

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
Plymouth Service Center
1155 Pilgrim Road
Plymouth WI 53073

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



September 30, 2020

Mr. Greg Heitz
K and G Real Properties LLC
5301 W. River Trail
Mequon, WI 53092

SUBJECT: Results of 3rd Vapor Intrusion Sampling at 1225-1227 12th Ave.
(4th round overall in the project) Related to former Quality Cleaners, 1226 11th Avenue, Grafton
— BRRTS #: 02-46-560212

Dear Mr. Heitz:

Included are the findings of a recent investigation on your property by the Wisconsin Department of Natural Resources (DNR). As you are aware, this investigation was conducted because of the potential for contaminant vapors from the nearby former Quality Cleaners property, identified above, to migrate through soils, accumulate beneath the foundation of your property, and possibly enter the indoor air. The contaminants of concern at the former Quality Cleaners property are the dry-cleaning solvent perchloroethylene (PCE), and its daughter product trichloroethylene (TCE). The history of this site and the potential concerns to neighboring residents were described in detail in the original letter sent to you, dated October 4, 2017, *Request for Access for Sampling at 1225-1227 12th Ave., Grafton, WI*.

On April 23, 2020 the environmental contractor, AECOM, hired by the DNR, collected a 3rd sub-slab vapor sample, an indoor air sample, and an outdoor air sample from the 1225-1227 12th Ave location. The samples were submitted to Pace Analytical for TO-15 analysis, which includes the contaminants of concern listed above.

Your Test Results

Attached is a copy of the laboratory report for your samples. The results show that a small amount of PCE and TCE were detected in the samples taken from beneath your foundation, and in the indoor air sample. Although PCE and TCE were detected in soil vapors beneath your foundation floor and in the indoor air, the levels at which they were detected is such that it does not pose a threat. This is called “a detection below screening level”.

At this time, there does not appear to be a risk from the PCE and TCE vapor entering your property from beneath the foundation. No additional sampling is planned by the DNR. AECOM will contact you to schedule abandonment of the vapor sampling pin.

The laboratory report also shows very low levels of volatile organic compounds (VOCs) other than PCE and TCE in soil vapors from beneath your building. This is likely due to trace amounts of VOCs from products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or office, and unrelated to the activities that took place at Quality Cleaners in the past.

Please call me, the DNR project manager, at your earliest convenience, at 920-893-8523, or via email at johnm.feeney@wisconsin.gov if you have any questions. Please direct health related questions to Mr. Curtis Hedman at the Department of Health and Human Services at 608-266-6677, or email at Curtis.Hedman@wisconsin.gov.

Sincerely,

A handwritten signature in black ink that reads "John Feeney". The signature is written in a cursive style with a large initial "J" and "F".

John Feeney, PG
Hydrogeologist
Remediation & Redevelopment Program

Cc: Mr. Tory Schultz, AECOM
Mr. Curtis Hedman, DHS

Attachments: Laboratory Analytical Sheets
Sample Location Map
Email with tabulated Results

From: Schultz, Tory <Tory.Schultz@aecom.com>
Sent: Wednesday, May 13, 2020 1:02 PM
To: Feeney, John M - DNR
Cc: Altenbach, Lanette; Mulcahy, Connor
Subject: Former Quality Cleaners Off-site Vapor Intrusion Assessment (BRRTS #02-46-560212) - Third and FINAL Sample Event Results
Attachments: Lab.Report_APR2020_gw.pdf; Lab.Report_APR2020_1225_1227_12thAve.pdf; Lab.Report_APR2020_1102BridgeSt.pdf

Good afternoon John,

Here are the results of AECOM’s VI testing in Grafton during April 2020. Sorry for the delay. During QC review we identified errors and requested revised laboratory reports which have been attached.

On April 22nd-23rd, 2020, AECOM conducted work associated with the Former Quality Cleaners Off-site Vapor Intrusion Assessment. Two sub-slab vapor pins at off-site locations were sampled (SS-4 and SS-5). One indoor air and one outdoor ambient air sample were collected from 1225-1227 12th Avenue. Air samples were collected in laboratory-supplied Summa canisters and were analyzed by method TO-15 by Pace Analytical in Minneapolis, MN. Field sampling was conducted in general accordance with the WDNR vapor intrusion guidance (RR-986) and compared to the most conservative values (Residential Wisc. Admin § NR 700.03(49g)) shown on the WI Vapor Quick Look-Up Table for Indoor Air Vapor Action Levels (VAL) and Vapor Risk Screening Levels (VRSL), dated November 2017. Results from this vapor intrusion sampling event collected during the cooling season are summarized below and the laboratory report is attached. All ambient, indoor air, and sub-slab vapor samples were reported below VALs and VRSLs, respectively. Figure 1 shows locations of the vapor pins on each property along with the indoor and outdoor ambient air sample collection points.

On April 22nd, AECOM collected groundwater samples from the two monitoring wells (MW1 & MW2) at the Former Quality Cleaners property.

Air Sample Methodology

Vapor pins were installed during the initial site visit on July 23rd, 2019. Indoor and outdoor ambient air samples were initiated on April 22nd, 2020. On April 23rd, 2020, field staff returned to the properties to collect sub-slab vapor samples and collect the 24-hour ambient outdoor and indoor air samples. Prior to collection of sub-slab vapor samples, leak testing by use of a water dam and shut-in test with a laboratory-supplied Purge Manifold Assembly confirmed each vapor pin was properly installed and the sample train was constructed without leaks.

Table 1 – Summary of Air Sampling Results for PCE (µg/m³)

Assessment Property	Sample ID	July 2019 (Cooling)	November 2019 (Warming)	February 2020 (Warming)	April 2020 (Cooling)
1102 Bridge Street	SS-1	3.9	1.7	1.0 J	Not Sampled
	SS-5	Vapor Pin installed at later date	2.8	3.9	1.1 J
1233 12 th Avenue	SS-2	1,390	85.4	35.9	Not Sampled
	SS-3	169	491	335	Not Sampled
	OA-1 (AA-1)	ND	ND	ND	Not Sampled
	IA-1 (AI-1)	1.1	2.5	2.5	Not Sampled
1225-1227 12 th Avenue	SS-4	2.8	Access Denied During this event	0.79 J	0.76 J
	OA-2 (AA-2)	ND		ND	ND

	IA-2 (AI-2)	ND		2.3	1.4
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Table 1 Notes

SS = sub-slab vapor sample collected at a rate of approximately 200mL/minute
 OA = Outdoor Ambient air 24-hour sample duration, labeled “AA” during July 2019 sampling event.
 IA = indoor air 24-hour sample duration, labeled “AI” during July 2019 sampling event.
 Sub-Slab vapor risk screening level 1,400 µg/m³
 ND = Non Detect
 J = Estimated concentration at or above the Limit of Detection but below the Limit of Quantitation
 Not Sampled = Contract required three sampling events previously completed

Deviations from the Sampling and Analysis Plan

1. In place of a helium shroud to confirm a proper seal of the VP, Pace Analytical supplied a dedicated Purge Manifold Assembly (PMA) for each sample location to perform a shut-in test on the sample train prior to sample collection. Leak testing each sample train was conducted according to Pace Analytical’s Assembly of the Purge Manifold Assembly (PMA).

Groundwater Sample Methodology

Depth to water at each groundwater monitoring well was measured, purging, and sampled on April 22, 2020. Each monitoring well was purged at minimum of three well volumes with a new disposable bailer. Water quality parameters (After purging, samples were taken via bailer. Care was taken to not agitate the water with the bailer during purging, sampling, or filling of the sample vials.

Sample labels were adhered to each sample vial containing the sample identification number (project and facility), date and time of collection, analysis to be conducted, preservative, and the sampler’s initials. A chain-of-custody (COC) form was completed after sample collection and the samples were placed in a cooler and shipped under standard COC procedures to the analytical laboratory (Pace Analytical in Green Bay, WI).

Table 2 – Summary of Groundwater Sampling from Former Quality Cleaner Property

Monitoring Well	Sample ID	DTW (feet)	PCE (µg/m ³)
MW-1	MW-1-042220	6.74	7.7
MW-2	MW-2-042220	6.45	<u>2.4</u>

Table 2Notes

DTW=Depth to Water (feet)
 PCE PAL = 0.5 µg/m³ (exceedance *italicized and underlined*)
 PCE ES = 5 µg/m³ (exceedance **bold**)
 All other VOCs analyzed for the wells listed above were non-detect

Further Work

With the completion of the third sampling event and added scope of groundwater sampling two wells, remaining work includes removal of the five vapor pins from the building’s concrete flooring and seal the holes. The estimated budget for this proposed work is approximately \$1,000.
 Please let us know if you have comments or questions.

Kind regards,

Tory Schultz
 Senior Project Manager, Environment, Central Region
 D +1-414-944-6168
 M +1-414-690-8405
tory.schultz@aecom.com

AECOM

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File: \\usmwwk1fs001\proj\Data\Projects\60602996\900_CAD_GIS\CAD\Grafton_VI_Assessment.dwg; USER: SCHULTZ, TORI; PLOTTED: August 13, 2019 - 2:40 PM



Legend:

- Sub-slab Vapor Probe and Identification Number
- Ⓜ Indoor Air Sample Location and Identification Number
- Ⓐ Ambient Air Sample Location and Identification Number

Notes:

1. Aerial photograph from Google Earth Pro dated 10/10/2013.



AECOM
 Milwaukee Office
 1555 RiverCenter Dr
 Milwaukee, WI
 414.944.6080



GRAFTON VI ASSESSMENT

VAPOR INTRUSION ASSESSMENT
SAMPLE LOCATIONS

Project Number:
60602996

Drawn By:
TAS

Date:
2/6/2020

Figure No. 1

April 28, 2020

Lanette Altenbach
AECOM
1555 N RiverCenter Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Minneapolis

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

Sincerely,



Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

cc: Tory Schultz, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Pace Analytical Services Minneapolis

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

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SAMPLE SUMMARY

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10515889001	OA-2 (1225-1227 12th Ave)	Air	04/23/20 10:12	04/24/20 11:50
10515889002	IA-2 (1225-1227 12th Ave)	Air	04/23/20 10:07	04/24/20 11:50
10515889003	SS-4 (1225-1227 12th Ave)	Air	04/23/20 10:48	04/24/20 11:50

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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10515889001	OA-2 (1225-1227 12th Ave)	TO-15	MLS	61	PASI-M
10515889002	IA-2 (1225-1227 12th Ave)	TO-15	MLS	61	PASI-M
10515889003	SS-4 (1225-1227 12th Ave)	TO-15	MLS	61	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
10515889001	OA-2 (1225-1227 12th Ave)					
TO-15	Benzene	0.42J	ug/m3	0.65	04/27/20 19:16	
TO-15	Chloromethane	0.98	ug/m3	0.84	04/27/20 19:16	
TO-15	Cyclohexane	0.76J	ug/m3	3.5	04/27/20 19:16	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	2.0	04/27/20 19:16	
TO-15	Ethanol	18.6	ug/m3	3.9	04/27/20 19:16	
TO-15	n-Hexane	0.55J	ug/m3	1.4	04/27/20 19:16	
TO-15	Propylene	0.92	ug/m3	0.70	04/27/20 19:16	
TO-15	Toluene	0.44J	ug/m3	1.5	04/27/20 19:16	
TO-15	Trichlorofluoromethane	1.2J	ug/m3	2.3	04/27/20 19:16	
TO-15	1,1,2-Trichlorotrifluoroethane	0.55J	ug/m3	3.1	04/27/20 19:16	
10515889002	IA-2 (1225-1227 12th Ave)					
TO-15	Acetone	27.7	ug/m3	8.7	04/27/20 20:12	
TO-15	Benzene	0.42J	ug/m3	0.47	04/27/20 20:12	
TO-15	Chloromethane	1.1	ug/m3	0.60	04/27/20 20:12	
TO-15	Cyclohexane	1.1J	ug/m3	2.5	04/27/20 20:12	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.5	04/27/20 20:12	
TO-15	1,2-Dichloroethane	0.42J	ug/m3	0.59	04/27/20 20:12	
TO-15	Ethanol	350	ug/m3	2.8	04/27/20 20:12	
TO-15	Ethyl acetate	0.69J	ug/m3	1.1	04/27/20 20:12	
TO-15	n-Heptane	1.0J	ug/m3	1.2	04/27/20 20:12	
TO-15	2-Propanol	15.9	ug/m3	3.6	04/27/20 20:12	
TO-15	Propylene	1.4	ug/m3	0.50	04/27/20 20:12	
TO-15	Tetrachloroethene	1.4	ug/m3	0.99	04/27/20 20:12	
TO-15	Toluene	0.96J	ug/m3	1.1	04/27/20 20:12	
TO-15	Trichlorofluoromethane	1.2J	ug/m3	1.6	04/27/20 20:12	
TO-15	1,2,4-Trimethylbenzene	0.48J	ug/m3	1.4	04/27/20 20:12	
10515889003	SS-4 (1225-1227 12th Ave)					
TO-15	2-Butanone (MEK)	1.0J	ug/m3	4.8	04/27/20 20:40	
TO-15	Dichlorodifluoromethane	2.7	ug/m3	1.6	04/27/20 20:40	
TO-15	Ethanol	88.2	ug/m3	3.1	04/27/20 20:40	
TO-15	Ethyl acetate	1.6	ug/m3	1.2	04/27/20 20:40	
TO-15	Ethylbenzene	1.0J	ug/m3	1.4	04/27/20 20:40	
TO-15	n-Heptane	0.69J	ug/m3	1.3	04/27/20 20:40	
TO-15	n-Hexane	0.51J	ug/m3	1.2	04/27/20 20:40	
TO-15	2-Propanol	0.95J	ug/m3	4.0	04/27/20 20:40	
TO-15	Tetrachloroethene	0.76J	ug/m3	1.1	04/27/20 20:40	
TO-15	Toluene	3.5	ug/m3	1.2	04/27/20 20:40	
TO-15	Trichloroethene	7.4	ug/m3	0.88	04/27/20 20:40	
TO-15	Trichlorofluoromethane	1.7J	ug/m3	1.8	04/27/20 20:40	
TO-15	1,1,2-Trichlorotrifluoroethane	0.60J	ug/m3	2.5	04/27/20 20:40	
TO-15	1,2,4-Trimethylbenzene	1.5J	ug/m3	1.6	04/27/20 20:40	
TO-15	1,3,5-Trimethylbenzene	0.84J	ug/m3	1.6	04/27/20 20:40	
TO-15	m&p-Xylene	4.9	ug/m3	2.8	04/27/20 20:40	
TO-15	o-Xylene	1.5	ug/m3	1.4	04/27/20 20:40	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Sample: OA-2 (1225-1227 12th Ave) Lab ID: 10515889001 Collected: 04/23/20 10:12 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	<2.6	ug/m3	12.1	2.6	2.01		04/27/20 19:16	67-64-1	
Benzene	0.42J	ug/m3	0.65	0.26	2.01		04/27/20 19:16	71-43-2	
Benzyl chloride	<0.95	ug/m3	5.3	0.95	2.01		04/27/20 19:16	100-44-7	
Bromodichloromethane	<0.35	ug/m3	2.7	0.35	2.01		04/27/20 19:16	75-27-4	
Bromoform	<3.6	ug/m3	10.6	3.6	2.01		04/27/20 19:16	75-25-2	
Bromomethane	<0.29	ug/m3	1.6	0.29	2.01		04/27/20 19:16	74-83-9	
1,3-Butadiene	<0.21	ug/m3	0.90	0.21	2.01		04/27/20 19:16	106-99-0	
2-Butanone (MEK)	<1.1	ug/m3	6.0	1.1	2.01		04/27/20 19:16	78-93-3	
Carbon disulfide	<0.22	ug/m3	1.3	0.22	2.01		04/27/20 19:16	75-15-0	
Carbon tetrachloride	<0.51	ug/m3	2.6	0.51	2.01		04/27/20 19:16	56-23-5	
Chlorobenzene	<0.27	ug/m3	1.9	0.27	2.01		04/27/20 19:16	108-90-7	
Chloroethane	<0.25	ug/m3	1.1	0.25	2.01		04/27/20 19:16	75-00-3	
Chloroform	<0.27	ug/m3	1.0	0.27	2.01		04/27/20 19:16	67-66-3	
Chloromethane	0.98	ug/m3	0.84	0.13	2.01		04/27/20 19:16	74-87-3	
Cyclohexane	0.76J	ug/m3	3.5	0.29	2.01		04/27/20 19:16	110-82-7	
Dibromochloromethane	<0.81	ug/m3	3.5	0.81	2.01		04/27/20 19:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.55	ug/m3	1.6	0.55	2.01		04/27/20 19:16	106-93-4	
1,2-Dichlorobenzene	<0.64	ug/m3	2.5	0.64	2.01		04/27/20 19:16	95-50-1	
1,3-Dichlorobenzene	<0.96	ug/m3	2.5	0.96	2.01		04/27/20 19:16	541-73-1	
1,4-Dichlorobenzene	<1.5	ug/m3	6.2	1.5	2.01		04/27/20 19:16	106-46-7	
Dichlorodifluoromethane	2.7	ug/m3	2.0	0.34	2.01		04/27/20 19:16	75-71-8	
1,1-Dichloroethane	<0.23	ug/m3	1.7	0.23	2.01		04/27/20 19:16	75-34-3	
1,2-Dichloroethane	<0.34	ug/m3	0.83	0.34	2.01		04/27/20 19:16	107-06-2	
1,1-Dichloroethene	<0.24	ug/m3	1.6	0.24	2.01		04/27/20 19:16	75-35-4	
cis-1,2-Dichloroethene	<0.23	ug/m3	1.6	0.23	2.01		04/27/20 19:16	156-59-2	
trans-1,2-Dichloroethene	<0.34	ug/m3	1.6	0.34	2.01		04/27/20 19:16	156-60-5	
1,2-Dichloropropane	<0.40	ug/m3	1.9	0.40	2.01		04/27/20 19:16	78-87-5	
cis-1,3-Dichloropropene	<0.75	ug/m3	1.9	0.75	2.01		04/27/20 19:16	10061-01-5	
trans-1,3-Dichloropropene	<0.53	ug/m3	1.9	0.53	2.01		04/27/20 19:16	10061-02-6	
Dichlorotetrafluoroethane	<0.32	ug/m3	2.9	0.32	2.01		04/27/20 19:16	76-14-2	
Ethanol	18.6	ug/m3	3.9	1.9	2.01		04/27/20 19:16	64-17-5	
Ethyl acetate	<0.37	ug/m3	1.5	0.37	2.01		04/27/20 19:16	141-78-6	
Ethylbenzene	<0.28	ug/m3	1.8	0.28	2.01		04/27/20 19:16	100-41-4	
4-Ethyltoluene	<0.86	ug/m3	5.0	0.86	2.01		04/27/20 19:16	622-96-8	
n-Heptane	<0.40	ug/m3	1.7	0.40	2.01		04/27/20 19:16	142-82-5	
Hexachloro-1,3-butadiene	<2.5	ug/m3	10.9	2.5	2.01		04/27/20 19:16	87-68-3	
n-Hexane	0.55J	ug/m3	1.4	0.40	2.01		04/27/20 19:16	110-54-3	
2-Hexanone	<0.69	ug/m3	8.4	0.69	2.01		04/27/20 19:16	591-78-6	
Methylene Chloride	<1.9	ug/m3	7.1	1.9	2.01		04/27/20 19:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.36	ug/m3	8.4	0.36	2.01		04/27/20 19:16	108-10-1	
Methyl-tert-butyl ether	<0.20	ug/m3	7.4	0.20	2.01		04/27/20 19:16	1634-04-4	
Naphthalene	<2.6	ug/m3	5.3	2.6	2.01		04/27/20 19:16	91-20-3	
2-Propanol	<0.76	ug/m3	5.0	0.76	2.01		04/27/20 19:16	67-63-0	
Propylene	0.92	ug/m3	0.70	0.20	2.01		04/27/20 19:16	115-07-1	
Styrene	<0.86	ug/m3	1.7	0.86	2.01		04/27/20 19:16	100-42-5	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Sample: OA-2 (1225-1227 12th Ave) **Lab ID: 10515889001** Collected: 04/23/20 10:12 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.62	ug/m3	1.4	0.62	2.01		04/27/20 19:16	79-34-5	
Tetrachloroethene	<0.54	ug/m3	1.4	0.54	2.01		04/27/20 19:16	127-18-4	
Tetrahydrofuran	<0.37	ug/m3	1.2	0.37	2.01		04/27/20 19:16	109-99-9	
Toluene	0.44J	ug/m3	1.5	0.34	2.01		04/27/20 19:16	108-88-3	
1,2,4-Trichlorobenzene	<6.7	ug/m3	15.2	6.7	2.01		04/27/20 19:16	120-82-1	
1,1,1-Trichloroethane	<0.31	ug/m3	2.2	0.31	2.01		04/27/20 19:16	71-55-6	
1,1,2-Trichloroethane	<0.40	ug/m3	1.1	0.40	2.01		04/27/20 19:16	79-00-5	
Trichloroethene	<0.44	ug/m3	1.1	0.44	2.01		04/27/20 19:16	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	2.3	0.46	2.01		04/27/20 19:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.55J	ug/m3	3.1	0.52	2.01		04/27/20 19:16	76-13-1	
1,2,4-Trimethylbenzene	<0.63	ug/m3	2.0	0.63	2.01		04/27/20 19:16	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/m3	2.0	0.50	2.01		04/27/20 19:16	108-67-8	
Vinyl acetate	<0.36	ug/m3	1.4	0.36	2.01		04/27/20 19:16	108-05-4	
Vinyl chloride	<0.19	ug/m3	0.52	0.19	2.01		04/27/20 19:16	75-01-4	
m&p-Xylene	<0.68	ug/m3	3.6	0.68	2.01		04/27/20 19:16	179601-23-1	
o-Xylene	<0.30	ug/m3	1.8	0.30	2.01		04/27/20 19:16	95-47-6	

Sample: IA-2 (1225-1227 12th Ave) **Lab ID: 10515889002** Collected: 04/23/20 10:07 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	27.7	ug/m3	8.7	1.8	1.44		04/27/20 20:12	67-64-1	
Benzene	0.42J	ug/m3	0.47	0.19	1.44		04/27/20 20:12	71-43-2	
Benzyl chloride	<0.68	ug/m3	3.8	0.68	1.44		04/27/20 20:12	100-44-7	
Bromodichloromethane	<0.25	ug/m3	2.0	0.25	1.44		04/27/20 20:12	75-27-4	
Bromoform	<2.6	ug/m3	7.6	2.6	1.44		04/27/20 20:12	75-25-2	
Bromomethane	<0.21	ug/m3	1.1	0.21	1.44		04/27/20 20:12	74-83-9	
1,3-Butadiene	<0.15	ug/m3	0.65	0.15	1.44		04/27/20 20:12	106-99-0	
2-Butanone (MEK)	<0.80	ug/m3	4.3	0.80	1.44		04/27/20 20:12	78-93-3	
Carbon disulfide	<0.15	ug/m3	0.91	0.15	1.44		04/27/20 20:12	75-15-0	
Carbon tetrachloride	<0.37	ug/m3	1.8	0.37	1.44		04/27/20 20:12	56-23-5	
Chlorobenzene	<0.19	ug/m3	1.3	0.19	1.44		04/27/20 20:12	108-90-7	
Chloroethane	<0.18	ug/m3	0.77	0.18	1.44		04/27/20 20:12	75-00-3	
Chloroform	<0.19	ug/m3	0.71	0.19	1.44		04/27/20 20:12	67-66-3	
Chloromethane	1.1	ug/m3	0.60	0.095	1.44		04/27/20 20:12	74-87-3	
Cyclohexane	1.1J	ug/m3	2.5	0.21	1.44		04/27/20 20:12	110-82-7	
Dibromochloromethane	<0.58	ug/m3	2.5	0.58	1.44		04/27/20 20:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.40	ug/m3	1.1	0.40	1.44		04/27/20 20:12	106-93-4	
1,2-Dichlorobenzene	<0.46	ug/m3	1.8	0.46	1.44		04/27/20 20:12	95-50-1	
1,3-Dichlorobenzene	<0.69	ug/m3	1.8	0.69	1.44		04/27/20 20:12	541-73-1	
1,4-Dichlorobenzene	<1.1	ug/m3	4.4	1.1	1.44		04/27/20 20:12	106-46-7	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Sample: IA-2 (1225-1227 12th Ave) Lab ID: 10515889002 Collected: 04/23/20 10:07 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Dichlorodifluoromethane	2.5	ug/m3	1.5	0.24	1.44		04/27/20 20:12	75-71-8	
1,1-Dichloroethane	<0.16	ug/m3	1.2	0.16	1.44		04/27/20 20:12	75-34-3	
1,2-Dichloroethane	0.42J	ug/m3	0.59	0.24	1.44		04/27/20 20:12	107-06-2	
1,1-Dichloroethene	<0.17	ug/m3	1.2	0.17	1.44		04/27/20 20:12	75-35-4	
cis-1,2-Dichloroethene	<0.17	ug/m3	1.2	0.17	1.44		04/27/20 20:12	156-59-2	
trans-1,2-Dichloroethene	<0.24	ug/m3	1.2	0.24	1.44		04/27/20 20:12	156-60-5	
1,2-Dichloropropane	<0.29	ug/m3	1.4	0.29	1.44		04/27/20 20:12	78-87-5	
cis-1,3-Dichloropropene	<0.53	ug/m3	1.3	0.53	1.44		04/27/20 20:12	10061-01-5	
trans-1,3-Dichloropropene	<0.38	ug/m3	1.3	0.38	1.44		04/27/20 20:12	10061-02-6	
Dichlorotetrafluoroethane	<0.23	ug/m3	2.0	0.23	1.44		04/27/20 20:12	76-14-2	
Ethanol	350	ug/m3	2.8	1.4	1.44		04/27/20 20:12	64-17-5	
Ethyl acetate	0.69J	ug/m3	1.1	0.26	1.44		04/27/20 20:12	141-78-6	
Ethylbenzene	<0.20	ug/m3	1.3	0.20	1.44		04/27/20 20:12	100-41-4	
4-Ethyltoluene	<0.62	ug/m3	3.6	0.62	1.44		04/27/20 20:12	622-96-8	
n-Heptane	1.0J	ug/m3	1.2	0.28	1.44		04/27/20 20:12	142-82-5	
Hexachloro-1,3-butadiene	<1.8	ug/m3	7.8	1.8	1.44		04/27/20 20:12	87-68-3	
n-Hexane	<0.29	ug/m3	1.0	0.29	1.44		04/27/20 20:12	110-54-3	
2-Hexanone	<0.50	ug/m3	6.0	0.50	1.44		04/27/20 20:12	591-78-6	
Methylene Chloride	<1.3	ug/m3	5.1	1.3	1.44		04/27/20 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.25	ug/m3	6.0	0.25	1.44		04/27/20 20:12	108-10-1	
Methyl-tert-butyl ether	<0.14	ug/m3	5.3	0.14	1.44		04/27/20 20:12	1634-04-4	
Naphthalene	<1.8	ug/m3	3.8	1.8	1.44		04/27/20 20:12	91-20-3	
2-Propanol	15.9	ug/m3	3.6	0.55	1.44		04/27/20 20:12	67-63-0	
Propylene	1.4	ug/m3	0.50	0.14	1.44		04/27/20 20:12	115-07-1	
Styrene	<0.62	ug/m3	1.2	0.62	1.44		04/27/20 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	0.44	1.44		04/27/20 20:12	79-34-5	
Tetrachloroethene	1.4	ug/m3	0.99	0.39	1.44		04/27/20 20:12	127-18-4	
Tetrahydrofuran	<0.26	ug/m3	0.86	0.26	1.44		04/27/20 20:12	109-99-9	
Toluene	0.96J	ug/m3	1.1	0.25	1.44		04/27/20 20:12	108-88-3	
1,2,4-Trichlorobenzene	<4.8	ug/m3	10.9	4.8	1.44		04/27/20 20:12	120-82-1	
1,1,1-Trichloroethane	<0.22	ug/m3	1.6	0.22	1.44		04/27/20 20:12	71-55-6	
1,1,2-Trichloroethane	<0.29	ug/m3	0.80	0.29	1.44		04/27/20 20:12	79-00-5	
Trichloroethene	<0.32	ug/m3	0.79	0.32	1.44		04/27/20 20:12	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	1.6	0.33	1.44		04/27/20 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.37	ug/m3	2.2	0.37	1.44		04/27/20 20:12	76-13-1	
1,2,4-Trimethylbenzene	0.48J	ug/m3	1.4	0.45	1.44		04/27/20 20:12	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/m3	1.4	0.36	1.44		04/27/20 20:12	108-67-8	
Vinyl acetate	<0.25	ug/m3	1.0	0.25	1.44		04/27/20 20:12	108-05-4	
Vinyl chloride	<0.14	ug/m3	0.37	0.14	1.44		04/27/20 20:12	75-01-4	
m&p-Xylene	<0.49	ug/m3	2.5	0.49	1.44		04/27/20 20:12	179601-23-1	
o-Xylene	<0.21	ug/m3	1.3	0.21	1.44		04/27/20 20:12	95-47-6	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Sample: **SS-4 (1225-1227 12th Ave)** Lab ID: **10515889003** Collected: 04/23/20 10:48 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
Acetone	<2.1	ug/m3	9.7	2.1	1.61		04/27/20 20:40	67-64-1	
Benzene	<0.21	ug/m3	0.52	0.21	1.61		04/27/20 20:40	71-43-2	
Benzyl chloride	<0.76	ug/m3	4.2	0.76	1.61		04/27/20 20:40	100-44-7	
Bromodichloromethane	<0.28	ug/m3	2.2	0.28	1.61		04/27/20 20:40	75-27-4	
Bromoform	<2.9	ug/m3	8.5	2.9	1.61		04/27/20 20:40	75-25-2	
Bromomethane	<0.24	ug/m3	1.3	0.24	1.61		04/27/20 20:40	74-83-9	
1,3-Butadiene	<0.17	ug/m3	0.72	0.17	1.61		04/27/20 20:40	106-99-0	
2-Butanone (MEK)	1.0J	ug/m3	4.8	0.90	1.61		04/27/20 20:40	78-93-3	
Carbon disulfide	<0.17	ug/m3	1.0	0.17	1.61		04/27/20 20:40	75-15-0	
Carbon tetrachloride	<0.41	ug/m3	2.1	0.41	1.61		04/27/20 20:40	56-23-5	
Chlorobenzene	<0.21	ug/m3	1.5	0.21	1.61		04/27/20 20:40	108-90-7	
Chloroethane	<0.20	ug/m3	0.86	0.20	1.61		04/27/20 20:40	75-00-3	
Chloroform	<0.21	ug/m3	0.80	0.21	1.61		04/27/20 20:40	67-66-3	
Chloromethane	<0.11	ug/m3	0.68	0.11	1.61		04/27/20 20:40	74-87-3	
Cyclohexane	<0.24	ug/m3	2.8	0.24	1.61		04/27/20 20:40	110-82-7	
Dibromochloromethane	<0.65	ug/m3	2.8	0.65	1.61		04/27/20 20:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.44	ug/m3	1.3	0.44	1.61		04/27/20 20:40	106-93-4	
1,2-Dichlorobenzene	<0.51	ug/m3	2.0	0.51	1.61		04/27/20 20:40	95-50-1	
1,3-Dichlorobenzene	<0.77	ug/m3	2.0	0.77	1.61		04/27/20 20:40	541-73-1	
1,4-Dichlorobenzene	<1.2	ug/m3	4.9	1.2	1.61		04/27/20 20:40	106-46-7	
Dichlorodifluoromethane	2.7	ug/m3	1.6	0.27	1.61		04/27/20 20:40	75-71-8	
1,1-Dichloroethane	<0.18	ug/m3	1.3	0.18	1.61		04/27/20 20:40	75-34-3	
1,2-Dichloroethane	<0.27	ug/m3	0.66	0.27	1.61		04/27/20 20:40	107-06-2	
1,1-Dichloroethene	<0.19	ug/m3	1.3	0.19	1.61		04/27/20 20:40	75-35-4	
cis-1,2-Dichloroethene	<0.19	ug/m3	1.3	0.19	1.61		04/27/20 20:40	156-59-2	
trans-1,2-Dichloroethene	<0.27	ug/m3	1.3	0.27	1.61		04/27/20 20:40	156-60-5	
1,2-Dichloropropane	<0.32	ug/m3	1.5	0.32	1.61		04/27/20 20:40	78-87-5	
cis-1,3-Dichloropropene	<0.60	ug/m3	1.5	0.60	1.61		04/27/20 20:40	10061-01-5	
trans-1,3-Dichloropropene	<0.42	ug/m3	1.5	0.42	1.61		04/27/20 20:40	10061-02-6	
Dichlorotetrafluoroethane	<0.25	ug/m3	2.3	0.25	1.61		04/27/20 20:40	76-14-2	
Ethanol	88.2	ug/m3	3.1	1.5	1.61		04/27/20 20:40	64-17-5	
Ethyl acetate	1.6	ug/m3	1.2	0.30	1.61		04/27/20 20:40	141-78-6	
Ethylbenzene	1.0J	ug/m3	1.4	0.22	1.61		04/27/20 20:40	100-41-4	
4-Ethyltoluene	<0.69	ug/m3	4.0	0.69	1.61		04/27/20 20:40	622-96-8	
n-Heptane	0.69J	ug/m3	1.3	0.32	1.61		04/27/20 20:40	142-82-5	
Hexachloro-1,3-butadiene	<2.0	ug/m3	8.7	2.0	1.61		04/27/20 20:40	87-68-3	
n-Hexane	0.51J	ug/m3	1.2	0.32	1.61		04/27/20 20:40	110-54-3	
2-Hexanone	<0.56	ug/m3	6.7	0.56	1.61		04/27/20 20:40	591-78-6	
Methylene Chloride	<1.5	ug/m3	5.7	1.5	1.61		04/27/20 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.28	ug/m3	6.7	0.28	1.61		04/27/20 20:40	108-10-1	
Methyl-tert-butyl ether	<0.16	ug/m3	5.9	0.16	1.61		04/27/20 20:40	1634-04-4	
Naphthalene	<2.0	ug/m3	4.3	2.0	1.61		04/27/20 20:40	91-20-3	
2-Propanol	0.95J	ug/m3	4.0	0.61	1.61		04/27/20 20:40	67-63-0	
Propylene	<0.16	ug/m3	0.56	0.16	1.61		04/27/20 20:40	115-07-1	
Styrene	<0.69	ug/m3	1.4	0.69	1.61		04/27/20 20:40	100-42-5	

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

Sample: SS-4 (1225-1227 12th Ave) **Lab ID: 10515889003** Collected: 04/23/20 10:48 Received: 04/24/20 11:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR									
Analytical Method: TO-15									
Pace Analytical Services - Minneapolis									
1,1,2,2-Tetrachloroethane	<0.50	ug/m3	1.1	0.50	1.61		04/27/20 20:40	79-34-5	
Tetrachloroethene	0.76J	ug/m3	1.1	0.43	1.61		04/27/20 20:40	127-18-4	
Tetrahydrofuran	<0.29	ug/m3	0.97	0.29	1.61		04/27/20 20:40	109-99-9	
Toluene	3.5	ug/m3	1.2	0.28	1.61		04/27/20 20:40	108-88-3	
1,2,4-Trichlorobenzene	<5.3	ug/m3	12.1	5.3	1.61		04/27/20 20:40	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/m3	1.8	0.24	1.61		04/27/20 20:40	71-55-6	
1,1,2-Trichloroethane	<0.32	ug/m3	0.89	0.32	1.61		04/27/20 20:40	79-00-5	
Trichloroethene	7.4	ug/m3	0.88	0.36	1.61		04/27/20 20:40	79-01-6	
Trichlorofluoromethane	1.7J	ug/m3	1.8	0.37	1.61		04/27/20 20:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	0.60J	ug/m3	2.5	0.41	1.61		04/27/20 20:40	76-13-1	
1,2,4-Trimethylbenzene	1.5J	ug/m3	1.6	0.50	1.61		04/27/20 20:40	95-63-6	
1,3,5-Trimethylbenzene	0.84J	ug/m3	1.6	0.40	1.61		04/27/20 20:40	108-67-8	
Vinyl acetate	<0.28	ug/m3	1.2	0.28	1.61		04/27/20 20:40	108-05-4	
Vinyl chloride	<0.15	ug/m3	0.42	0.15	1.61		04/27/20 20:40	75-01-4	
m&p-Xylene	4.9	ug/m3	2.8	0.54	1.61		04/27/20 20:40	179601-23-1	
o-Xylene	1.5	ug/m3	1.4	0.24	1.61		04/27/20 20:40	95-47-6	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

QC Batch: 672172 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10515889001, 10515889002, 10515889003

METHOD BLANK: 3600619 Matrix: Air

Associated Lab Samples: 10515889001, 10515889002, 10515889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	1.1	04/27/20 10:54	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	04/27/20 10:54	
1,1,2-Trichloroethane	ug/m3	<0.20	0.56	04/27/20 10:54	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.26	1.6	04/27/20 10:54	
1,1-Dichloroethane	ug/m3	<0.11	0.82	04/27/20 10:54	
1,1-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
1,2,4-Trichlorobenzene	ug/m3	<3.3	7.5	04/27/20 10:54	
1,2,4-Trimethylbenzene	ug/m3	<0.31	1.0	04/27/20 10:54	
1,2-Dibromoethane (EDB)	ug/m3	<0.28	0.78	04/27/20 10:54	
1,2-Dichlorobenzene	ug/m3	<0.32	1.2	04/27/20 10:54	
1,2-Dichloroethane	ug/m3	<0.17	0.41	04/27/20 10:54	
1,2-Dichloropropane	ug/m3	<0.20	0.94	04/27/20 10:54	
1,3,5-Trimethylbenzene	ug/m3	<0.25	1.0	04/27/20 10:54	
1,3-Butadiene	ug/m3	<0.10	0.45	04/27/20 10:54	
1,3-Dichlorobenzene	ug/m3	<0.48	1.2	04/27/20 10:54	
1,4-Dichlorobenzene	ug/m3	<0.74	3.1	04/27/20 10:54	
2-Butanone (MEK)	ug/m3	<0.56	3.0	04/27/20 10:54	
2-Hexanone	ug/m3	<0.34	4.2	04/27/20 10:54	
2-Propanol	ug/m3	<0.38	2.5	04/27/20 10:54	
4-Ethyltoluene	ug/m3	<0.43	2.5	04/27/20 10:54	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.18	4.2	04/27/20 10:54	
Acetone	ug/m3	<1.3	6.0	04/27/20 10:54	
Benzene	ug/m3	<0.13	0.32	04/27/20 10:54	
Benzyl chloride	ug/m3	<0.47	2.6	04/27/20 10:54	
Bromodichloromethane	ug/m3	<0.18	1.4	04/27/20 10:54	
Bromoform	ug/m3	<1.8	5.2	04/27/20 10:54	
Bromomethane	ug/m3	<0.15	0.79	04/27/20 10:54	
Carbon disulfide	ug/m3	<0.11	0.63	04/27/20 10:54	
Carbon tetrachloride	ug/m3	<0.26	1.3	04/27/20 10:54	
Chlorobenzene	ug/m3	<0.13	0.94	04/27/20 10:54	
Chloroethane	ug/m3	<0.13	0.54	04/27/20 10:54	
Chloroform	ug/m3	<0.13	0.50	04/27/20 10:54	
Chloromethane	ug/m3	<0.066	0.42	04/27/20 10:54	
cis-1,2-Dichloroethene	ug/m3	<0.12	0.81	04/27/20 10:54	
cis-1,3-Dichloropropene	ug/m3	<0.37	0.92	04/27/20 10:54	
Cyclohexane	ug/m3	<0.15	1.8	04/27/20 10:54	
Dibromochloromethane	ug/m3	<0.40	1.7	04/27/20 10:54	
Dichlorodifluoromethane	ug/m3	<0.17	1.0	04/27/20 10:54	
Dichlorotetrafluoroethane	ug/m3	<0.16	1.4	04/27/20 10:54	
Ethanol	ug/m3	<0.94	1.9	04/27/20 10:54	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

METHOD BLANK: 3600619 Matrix: Air
Associated Lab Samples: 10515889001, 10515889002, 10515889003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethyl acetate	ug/m3	<0.18	0.73	04/27/20 10:54	
Ethylbenzene	ug/m3	<0.14	0.88	04/27/20 10:54	
Hexachloro-1,3-butadiene	ug/m3	<1.2	5.4	04/27/20 10:54	
m&p-Xylene	ug/m3	<0.34	1.8	04/27/20 10:54	
Methyl-tert-butyl ether	ug/m3	<0.10	3.7	04/27/20 10:54	
Methylene Chloride	ug/m3	<0.93	3.5	04/27/20 10:54	
n-Heptane	ug/m3	<0.20	0.83	04/27/20 10:54	
n-Hexane	ug/m3	<0.20	0.72	04/27/20 10:54	
Naphthalene	ug/m3	<1.3	2.7	04/27/20 10:54	
o-Xylene	ug/m3	<0.15	0.88	04/27/20 10:54	
Propylene	ug/m3	<0.098	0.35	04/27/20 10:54	
Styrene	ug/m3	<0.43	0.87	04/27/20 10:54	
Tetrachloroethene	ug/m3	<0.27	0.69	04/27/20 10:54	
Tetrahydrofuran	ug/m3	<0.18	0.60	04/27/20 10:54	
Toluene	ug/m3	<0.17	0.77	04/27/20 10:54	
trans-1,2-Dichloroethene	ug/m3	<0.17	0.81	04/27/20 10:54	
trans-1,3-Dichloropropene	ug/m3	<0.26	0.92	04/27/20 10:54	
Trichloroethene	ug/m3	<0.22	0.55	04/27/20 10:54	
Trichlorofluoromethane	ug/m3	<0.23	1.1	04/27/20 10:54	
Vinyl acetate	ug/m3	<0.18	0.72	04/27/20 10:54	
Vinyl chloride	ug/m3	<0.096	0.26	04/27/20 10:54	

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	60.9	107	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	84.5	118	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	61.4	107	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	83.3	104	70-130	
1,1-Dichloroethane	ug/m3	42.7	49.3	115	70-130	
1,1-Dichloroethene	ug/m3	41.4	43.9	106	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	147	94	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	59.9	116	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	92.6	115	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	68.9	109	70-136	
1,2-Dichloroethane	ug/m3	42.4	47.1	111	70-130	
1,2-Dichloropropane	ug/m3	48.6	54.5	112	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	67.0	130	70-136	
1,3-Butadiene	ug/m3	23.3	24.9	107	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	73.5	116	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	73.7	116	70-145	
2-Butanone (MEK)	ug/m3	31.4	35.5	113	61-130	
2-Hexanone	ug/m3	42.8	55.5	130	70-138	
2-Propanol	ug/m3	119	140	118	70-136	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

LABORATORY CONTROL SAMPLE: 3600620

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Ethyltoluene	ug/m3	52.4	68.1	130	70-142	
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	55.1	126	70-134	
Acetone	ug/m3	126	156	123	59-137	
Benzene	ug/m3	33.5	34.7	103	70-133	
Benzyl chloride	ug/m3	55.1	57.1	104	70-139	
Bromodichloromethane	ug/m3	71.5	81.3	114	70-130	
Bromoform	ug/m3	110	122	111	60-140	
Bromomethane	ug/m3	41.3	44.5	108	70-131	
Carbon disulfide	ug/m3	33.3	38.0	114	70-130	
Carbon tetrachloride	ug/m3	66.2	77.7	117	70-133	
Chlorobenzene	ug/m3	48.3	52.3	108	70-131	
Chloroethane	ug/m3	28.1	35.2	125	70-141	
Chloroform	ug/m3	51.1	59.5	117	70-130	
Chloromethane	ug/m3	21.9	23.7	108	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	43.8	105	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	59.6	125	70-138	
Cyclohexane	ug/m3	36.7	42.0	114	70-133	
Dibromochloromethane	ug/m3	90.7	103	113	70-139	
Dichlorodifluoromethane	ug/m3	51.6	54.4	105	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	78.3	108	65-133	
Ethanol	ug/m3	103	105	103	65-135	
Ethyl acetate	ug/m3	38.6	41.3	107	70-135	
Ethylbenzene	ug/m3	45.6	56.0	123	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	116	104	70-134	
m&p-Xylene	ug/m3	91.2	113	124	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	41.1	107	70-131	
Methylene Chloride	ug/m3	182	213	117	69-130	
n-Heptane	ug/m3	43.6	44.0	101	70-130	
n-Hexane	ug/m3	37.6	38.5	102	70-131	
Naphthalene	ug/m3	57.7	53.1	92	63-130	
o-Xylene	ug/m3	45.5	54.0	119	70-135	
Propylene	ug/m3	18.2	18.9	104	63-139	
Styrene	ug/m3	44.9	50.9	113	70-143	
Tetrachloroethene	ug/m3	71	71.8	101	70-136	
Tetrahydrofuran	ug/m3	31.5	35.6	113	70-137	
Toluene	ug/m3	39.5	47.2	119	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	43.5	103	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	53.2	112	70-139	
Trichloroethene	ug/m3	56.3	56.7	101	70-132	
Trichlorofluoromethane	ug/m3	59.7	63.6	107	65-136	
Vinyl acetate	ug/m3	34.5	42.5	123	66-140	
Vinyl chloride	ug/m3	26.7	31.9	120	68-141	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	<0.31		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.62	<0.62		25	
1,1,2-Trichloroethane	ug/m3	<0.40	<0.40		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	0.55J	<0.52		25	
1,1-Dichloroethane	ug/m3	<0.23	<0.23		25	
1,1-Dichloroethene	ug/m3	<0.24	<0.24		25	
1,2,4-Trichlorobenzene	ug/m3	<6.7	<6.7		25	
1,2,4-Trimethylbenzene	ug/m3	<0.63	<0.63		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.55	<0.55		25	
1,2-Dichlorobenzene	ug/m3	<0.64	<0.64		25	
1,2-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,2-Dichloropropane	ug/m3	<0.40	<0.40		25	
1,3,5-Trimethylbenzene	ug/m3	<0.50	<0.50		25	
1,3-Butadiene	ug/m3	<0.21	<0.21		25	
1,3-Dichlorobenzene	ug/m3	<0.96	<0.96		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	<1.1	<1.1		25	
2-Hexanone	ug/m3	<0.69	<0.69		25	
2-Propanol	ug/m3	<0.76	<0.76		25	
4-Ethyltoluene	ug/m3	<0.86	<0.86		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	<0.36		25	
Acetone	ug/m3	<2.6	<2.6		25	
Benzene	ug/m3	0.42J	0.38J		25	
Benzyl chloride	ug/m3	<0.95	<0.95		25	
Bromodichloromethane	ug/m3	<0.35	<0.35		25	
Bromoform	ug/m3	<3.6	<3.6		25	
Bromomethane	ug/m3	<0.29	<0.29		25	
Carbon disulfide	ug/m3	<0.22	<0.22		25	
Carbon tetrachloride	ug/m3	<0.51	<0.51		25	
Chlorobenzene	ug/m3	<0.27	<0.27		25	
Chloroethane	ug/m3	<0.25	<0.25		25	
Chloroform	ug/m3	<0.27	<0.27		25	
Chloromethane	ug/m3	0.98	1.1	11	25	
cis-1,2-Dichloroethene	ug/m3	<0.23	<0.23		25	
cis-1,3-Dichloropropene	ug/m3	<0.75	<0.75		25	
Cyclohexane	ug/m3	0.76J	0.72J		25	
Dibromochloromethane	ug/m3	<0.81	<0.81		25	
Dichlorodifluoromethane	ug/m3	2.7	2.6	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.32	<0.32		25	
Ethanol	ug/m3	18.6	21.1	13	25	
Ethyl acetate	ug/m3	<0.37	<0.37		25	
Ethylbenzene	ug/m3	<0.28	<0.28		25	
Hexachloro-1,3-butadiene	ug/m3	<2.5	<2.5		25	
m&p-Xylene	ug/m3	<0.68	<0.68		25	
Methyl-tert-butyl ether	ug/m3	<0.20	<0.20		25	
Methylene Chloride	ug/m3	<1.9	<1.9		25	
n-Heptane	ug/m3	<0.40	<0.40		25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

SAMPLE DUPLICATE: 3601165

Parameter	Units	10515889001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.55J	<0.40		25	
Naphthalene	ug/m3	<2.6	<2.6		25	
o-Xylene	ug/m3	<0.30	<0.30		25	
Propylene	ug/m3	0.92	<0.20		25	
Styrene	ug/m3	<0.86	<0.86		25	
Tetrachloroethene	ug/m3	<0.54	<0.54		25	
Tetrahydrofuran	ug/m3	<0.37	<0.37		25	
Toluene	ug/m3	0.44J	0.42J		25	
trans-1,2-Dichloroethene	ug/m3	<0.34	<0.34		25	
trans-1,3-Dichloropropene	ug/m3	<0.53	<0.53		25	
Trichloroethene	ug/m3	<0.44	<0.44		25	
Trichlorofluoromethane	ug/m3	1.2J	1.5J		25	
Vinyl acetate	ug/m3	<0.36	<0.36		25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

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QUALIFIERS

Project: 60602996 Grafton VI Former Cou

Pace Project No.: 10515889

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI Former Cou
Pace Project No.: 10515889

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10515889001	OA-2 (1225-1227 12th Ave)	TO-15	672172		
10515889002	IA-2 (1225-1227 12th Ave)	TO-15	672172		
10515889003	SS-4 (1225-1227 12th Ave)	TO-15	672172		

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WO#: 10515889



AIR: CHAIN-OF-CUSTODY

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

10515889



Section A

Required Client Information:

Company: AECOM
 Address: 1555 N RiverCenter Dr
Suite 214 Milwaukee WI 53212
 Email To: Tory.Schvitz@aecom.com
 Phone: 414 944 6168 Fax: _____
 Requested Due Date/TAT: STD

Section B

Required Project Information:

Report To: Lanette Altenbach
 Copy To: lanette.altenbach@aecom.com
 Purchase Order No.: n/a
 Project Name: Graton VI Former Quarry
 Project Number: 60602996

Section C

Invoice Information:

Attention: USAPIRAGIN6@aecom.com
 Company Name: Same
 Address: Same
 Pace Quote Reference: _____
 Pace Project Manager/Sales Rep: Carolynne Drake
 Pace Profile #: 40398

48133

Page: 1 of 1

Program
 UST Superfund Emissions Clean Air Act
 Voluntary Clean Up Dry Clean RCRA Other _____
 Location of Sampling by State: WI
 Reporting Units
 ug/m³ _____ mg/m³ _____
 PPBV _____ PPMV _____
 Other _____
 Report Level: II. _____ III. _____ IV. _____ Other _____

ITEM #	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	MEDIA CODE	PID Reading (Client only)	COLLECTED				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)	Face Lab ID
					COMPOSITE START		COMPOSITE - END/GRAB				1	2	3	4	1	2	3	4		
					DATE	TIME	DATE	TIME												
1	OA-2 (1225-1227 12th Ave)	6LL 0.0		04.22.20	1903	04.23.20	1012	30	11	1	2	3	4	1	4	5	8	X	CU1	
2	IA-2 (1225-1227 12th Ave)	6LL 0.1		04.22.20	1005	04.23.20	1007	28	3	1	9	5	4	1	3	7	7	X	CU2	
3	SS-5 (1225-1227 12th Ave)	6LL 0.1		04.23.20	1017	04.23.20	1015	29	10	3	4	0	0	2	8	1	4	X	NEW 04.23.20	
4	SS-4 (1225-1227 12th Ave)	6LL 0.1		04.23.20	1014	04.23.20	1018	30	6	1	6	8	8	0	6	3	9	X	CU3	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	ACCOM	04.23.20	1500	Carolynne Drake	4/24/20	1150	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Keith Nielsen
 SIGNATURE OF SAMPLER: _____ DATE Signed (MM/DD/YY) 04.23.20
 Temp in °C
 Received on Ice _____ Custody Sealed Cooler _____ Samples Intact _____

ORIGINAL



Document Name: Air Sample Condition Upon Receipt

Document Revised: 19Nov2019 Page 1 of 1

Document No.: F-MN-A-106-rev.20

Pace Analytical Services - Minneapolis

Air Sample Condition Upon Receipt

Client Name: Aecom

Project #:

WO#: **10515889**

PM: CT1

Due Date: 05/01/20

CLIENT: RECOM-WI

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

Tracking Number: 1723 2541 9893

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

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

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

Thermometer Used: G87A9170600254 G87A9155100842

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

Date & Initials of Person Examining Contents: RLG 4/24/20

Type of ice Received Blue Wet None

Comments:

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? (Tedlar bags not acceptable container for TO-14, TO-15 or APH) -Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? (visual inspection/no leaks when pressurized)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Media: <u>Air Can</u> Airbag Filter TDT Passive		11. Individually Certified Cans Y <u>N</u> (list which samples)
Is sufficient information available to reconcile samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Do cans need to be pressurized? (DO NOT PRESSURIZE 3C or ASTM 1946!!!)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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
<u>OA-2</u>	<u>1234</u>	<u>1458</u>	<u>-10</u>	<u>+5</u>					
<u>IA-2</u>	<u>954</u>	<u>1377</u>	<u>-2</u>	<u>"</u>					
<u>SS-4</u>	<u>688</u>	<u>639</u>	<u>-5</u>	<u>"</u>					

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____

Date: _____

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