75		11/26/19 19:01	76-14-2	
Ethanol	**1660**	ug/m3	3.4	1.4	1.75		11/26/19 19:01	64-17-5	E
Ethyl acetate	**0.78J**	ug/m3	1.3	0.33	1.75		11/26/19 19:01	141-78-6	
Ethylbenzene	**10.3**	ug/m3	1.5	0.53	1.75		11/26/19 19:01	100-41-4	
4-Ethyltoluene	**3.6J**	ug/m3	4.4	1.0	1.75		11/26/19 19:01	622-96-8	
n-Heptane	**20.4**	ug/m3	1.5	0.66	1.75		11/26/19 19:01	142-82-5	
Hexachloro-1,3-butadiene	**<3.4**	ug/m3	9.5	3.4	1.75		11/26/19 19:01	87-68-3	
n-Hexane	**4.1**	ug/m3	1.3	0.54	1.75		11/26/19 19:01	110-54-3	
2-Hexanone	**<1.3**	ug/m3	7.3	1.3	1.75		11/26/19 19:01	591-78-6	
Methylene Chloride	**5.8J**	ug/m3	6.2	2.1	1.75		11/26/19 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.5J**	ug/m3	7.3	0.91	1.75		11/26/19 19:01	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.4	1.2	1.75		11/26/19 19:01	1634-04-4	
Naphthalene	**4.0J**	ug/m3	4.7	2.3	1.75		11/26/19 19:01	91-20-3	
2-Propanol	**134**	ug/m3	4.4	1.2	1.75		11/26/19 19:01	67-63-0	
Propylene	**<0.24**	ug/m3	0.61	0.24	1.75		11/26/19 19:01	115-07-1	
Styrene	**21.2**	ug/m3	1.5	0.60	1.75		11/26/19 19:01	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.54**	ug/m3	1.2	0.54	1.75		11/26/19 19:01	79-34-5	
Tetrachloroethene	**0.77J**	ug/m3	1.2	0.55	1.75		11/26/19 19:01	127-18-4	
Tetrahydrofuran	**<0.46**	ug/m3	1.0	0.46	1.75		11/26/19 19:01	109-99-9	
Toluene	**30.8**	ug/m3	1.3	0.61	1.75		11/26/19 19:01	108-88-3	
1,2,4-Trichlorobenzene	**<6.5**	ug/m3	13.2	6.5	1.75		11/26/19 19:01	120-82-1	
1,1,1-Trichloroethane	**<0.54**	ug/m3	1.9	0.54	1.75		11/26/19 19:01	71-55-6	
1,1,2-Trichloroethane	**<0.42**	ug/m3	0.97	0.42	1.75		11/26/19 19:01	79-00-5	
Trichloroethene	**<0.44**	ug/m3	0.96	0.44	1.75		11/26/19 19:01	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.64	1.75		11/26/19 19:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.99**	ug/m3	2.7	0.99	1.75		11/26/19 19:01	76-13-1	
1,2,4-Trimethylbenzene	**5.1**	ug/m3	1.7	0.79	1.75		11/26/19 19:01	95-63-6	
1,3,5-Trimethylbenzene	**3.4**	ug/m3	1.7	0.70	1.75		11/26/19 19:01	108-67-8	
Vinyl acetate	**<0.47**	ug/m3	1.3	0.47	1.75		11/26/19 19:01	108-05-4	CL
Vinyl chloride	**<0.22**	ug/m3	0.46	0.22	1.75		11/26/19 19:01	75-01-4	
m&p-Xylene	**40.3**	ug/m3	3.1	1.2	1.75		11/26/19 19:01	179601-23-1	
o-Xylene	**17.5**	ug/m3	1.5	0.60	1.75		11/26/19 19:01	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-3 **Lab ID: 10500306003** Collected: 11/20/19 14:08 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**25.0**	ug/m3	4.4	2.2	1.83		11/26/19 19:29	67-64-1	
Benzene	**1.3**	ug/m3	0.59	0.28	1.83		11/26/19 19:29	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		11/26/19 19:29	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		11/26/19 19:29	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		11/26/19 19:29	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		11/26/19 19:29	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		11/26/19 19:29	106-99-0	
2-Butanone (MEK)	**2.8J**	ug/m3	5.5	0.68	1.83		11/26/19 19:29	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		11/26/19 19:29	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		11/26/19 19:29	56-23-5	
Chlorobenzene	**<0.50**	ug/m3	1.7	0.50	1.83		11/26/19 19:29	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		11/26/19 19:29	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		11/26/19 19:29	67-66-3	
Chloromethane	**<0.29**	ug/m3	0.77	0.29	1.83		11/26/19 19:29	74-87-3	
Cyclohexane	**11.6**	ug/m3	3.2	0.65	1.83		11/26/19 19:29	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		11/26/19 19:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		11/26/19 19:29	106-93-4	
1,2-Dichlorobenzene	**<0.91**	ug/m3	2.2	0.91	1.83		11/26/19 19:29	95-50-1	
1,3-Dichlorobenzene	**3.5**	ug/m3	2.2	1.1	1.83		11/26/19 19:29	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.6	1.8	1.83		11/26/19 19:29	106-46-7	
Dichlorodifluoromethane	**210**	ug/m3	1.8	0.54	1.83		11/26/19 19:29	75-71-8	
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		11/26/19 19:29	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		11/26/19 19:29	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		11/26/19 19:29	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		11/26/19 19:29	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		11/26/19 19:29	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		11/26/19 19:29	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		11/26/19 19:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	4.2	0.81	1.83		11/26/19 19:29	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		11/26/19 19:29	76-14-2	
Ethanol	**88.7**	ug/m3	3.5	1.5	1.83		11/26/19 19:29	64-17-5	
Ethyl acetate	**<0.35**	ug/m3	1.3	0.35	1.83		11/26/19 19:29	141-78-6	
Ethylbenzene	**12.6**	ug/m3	1.6	0.56	1.83		11/26/19 19:29	100-41-4	
4-Ethyltoluene	**3.8J**	ug/m3	4.6	1.0	1.83		11/26/19 19:29	622-96-8	
n-Heptane	**21.6**	ug/m3	1.5	0.70	1.83		11/26/19 19:29	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		11/26/19 19:29	87-68-3	
n-Hexane	**2.9**	ug/m3	1.3	0.57	1.83		11/26/19 19:29	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		11/26/19 19:29	591-78-6	
Methylene Chloride	**4.0J**	ug/m3	6.5	2.2	1.83		11/26/19 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.6J**	ug/m3	7.6	0.95	1.83		11/26/19 19:29	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		11/26/19 19:29	1634-04-4	
Naphthalene	**4.1J**	ug/m3	4.9	2.4	1.83		11/26/19 19:29	91-20-3	
2-Propanol	**6.9**	ug/m3	4.6	1.3	1.83		11/26/19 19:29	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		11/26/19 19:29	115-07-1	
Styrene	**29.1**	ug/m3	1.6	0.63	1.83		11/26/19 19:29	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		11/26/19 19:29	79-34-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-3 **Lab ID: 10500306003** Collected: 11/20/19 14:08 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**0.88J**	ug/m3	1.3	0.57	1.83		11/26/19 19:29	127-18-4	
Tetrahydrofuran	**<0.48**	ug/m3	1.1	0.48	1.83		11/26/19 19:29	109-99-9	
Toluene	**34.9**	ug/m3	1.4	0.64	1.83		11/26/19 19:29	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		11/26/19 19:29	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		11/26/19 19:29	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		11/26/19 19:29	79-00-5	
Trichloroethene	**<0.46**	ug/m3	1.0	0.46	1.83		11/26/19 19:29	79-01-6	
Trichlorofluoromethane	**1.3J**	ug/m3	2.1	0.67	1.83		11/26/19 19:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		11/26/19 19:29	76-13-1	
1,2,4-Trimethylbenzene	**6.7**	ug/m3	1.8	0.83	1.83		11/26/19 19:29	95-63-6	
1,3,5-Trimethylbenzene	**4.1**	ug/m3	1.8	0.73	1.83		11/26/19 19:29	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		11/26/19 19:29	108-05-4	CL
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		11/26/19 19:29	75-01-4	
m&p-Xylene	**51.8**	ug/m3	3.2	1.3	1.83		11/26/19 19:29	179601-23-1	
o-Xylene	**22.8**	ug/m3	1.6	0.63	1.83		11/26/19 19:29	95-47-6	

Sample: VP-4 **Lab ID: 10500306004** Collected: 11/20/19 14:11 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**53.8**	ug/m3	4.3	2.2	1.79		11/26/19 19:58	67-64-1	
Benzene	**2.0**	ug/m3	0.58	0.27	1.79		11/26/19 19:58	71-43-2	
Benzyl chloride	**<2.1**	ug/m3	4.7	2.1	1.79		11/26/19 19:58	100-44-7	
Bromodichloromethane	**<0.66**	ug/m3	2.4	0.66	1.79		11/26/19 19:58	75-27-4	
Bromoform	**<2.5**	ug/m3	9.4	2.5	1.79		11/26/19 19:58	75-25-2	
Bromomethane	**<0.41**	ug/m3	1.4	0.41	1.79		11/26/19 19:58	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.81	0.23	1.79		11/26/19 19:58	106-99-0	
2-Butanone (MEK)	**2.4J**	ug/m3	5.4	0.66	1.79		11/26/19 19:58	78-93-3	
Carbon disulfide	**<0.39**	ug/m3	1.1	0.39	1.79		11/26/19 19:58	75-15-0	
Carbon tetrachloride	**<0.77**	ug/m3	2.3	0.77	1.79		11/26/19 19:58	56-23-5	
Chlorobenzene	**<0.49**	ug/m3	1.7	0.49	1.79		11/26/19 19:58	108-90-7	
Chloroethane	**<0.47**	ug/m3	0.96	0.47	1.79		11/26/19 19:58	75-00-3	
Chloroform	**<0.35**	ug/m3	0.89	0.35	1.79		11/26/19 19:58	67-66-3	
Chloromethane	**<0.28**	ug/m3	0.75	0.28	1.79		11/26/19 19:58	74-87-3	
Cyclohexane	**15.2**	ug/m3	3.1	0.63	1.79		11/26/19 19:58	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.1	1.3	1.79		11/26/19 19:58	124-48-1	
1,2-Dibromoethane (EDB)	**<0.66**	ug/m3	1.4	0.66	1.79		11/26/19 19:58	106-93-4	
1,2-Dichlorobenzene	**<0.89**	ug/m3	2.2	0.89	1.79		11/26/19 19:58	95-50-1	
1,3-Dichlorobenzene	**4.0**	ug/m3	2.2	1.0	1.79		11/26/19 19:58	541-73-1	
1,4-Dichlorobenzene	**<1.8**	ug/m3	5.5	1.8	1.79		11/26/19 19:58	106-46-7	
Dichlorodifluoromethane	**57.7**	ug/m3	1.8	0.52	1.79		11/26/19 19:58	75-71-8	
1,1-Dichloroethane	**<0.40**	ug/m3	1.5	0.40	1.79		11/26/19 19:58	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.74	0.27	1.79		11/26/19 19:58	107-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-4 **Lab ID: 10500306004** Collected: 11/20/19 14:11 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.49**	ug/m3	1.4	0.49	1.79		11/26/19 19:58	75-35-4	
cis-1,2-Dichloroethene	**<0.39**	ug/m3	1.4	0.39	1.79		11/26/19 19:58	156-59-2	
trans-1,2-Dichloroethene	**<0.51**	ug/m3	1.4	0.51	1.79		11/26/19 19:58	156-60-5	
1,2-Dichloropropane	**<0.41**	ug/m3	1.7	0.41	1.79		11/26/19 19:58	78-87-5	
cis-1,3-Dichloropropene	**<0.54**	ug/m3	1.7	0.54	1.79		11/26/19 19:58	10061-01-5	
trans-1,3-Dichloropropene	**<0.79**	ug/m3	4.1	0.79	1.79		11/26/19 19:58	10061-02-6	
Dichlorotetrafluoroethane	**<0.78**	ug/m3	2.5	0.78	1.79		11/26/19 19:58	76-14-2	
Ethanol	**247**	ug/m3	3.4	1.5	1.79		11/26/19 19:58	64-17-5	
Ethyl acetate	**<0.34**	ug/m3	1.3	0.34	1.79		11/26/19 19:58	141-78-6	
Ethylbenzene	**13.3**	ug/m3	1.6	0.55	1.79		11/26/19 19:58	100-41-4	
4-Ethyltoluene	**3.7J**	ug/m3	4.5	1.0	1.79		11/26/19 19:58	622-96-8	
n-Heptane	**24.3**	ug/m3	1.5	0.68	1.79		11/26/19 19:58	142-82-5	
Hexachloro-1,3-butadiene	**<3.5**	ug/m3	9.7	3.5	1.79		11/26/19 19:58	87-68-3	
n-Hexane	**4.3**	ug/m3	1.3	0.56	1.79		11/26/19 19:58	110-54-3	
2-Hexanone	**5.1J**	ug/m3	7.4	1.3	1.79		11/26/19 19:58	591-78-6	
Methylene Chloride	**8.6**	ug/m3	6.3	2.2	1.79		11/26/19 19:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.0J**	ug/m3	7.4	0.93	1.79		11/26/19 19:58	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.6	1.2	1.79		11/26/19 19:58	1634-04-4	
Naphthalene	**4.1J**	ug/m3	4.8	2.3	1.79		11/26/19 19:58	91-20-3	
2-Propanol	**14.2**	ug/m3	4.5	1.2	1.79		11/26/19 19:58	67-63-0	
Propylene	**<0.25**	ug/m3	0.63	0.25	1.79		11/26/19 19:58	115-07-1	
Styrene	**29.8**	ug/m3	1.6	0.62	1.79		11/26/19 19:58	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.55**	ug/m3	1.2	0.55	1.79		11/26/19 19:58	79-34-5	
Tetrachloroethene	**0.91J**	ug/m3	1.2	0.56	1.79		11/26/19 19:58	127-18-4	
Tetrahydrofuran	**<0.47**	ug/m3	1.1	0.47	1.79		11/26/19 19:58	109-99-9	
Toluene	**39.2**	ug/m3	1.4	0.63	1.79		11/26/19 19:58	108-88-3	
1,2,4-Trichlorobenzene	**<6.7**	ug/m3	13.5	6.7	1.79		11/26/19 19:58	120-82-1	
1,1,1-Trichloroethane	**<0.55**	ug/m3	2.0	0.55	1.79		11/26/19 19:58	71-55-6	
1,1,2-Trichloroethane	**<0.43**	ug/m3	0.99	0.43	1.79		11/26/19 19:58	79-00-5	
Trichloroethene	**<0.45**	ug/m3	0.98	0.45	1.79		11/26/19 19:58	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	2.0	0.66	1.79		11/26/19 19:58	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.8	1.0	1.79		11/26/19 19:58	76-13-1	
1,2,4-Trimethylbenzene	**6.7**	ug/m3	1.8	0.81	1.79		11/26/19 19:58	95-63-6	
1,3,5-Trimethylbenzene	**4.0**	ug/m3	1.8	0.71	1.79		11/26/19 19:58	108-67-8	
Vinyl acetate	**<0.48**	ug/m3	1.3	0.48	1.79		11/26/19 19:58	108-05-4	CL
Vinyl chloride	**<0.23**	ug/m3	0.47	0.23	1.79		11/26/19 19:58	75-01-4	
m&p-Xylene	**53.6**	ug/m3	3.2	1.3	1.79		11/26/19 19:58	179601-23-1	
o-Xylene	**23.4**	ug/m3	1.6	0.62	1.79		11/26/19 19:58	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-5 **Lab ID: 10500306005** Collected: 11/20/19 14:13 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**38.9**	ug/m3	4.4	2.2	1.83		11/26/19 20:27	67-64-1	
Benzene	**2.5**	ug/m3	0.59	0.28	1.83		11/26/19 20:27	71-43-2	
Benzyl chloride	**<2.2**	ug/m3	4.8	2.2	1.83		11/26/19 20:27	100-44-7	
Bromodichloromethane	**<0.67**	ug/m3	2.5	0.67	1.83		11/26/19 20:27	75-27-4	
Bromoform	**<2.6**	ug/m3	9.6	2.6	1.83		11/26/19 20:27	75-25-2	
Bromomethane	**<0.42**	ug/m3	1.4	0.42	1.83		11/26/19 20:27	74-83-9	
1,3-Butadiene	**<0.23**	ug/m3	0.82	0.23	1.83		11/26/19 20:27	106-99-0	
2-Butanone (MEK)	**2.4J**	ug/m3	5.5	0.68	1.83		11/26/19 20:27	78-93-3	
Carbon disulfide	**<0.40**	ug/m3	1.2	0.40	1.83		11/26/19 20:27	75-15-0	
Carbon tetrachloride	**<0.79**	ug/m3	2.3	0.79	1.83		11/26/19 20:27	56-23-5	
Chlorobenzene	**0.62J**	ug/m3	1.7	0.50	1.83		11/26/19 20:27	108-90-7	
Chloroethane	**<0.48**	ug/m3	0.98	0.48	1.83		11/26/19 20:27	75-00-3	
Chloroform	**<0.36**	ug/m3	0.91	0.36	1.83		11/26/19 20:27	67-66-3	
Chloromethane	**<0.29**	ug/m3	0.77	0.29	1.83		11/26/19 20:27	74-87-3	
Cyclohexane	**12.2**	ug/m3	3.2	0.65	1.83		11/26/19 20:27	110-82-7	
Dibromochloromethane	**<1.3**	ug/m3	3.2	1.3	1.83		11/26/19 20:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.67**	ug/m3	1.4	0.67	1.83		11/26/19 20:27	106-93-4	
1,2-Dichlorobenzene	**2.4**	ug/m3	2.2	0.91	1.83		11/26/19 20:27	95-50-1	
1,3-Dichlorobenzene	**3.4**	ug/m3	2.2	1.1	1.83		11/26/19 20:27	541-73-1	
1,4-Dichlorobenzene	**5.7**	ug/m3	5.6	1.8	1.83		11/26/19 20:27	106-46-7	
Dichlorodifluoromethane	**3170**	ug/m3	1.8	0.54	1.83		11/26/19 20:27	75-71-8	E
1,1-Dichloroethane	**<0.41**	ug/m3	1.5	0.41	1.83		11/26/19 20:27	75-34-3	
1,2-Dichloroethane	**<0.27**	ug/m3	0.75	0.27	1.83		11/26/19 20:27	107-06-2	
1,1-Dichloroethene	**<0.50**	ug/m3	1.5	0.50	1.83		11/26/19 20:27	75-35-4	
cis-1,2-Dichloroethene	**<0.40**	ug/m3	1.5	0.40	1.83		11/26/19 20:27	156-59-2	
trans-1,2-Dichloroethene	**<0.52**	ug/m3	1.5	0.52	1.83		11/26/19 20:27	156-60-5	
1,2-Dichloropropane	**<0.42**	ug/m3	1.7	0.42	1.83		11/26/19 20:27	78-87-5	
cis-1,3-Dichloropropene	**<0.56**	ug/m3	1.7	0.56	1.83		11/26/19 20:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.81**	ug/m3	4.2	0.81	1.83		11/26/19 20:27	10061-02-6	
Dichlorotetrafluoroethane	**<0.80**	ug/m3	2.6	0.80	1.83		11/26/19 20:27	76-14-2	
Ethanol	**198**	ug/m3	3.5	1.5	1.83		11/26/19 20:27	64-17-5	
Ethyl acetate	**0.88J**	ug/m3	1.3	0.35	1.83		11/26/19 20:27	141-78-6	
Ethylbenzene	**12.2**	ug/m3	1.6	0.56	1.83		11/26/19 20:27	100-41-4	
4-Ethyltoluene	**3.6J**	ug/m3	4.6	1.0	1.83		11/26/19 20:27	622-96-8	
n-Heptane	**22.7**	ug/m3	1.5	0.70	1.83		11/26/19 20:27	142-82-5	
Hexachloro-1,3-butadiene	**<3.6**	ug/m3	9.9	3.6	1.83		11/26/19 20:27	87-68-3	
n-Hexane	**5.6**	ug/m3	1.3	0.57	1.83		11/26/19 20:27	110-54-3	
2-Hexanone	**<1.4**	ug/m3	7.6	1.4	1.83		11/26/19 20:27	591-78-6	
Methylene Chloride	**11.3**	ug/m3	6.5	2.2	1.83		11/26/19 20:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.95**	ug/m3	7.6	0.95	1.83		11/26/19 20:27	108-10-1	
Methyl-tert-butyl ether	**<1.2**	ug/m3	6.7	1.2	1.83		11/26/19 20:27	1634-04-4	
Naphthalene	**4.1J**	ug/m3	4.9	2.4	1.83		11/26/19 20:27	91-20-3	
2-Propanol	**8.7**	ug/m3	4.6	1.3	1.83		11/26/19 20:27	67-63-0	
Propylene	**<0.26**	ug/m3	0.64	0.26	1.83		11/26/19 20:27	115-07-1	
Styrene	**25.6**	ug/m3	1.6	0.63	1.83		11/26/19 20:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.57**	ug/m3	1.3	0.57	1.83		11/26/19 20:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Sample: VP-5 **Lab ID: 10500306005** Collected: 11/20/19 14:13 Received: 11/21/19 11:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**17.2**	ug/m3	1.3	0.57	1.83		11/26/19 20:27	127-18-4	
Tetrahydrofuran	**<0.48**	ug/m3	1.1	0.48	1.83		11/26/19 20:27	109-99-9	
Toluene	**37.1**	ug/m3	1.4	0.64	1.83		11/26/19 20:27	108-88-3	
1,2,4-Trichlorobenzene	**<6.8**	ug/m3	13.8	6.8	1.83		11/26/19 20:27	120-82-1	
1,1,1-Trichloroethane	**<0.57**	ug/m3	2.0	0.57	1.83		11/26/19 20:27	71-55-6	
1,1,2-Trichloroethane	**<0.44**	ug/m3	1.0	0.44	1.83		11/26/19 20:27	79-00-5	
Trichloroethene	**<0.46**	ug/m3	1.0	0.46	1.83		11/26/19 20:27	79-01-6	
Trichlorofluoromethane	**1.5J**	ug/m3	2.1	0.67	1.83		11/26/19 20:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.0**	ug/m3	2.9	1.0	1.83		11/26/19 20:27	76-13-1	
1,2,4-Trimethylbenzene	**6.0**	ug/m3	1.8	0.83	1.83		11/26/19 20:27	95-63-6	
1,3,5-Trimethylbenzene	**3.5**	ug/m3	1.8	0.73	1.83		11/26/19 20:27	108-67-8	
Vinyl acetate	**<0.49**	ug/m3	1.3	0.49	1.83		11/26/19 20:27	108-05-4	CL
Vinyl chloride	**<0.23**	ug/m3	0.48	0.23	1.83		11/26/19 20:27	75-01-4	
m&p-Xylene	**47.9**	ug/m3	3.2	1.3	1.83		11/26/19 20:27	179601-23-1	
o-Xylene	**21.0**	ug/m3	1.6	0.63	1.83		11/26/19 20:27	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: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

QC Batch: 648148 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10500306001, 10500306002, 10500306003, 10500306004, 10500306005

METHOD BLANK: 3486872 Matrix: Air
Associated Lab Samples: 10500306001, 10500306002, 10500306003, 10500306004, 10500306005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	11/26/19 13:09	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	11/26/19 13:09	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	11/26/19 13:09	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	11/26/19 13:09	
1,1-Dichloroethane	ug/m3	<0.11	0.41	11/26/19 13:09	
1,1-Dichloroethene	ug/m3	<0.14	0.40	11/26/19 13:09	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	11/26/19 13:09	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	11/26/19 13:09	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	11/26/19 13:09	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	11/26/19 13:09	
1,2-Dichloroethane	ug/m3	<0.075	0.21	11/26/19 13:09	
1,2-Dichloropropane	ug/m3	<0.12	0.47	11/26/19 13:09	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	11/26/19 13:09	
1,3-Butadiene	ug/m3	<0.064	0.22	11/26/19 13:09	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	11/26/19 13:09	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	11/26/19 13:09	
2-Butanone (MEK)	ug/m3	<0.18	1.5	11/26/19 13:09	
2-Hexanone	ug/m3	<0.37	2.1	11/26/19 13:09	
2-Propanol	ug/m3	<0.35	1.2	11/26/19 13:09	
4-Ethyltoluene	ug/m3	<0.28	1.2	11/26/19 13:09	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	11/26/19 13:09	
Acetone	ug/m3	<0.60	1.2	11/26/19 13:09	
Benzene	ug/m3	<0.076	0.16	11/26/19 13:09	
Benzyl chloride	ug/m3	<0.60	1.3	11/26/19 13:09	
Bromodichloromethane	ug/m3	<0.18	0.68	11/26/19 13:09	
Bromoform	ug/m3	<0.71	2.6	11/26/19 13:09	
Bromomethane	ug/m3	<0.11	0.39	11/26/19 13:09	
Carbon disulfide	ug/m3	<0.11	0.32	11/26/19 13:09	
Carbon tetrachloride	ug/m3	<0.21	0.64	11/26/19 13:09	
Chlorobenzene	ug/m3	<0.14	0.47	11/26/19 13:09	
Chloroethane	ug/m3	<0.13	0.27	11/26/19 13:09	
Chloroform	ug/m3	<0.098	0.25	11/26/19 13:09	
Chloromethane	ug/m3	<0.078	0.21	11/26/19 13:09	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	11/26/19 13:09	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	11/26/19 13:09	
Cyclohexane	ug/m3	<0.18	0.88	11/26/19 13:09	
Dibromochloromethane	ug/m3	<0.36	0.86	11/26/19 13:09	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	11/26/19 13:09	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	11/26/19 13:09	
Ethanol	ug/m3	<0.41	0.96	11/26/19 13:09	
Ethyl acetate	ug/m3	<0.095	0.37	11/26/19 13:09	

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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: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

METHOD BLANK: 3486872 Matrix: Air
Associated Lab Samples: 10500306001, 10500306002, 10500306003, 10500306004, 10500306005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	11/26/19 13:09	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	11/26/19 13:09	
m&p-Xylene	ug/m3	<0.35	0.88	11/26/19 13:09	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	11/26/19 13:09	
Methylene Chloride	ug/m3	<0.60	1.8	11/26/19 13:09	
n-Heptane	ug/m3	<0.19	0.42	11/26/19 13:09	
n-Hexane	ug/m3	<0.16	0.36	11/26/19 13:09	
Naphthalene	ug/m3	<0.66	1.3	11/26/19 13:09	
o-Xylene	ug/m3	<0.17	0.44	11/26/19 13:09	
Propylene	ug/m3	<0.070	0.18	11/26/19 13:09	
Styrene	ug/m3	<0.17	0.43	11/26/19 13:09	
Tetrachloroethene	ug/m3	<0.16	0.34	11/26/19 13:09	
Tetrahydrofuran	ug/m3	<0.13	0.30	11/26/19 13:09	
Toluene	ug/m3	<0.18	0.38	11/26/19 13:09	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	11/26/19 13:09	
trans-1,3-Dichloropropene	ug/m3	<0.22	1.2	11/26/19 13:09	
Trichloroethene	ug/m3	<0.13	0.27	11/26/19 13:09	
Trichlorofluoromethane	ug/m3	<0.18	0.57	11/26/19 13:09	
Vinyl acetate	ug/m3	<0.14	0.36	11/26/19 13:09	CL
Vinyl chloride	ug/m3	<0.063	0.13	11/26/19 13:09	

LABORATORY CONTROL SAMPLE: 3486873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	74.6	107	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	55.7	100	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	77.7	100	70-130	
1,1-Dichloroethane	ug/m3	41.1	40.7	99	70-130	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	70-130	
1,2,4-Trichlorobenzene	ug/m3	75.4	71.1	94	56-130	
1,2,4-Trimethylbenzene	ug/m3	50	49.9	100	70-134	
1,2-Dibromoethane (EDB)	ug/m3	78.1	79.5	102	70-130	
1,2-Dichlorobenzene	ug/m3	61.1	62.4	102	70-132	
1,2-Dichloroethane	ug/m3	41.1	42.1	102	70-130	
1,2-Dichloropropane	ug/m3	47	50.7	108	70-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.6	101	70-132	
1,3-Butadiene	ug/m3	22.5	22.5	100	65-130	
1,3-Dichlorobenzene	ug/m3	61.1	61.8	101	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	58.3	95	70-134	
2-Butanone (MEK)	ug/m3	30	29.7	99	70-130	
2-Hexanone	ug/m3	41.6	42.0	101	70-135	
2-Propanol	ug/m3	125	138	110	68-130	
4-Ethyltoluene	ug/m3	50	49.6	99	70-138	

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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: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

LABORATORY CONTROL SAMPLE: 3486873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	46.8	112	70-131	
Acetone	ug/m3	121	113	94	67-130	
Benzene	ug/m3	32.5	35.4	109	70-130	
Benzyl chloride	ug/m3	52.6	50.0	95	70-130	
Bromodichloromethane	ug/m3	68.1	71.7	105	70-130	
Bromoform	ug/m3	105	83.8	80	70-132	
Bromomethane	ug/m3	39.5	40.2	102	69-130	
Carbon disulfide	ug/m3	31.6	34.0	108	56-137	
Carbon tetrachloride	ug/m3	64	65.4	102	66-131	
Chlorobenzene	ug/m3	46.8	51.6	110	70-130	
Chloroethane	ug/m3	26.8	27.1	101	70-130	
Chloroform	ug/m3	49.6	49.9	101	70-130	
Chloromethane	ug/m3	21	19.8	94	66-130	
cis-1,2-Dichloroethene	ug/m3	40.3	44.9	111	70-130	
cis-1,3-Dichloropropene	ug/m3	46.1	46.3	100	70-133	
Cyclohexane	ug/m3	35	41.8	119	68-132	
Dibromochloromethane	ug/m3	86.6	94.6	109	70-130	
Dichlorodifluoromethane	ug/m3	50.3	45.7	91	70-130	
Dichlorotetrafluoroethane	ug/m3	71	68.9	97	70-130	
Ethanol	ug/m3	95.8	96.7	101	68-133	
Ethyl acetate	ug/m3	36.6	38.4	105	69-130	
Ethylbenzene	ug/m3	44.1	45.4	103	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	106	98	66-137	
m&p-Xylene	ug/m3	88.3	89.0	101	70-132	
Methyl-tert-butyl ether	ug/m3	36.6	43.2	118	70-130	
Methylene Chloride	ug/m3	177	168	95	65-130	
n-Heptane	ug/m3	41.7	47.5	114	65-130	
n-Hexane	ug/m3	35.8	40.0	112	66-130	
Naphthalene	ug/m3	53.3	42.6	80	56-130	
o-Xylene	ug/m3	44.1	44.5	101	70-130	
Propylene	ug/m3	17.5	17.7	101	67-130	
Styrene	ug/m3	43.3	43.8	101	69-136	
Tetrachloroethene	ug/m3	68.9	79.3	115	70-130	
Tetrahydrofuran	ug/m3	30	29.7	99	68-131	
Toluene	ug/m3	38.3	47.8	125	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.6	103	70-130	
trans-1,3-Dichloropropene	ug/m3	46.1	45.9	99	70-134	
Trichloroethene	ug/m3	54.6	59.2	108	70-130	
Trichlorofluoromethane	ug/m3	57.1	52.6	92	65-130	
Vinyl acetate	ug/m3	35.8	24.3	68	61-133	CL
Vinyl chloride	ug/m3	26	27.4	105	70-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

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

CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
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: 52197210 Lake County Square-Revised Report
Pace Project No.: 10500306

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10500306001	**VP-1R**	TO-15	648148		
10500306002	**VP-2**	TO-15	648148		
10500306003	**VP-3**	TO-15	648148		
10500306004	**VP-4**	TO-15	648148		
10500306005	**VP-5**	TO-15	648148		

Pace Analytical®
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AIR: CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

WO# : 10500306

10500306

48069

Page: 1 of 1

Section A Required Client Information:

Company: Terracon Consultants
Address: 9856 S. 57th St. Franklin, WI 53132
Email To: Paul.Lenaker.com
Phone: 414-423-0255 Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: Paul Lenaker
Copy To:
Purchase Order No.:
Project Name: Lake Country Square
Project Number: 21197210

Section C Invoice Information:

Attention: Paul Lenaker
Company Name: Terracon Consultants
Address: 9856 - S. 57th St. Franklin, WI
Pace Quote Reference:
Pace Project Manager/Sales Rep. Kirsten Hogberg
Pace Profile #: 24769

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 #	'Section D Required Client Information / 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	VP-1R	6LC	<1	11-20-19	1134	11-20-19	1204	29	8	2767	23991						1				001
2	VP-2	6LC	<1		1138		1208	29	8	1530	24233						1				002
3	VP-3	6LC	<1		1338		1408	28	9	2390	22833						1				003
4	VP-4	6LC	<1		1341		1411	25	5	2893	22211						1				004
5	VP-5	6LC	<1		1343		1413	29	7	1537	24644						1				005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Terracon	11-20-19	4:00PM	PACE	11/21/19	1120

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lukas P. Chabela

SIGNATURE of SAMPLER: DATE Signed (MM / DD / YY): 11-20-19

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 14Oct2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.19	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: TERRACON

Project #: WO# : 10500306

PM: KNH Due Date: 12/02/19

CLIENT: Terracon-WI

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial See Exception [ ]

Tracking Number: 1083 0282 3203, 3199

Custody Seal on Cooler/Box Present? [ ] Yes [X] No **Seals Intact?** [ ] Yes [X] No

Packing Material: [ ] Bubble Wrap [ ] Bubble Bags [X] Foam [ ] None [ ] Tin Can [ ] Other: _____ **Temp Blank rec:** [ ] Yes [X] No

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

Thermometer Used: [ ] G87A9170600254 [ ] G87A9155100842

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

Date & Initials of Person Examining Contents: 11/21/19 cmy

Type of ice Received [ ] Blue [ ] Wet [X] None

		Comments:
Chain of Custody Present?	[X] Yes [ ] No	1.
Chain of Custody Filled Out?	[X] Yes [ ] No	2.
Chain of Custody Relinquished?	[X] Yes [ ] No	3.
Sampler Name and/or Signature on COC?	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time?	[X] Yes [ ] No	5.
Short Hold Time Analysis (<72 hr)?	[ ] Yes [X] No	6.
Rush Turn Around Time Requested?	[ ] Yes [X] No	7.
Sufficient Volume?	[X] Yes [ ] No	8.
Correct Containers Used?	[X] Yes [ ] No	9.
-Pace Containers Used?	[X] Yes [ ] No	
Containers Intact?	[X] 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?	[X] Yes [ ] No	12.
Do cans need to be pressurized? **(DO NOT PRESSURIZE 3C or ASTM 1946!!!)**	[X] Yes [ ] No	13.

Gauge # [ ] 10AIR26 [X] 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
VP-1R	2767	2399	-7	+5					
VP-2	1530	2423	-7	+5					
VP-3	2390	2283	-8	+5					
VP-4	2843	2221	-7.5	+5					
VP-5	1537	2464	-8	+5					

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Nathan Roberg **Date:** 11/22/19

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)

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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake Country

PROJECT LOCATION: Ryan St. Pewaukee

PROJECT NO. 58197016

Sample ID / Location: ~~SV~~ VP-1 Date: 10/25/16 Time: 1027

Summa Canister #: 3443 Flow Controller #: 102C Flow Rate: ~214 cm³/min

Start Time: 959 Canister Vacuum: 24 "Hg Stop Time: 1027 Canister Vacuum: 9 "Hg

Sample Point Description & Method: Sub slab vapor

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: feet - NA

Organic Vapor Reading: 0.2 ppm PID used: #2

Volume Purged & Purge Method: He meter, 15 Mins PID 5 min

Sampling Train/Tubing Type(s)/Dia:

Cleaning Performed in Field:

Sub-Slab Leak Testing: Helium Meter Used: √ He Ambient Air: 40 ppm

He Shroud: 450 ppm

Isopropyl Alcohol (2-Propanol) used: yes or (no)

Comments / Problems:

Form Completed By: AR Date 10/25/16

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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake Country Square

PROJECT LOCATION: Pewaukee, WI

PROJECT NO. 58/9 7210

Sample ID / Location: VP-1R Date: 11-20-19 Time: 1134

Summa Canister #: 2767 Flow Controller #: 2399 Flow Rate: _____ cm³/min

Start Time: 1134 Canister Vacuum: 29 "Hg Stop Time: 1204 Canister Vacuum: 8 "Hg

Sample Point Description & Method: _____

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other _____

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: _____ feet

Organic Vapor Reading: <1 ppm PID used: MINI-RAE 3000

Volume Purged & Purge Method: _____

Sampling Train/Tubing Type(s)/Dia: _____

Cleaning Performed in Field: ✓

Sub-Slab Leak Testing: Helium Meter Used: ION GAS CHECK He Ambient Air: 20 ppm

He Shroud: 60 ppm

Isopropyl Alcohol (2-Propanol) used: yes or no -999,999 - INSIDE

Comments / Problems: PURGE 5 MIN WITH PID
PURGE 15 MIN WITH HE INSTRUMENT

Form Completed By: _____ Date 11-20-19

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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake Country Square

PROJECT LOCATION: Pewaukee, WI

PROJECT NO. 58197210

Sample ID / Location: VP-2 Date: 11-20-19 Time: 1138

Summa Canister #: 1530 Flow Controller #: 2423 Flow Rate: _____ cm³/min

Start Time: 1138 Canister Vacuum: 29 "Hg Stop Time: 1208 Canister Vacuum: 8 "Hg

Sample Point Description & Method: _____

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other _____

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: _____ feet

Organic Vapor Reading: <1 ppm PID used: MINI RAE-3000

Volume Purged & Purge Method: _____

Sampling Train/Tubing Type(s)/Dia: _____

Cleaning Performed in Field: ✓

Sub-Slab Leak Testing: Helium Meter Used: ION GAS CHECK He Ambient Air: 20 ppm

He Shroud: 60 ppm

Isopropyl Alcohol (2-Propanol) used: yes or no

~999,999 ppm INSIDE

Comments / Problems: PURGE 5 MIN WITH PID

PURGE 15 MIN WITH HE INSTRUMENT

Form Completed By: _____ Date 11-20-19

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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake County Square

PROJECT LOCATION: Pequaukee, WI

PROJECT NO. 58187210

Sample ID / Location: VP-3 Date: 11-20-19 Time: 1338

Summa Canister #: 2390 Flow Controller #: 2283 Flow Rate: _____ cm³/min

Start Time: 1338 Canister Vacuum: 28 "Hg Stop Time: 1408 Canister Vacuum: 9 "Hg

Sample Point Description & Method: _____

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other _____

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: _____ feet

Organic Vapor Reading: <1 ppm PID used: MINI-RAE-3000

Volume Purged & Purge Method: _____

Sampling Train/Tubing Type(s)/Dia: _____

Cleaning Performed in Field: ✓

Sub-Slab Leak Testing: Helium Meter Used: DON GAS CHECK He Ambient Air: 20 ppm

He Shroud: 60 ppm

Isopropyl Alcohol (2-Propanol) used: yes or no

Comments / Problems: PURGE 5 MIN WITH PID 999 999 ppm INSIDE

PURGE 15 MIN WITH DON GAS CHECK

Form Completed By: _____ Date 11-20-19

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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake Country Square

PROJECT LOCATION: Pewaukee, WI

PROJECT NO. 58187210

Sample ID / Location: UP-4 Date: 11-20-19 Time: 1341

Summa Canister #: 2843 Flow Controller #: 2221 Flow Rate: _____ cm³/min

Start Time: 1341 Canister Vacuum: 25 "Hg Stop Time: 1411 Canister Vacuum: 5 "Hg

Sample Point Description & Method: _____

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other _____

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: _____ feet

Organic Vapor Reading: <1 ppm PID used: MINI-RAE 3000

Volume Purged & Purge Method: _____

Sampling Train/Tubing Type(s)/Dia: _____

Cleaning Performed in Field: _____

Sub-Slab Leak Testing: Helium Meter Used: DON GAS CHECK He Ambient Air: 20 ppm

He Shroud: 60 ppm

Isopropyl Alcohol (2-Propanol) used: yes or no

- 999,999 PPM INSIDE

Comments / Problems: PURGE WITH PID FOR 5 MIN
PURGE 15 MIN WITH DON GAS CHECK

Form Completed By: _____ Date 11-20-19

Terracor
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SUB-SLAB/SOIL GAS / INDOOR AIR SAMPLING INFORMATION FORM

PROJECT NAME: Lake Country Square

PROJECT LOCATION: Pewaukee, WI

PROJECT NO. 5818720

Sample ID / Location: UP-5 Date: 11-20-19 Time: 1343

Summa Canister #: ~~1343~~ LPC 1537 Flow Controller #: 2464 Flow Rate: _____ cm³/min

Start Time: 1343 Canister Vacuum: 29 "Hg Stop Time: 1413 Canister Vacuum: 7 "Hg

Sample Point Description & Method: _____

For soil gas sampling

Sample Zone Soil Type (circle one): Clay Silt Sand Gravel Other _____

Apparent Moisture Content of Sampling Zone (circle one): Dry Moist Saturated

Sample Depth / Height: _____ feet

Organic Vapor Reading: <1 ppm PID used: MINI RAE 3000

Volume Purged & Purge Method: _____

Sampling Train/Tubing Type(s)/Dia: _____

Cleaning Performed in Field: ✓

Sub-Slab Leak Testing: Helium Meter Used: ION GAS CHECK He Ambient Air: 20 ppm

He Shroud: 60 ppm

Isopropyl Alcohol (2-Propanol) used: yes or no -999,999 PPM OVERRANGE

Comments / Problems: PURGED 5MIN WITH PID

PURGED 15MIN WITH ION GAS CHECK

Form Completed By: _____ Date 11-20-19