

**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



April 2, 2020

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

SUBJECT: Results of 2<sup>nd</sup> Vapor Intrusion Sampling at 1225-1227 12<sup>th</sup> Ave.  
Related to former Quality Cleaners, 1226 11<sup>th</sup> 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 is 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.

On February 6, 2020 the environmental contractor, AECOM, hired by the DNR, collected a 2<sup>nd</sup> sub-slab vapor sample, an indoor air sample, and an outdoor air sample from the 1225-1227 12<sup>th</sup> 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. Additional sampling needs to be conducted in order to confirm these results. AECOM will contact you to schedule another sampling visit

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.

April 2, 2020

Please call me, the DNR project manager, at your earliest convenience, at 920-893-8523, or via email at [johnm.feeney@wisconsin.gov](mailto: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](mailto: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  
SER File

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

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

**From:** Schultz, Tory <Tory.Schultz@aecom.com>  
**Sent:** Thursday, February 20, 2020 4:44 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 (partial) Sample Event Results (warming season)  
**Attachments:** Lab.Report\_FED2019\_1225\_1227\_12thAve.pdf; Lab.Report\_FED2019\_1233\_12thAve.pdf; Lab.Report\_FED2019\_1102BridgeSt.pdf; Figure 1 Sample Locations\_event3.pdf

Good afternoon John,

Here are the results of AECOM’s VI testing in Grafton during February 2020. We received the last of the sample results late yesterday.

On February 5<sup>th</sup>-6<sup>th</sup>, 2020, AECOM conducted work associated with the Former Quality Cleaners Off-site Vapor Intrusion Assessment. Five sub-slab vapor pins at off-site locations were sampled (SS-1, SS-2, SS-3, SS-4, and SS-5). One indoor air and one outdoor ambient air sample were collected from 1233 12<sup>th</sup> Avenue, and one indoor air and one outdoor ambient air sample were collected from 1225-1227 12<sup>th</sup> Avenue. 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 warming season and previous events are summarized below. Laboratory reports are attached for inclusion into residential notification letters. 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.

**Sample Methodology**

Vapor pins were installed during the initial site visit on July 23, 2019 and November 19, 2019 for SS-5. Indoor and outdoor ambient air samples were initiated on February 5<sup>th</sup>, 2020. On February 6<sup>th</sup>, 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/m<sup>3</sup>)**

Assessment Property	Sample ID	July 2019 (Cooling)	November 2019 (Warming)	February 2020 (Warming)
1102 Bridge Street	SS-1	3.9	1.7	1.0 J
	SS-5	Vapor Pin installed at later date	2.8	3.9
1233 12 <sup>th</sup> Avenue	SS-2	1,390	85.4	35.9
	SS-3	169	491	335
	OA-1 (AA-1)	ND	ND	ND
	IA-1 (AI-1)	1.1	2.5	2.5
1225-1227 12 <sup>th</sup> Avenue	SS-4	2.8	Access Denied During this event	0.79 J
	OA-2 (AA-2)	ND		ND
	IA-2 (AI-2)	ND		2.3

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/m<sup>3</sup>

ND = Non Detect

J = Estimated concentration at or above the Limit of Detection but below the Limit of Quantitation

**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).

**Fourth Sampling Event Schedule**

The work plan for this project included three sampling events. Because of the denial of access at 1225-1227 12<sup>th</sup> Avenue during the November 2019 sampling event and the late vapor pin installation date at SS-5 (1102 Bridge Street), these locations have been sampled twice. A fourth sample event is recommended to allow the third (final) sampling of SS-5 as well as sub-slab, indoor ambient, and outdoor ambient air samples at 1225-1227 12<sup>th</sup> Avenue. Because SS-5 has been sampled during the warming season (Nov. 2019 and Feb. 2020), it is proposed a fourth sampling event be conducted during the cooling season in late-spring or summer of 2020. The total cost for the proposed fourth sampling event is estimated to be \$3,500. Remaining budget under the current contract is \$6,800.

Please let us know if you have comments or questions.

Thank you,

**Tory Schultz**

Senior Project Manager, Environment, Central Region

D +1-414-944-6168

M +1-414-690-8405

[tory.schultz@aecom.com](mailto:tory.schultz@aecom.com)

**AECOM**

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February 19, 2020

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

RE: Project: 60602996 Grafton VI  
Pace Project No.: 10507770

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

*Carolynne Trout*

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

Pace Project No.: 10507770

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### **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  
Pace Project No.: 10507770

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
10507770001	IA-2	Air	02/06/20 11:10	02/07/20 11:46
10507770002	OA-2	Air	02/06/20 11:09	02/07/20 09:45
10507770003	SS-4	Air	02/06/20 11:46	02/07/20 09:45

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### SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI

Pace Project No.: 10507770

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10507770001	IA-2	TO-15	CH1	61	PASI-M
10507770002	OA-2	TO-15	CH1	61	PASI-M
10507770003	SS-4	TO-15	MLS	61	PASI-M

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 60602996 Grafton VI

Pace Project No.: 10507770

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>10507770001</b>	<b>IA-2</b>					
TO-15	Acetone	31.1	ug/m3	9.4	02/10/20 16:46	
TO-15	Benzene	0.59	ug/m3	0.50	02/10/20 16:46	
TO-15	Chloroform	0.34J	ug/m3	0.77	02/10/20 16:46	
TO-15	Chloromethane	1.1	ug/m3	0.65	02/10/20 16:46	
TO-15	Dichlorodifluoromethane	2.2	ug/m3	1.6	02/10/20 16:46	
TO-15	1,2-Dichloroethane	0.44J	ug/m3	0.64	02/10/20 16:46	
TO-15	Ethanol	253	ug/m3	7.4	02/10/20 16:46	
TO-15	n-Heptane	1.1J	ug/m3	1.3	02/10/20 16:46	
TO-15	n-Hexane	0.49J	ug/m3	1.1	02/10/20 16:46	
TO-15	Methylene Chloride	2.6J	ug/m3	5.5	02/10/20 16:46	
TO-15	2-Propanol	19.3	ug/m3	9.7	02/10/20 16:46	
TO-15	Tetrachloroethene	2.3	ug/m3	1.1	02/10/20 16:46	
TO-15	Toluene	2.2	ug/m3	1.2	02/10/20 16:46	
TO-15	Trichlorofluoromethane	1.1J	ug/m3	1.8	02/10/20 16:46	
<b>10507770002</b>	<b>OA-2</b>					
TO-15	Benzene	0.48	ug/m3	0.47	02/10/20 15:50	
TO-15	Chloromethane	0.89	ug/m3	0.60	02/10/20 15:50	
TO-15	Dichlorodifluoromethane	2.1	ug/m3	1.5	02/10/20 15:50	
TO-15	Ethanol	8.1	ug/m3	6.9	02/10/20 15:50	
TO-15	Methylene Chloride	2.1J	ug/m3	5.1	02/10/20 15:50	
TO-15	Toluene	0.57J	ug/m3	1.1	02/10/20 15:50	
TO-15	Trichlorofluoromethane	1.1J	ug/m3	1.6	02/10/20 15:50	
<b>10507770003</b>	<b>SS-4</b>					
TO-15	Acetone	8.0	ug/m3	3.7	02/18/20 14:01	
TO-15	Benzene	0.76	ug/m3	0.50	02/18/20 14:01	
TO-15	2-Butanone (MEK)	3.5J	ug/m3	4.6	02/18/20 14:01	
TO-15	Chloromethane	0.48J	ug/m3	0.65	02/18/20 14:01	
TO-15	Dichlorodifluoromethane	2.5	ug/m3	1.6	02/18/20 14:01	
TO-15	Ethanol	33.2	ug/m3	7.4	02/18/20 14:01	SS
TO-15	Ethyl acetate	1.5	ug/m3	1.1	02/18/20 14:01	
TO-15	Ethylbenzene	0.99J	ug/m3	1.4	02/18/20 14:01	
TO-15	n-Hexane	1.5	ug/m3	1.1	02/18/20 14:01	
TO-15	Methylene Chloride	20.2	ug/m3	5.5	02/18/20 14:01	
TO-15	Naphthalene	4.6	ug/m3	4.1	02/18/20 14:01	
TO-15	2-Propanol	3.6J	ug/m3	3.9	02/18/20 14:01	
TO-15	Propylene	0.28J	ug/m3	0.54	02/18/20 14:01	
TO-15	Tetrachloroethene	0.79J	ug/m3	1.1	02/18/20 14:01	
TO-15	Toluene	2.9	ug/m3	1.2	02/18/20 14:01	
TO-15	Trichloroethene	6.6	ug/m3	0.85	02/18/20 14:01	
TO-15	Trichlorofluoromethane	1.3J	ug/m3	1.8	02/18/20 14:01	
TO-15	1,2,4-Trimethylbenzene	1.4J	ug/m3	1.5	02/18/20 14:01	
TO-15	1,3,5-Trimethylbenzene	0.81J	ug/m3	1.5	02/18/20 14:01	
TO-15	m&p-Xylene	3.8	ug/m3	2.7	02/18/20 14:01	
TO-15	o-Xylene	0.86J	ug/m3	1.4	02/18/20 14:01	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

Sample: IA-2 Lab ID: 10507770001 Collected: 02/06/20 11:10 Received: 02/07/20 11:46 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>									
Analytical Method: TO-15									
Acetone	31.1	ug/m3	9.4	1.9	1.55		02/10/20 16:46	67-64-1	
Benzene	0.59	ug/m3	0.50	0.24	1.55		02/10/20 16:46	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		02/10/20 16:46	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		02/10/20 16:46	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		02/10/20 16:46	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		02/10/20 16:46	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		02/10/20 16:46	106-99-0	
2-Butanone (MEK)	<0.57	ug/m3	4.6	0.57	1.55		02/10/20 16:46	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		02/10/20 16:46	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		02/10/20 16:46	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		02/10/20 16:46	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		02/10/20 16:46	75-00-3	
Chloroform	0.34J	ug/m3	0.77	0.30	1.55		02/10/20 16:46	67-66-3	
Chloromethane	1.1	ug/m3	0.65	0.24	1.55		02/10/20 16:46	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		02/10/20 16:46	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		02/10/20 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		02/10/20 16:46	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		02/10/20 16:46	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		02/10/20 16:46	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		02/10/20 16:46	106-46-7	
Dichlorodifluoromethane	2.2	ug/m3	1.6	0.45	1.55		02/10/20 16:46	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		02/10/20 16:46	75-34-3	
1,2-Dichloroethane	0.44J	ug/m3	0.64	0.23	1.55		02/10/20 16:46	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	3.1	0.42	1.55		02/10/20 16:46	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		02/10/20 16:46	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		02/10/20 16:46	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		02/10/20 16:46	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		02/10/20 16:46	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		02/10/20 16:46	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		02/10/20 16:46	76-14-2	
Ethanol	253	ug/m3	7.4	1.3	1.55		02/10/20 16:46	64-17-5	
Ethyl acetate	<0.29	ug/m3	1.1	0.29	1.55		02/10/20 16:46	141-78-6	
Ethylbenzene	<0.47	ug/m3	1.4	0.47	1.55		02/10/20 16:46	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		02/10/20 16:46	622-96-8	
n-Heptane	1.1J	ug/m3	1.3	0.59	1.55		02/10/20 16:46	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		02/10/20 16:46	87-68-3	
n-Hexane	0.49J	ug/m3	1.1	0.48	1.55		02/10/20 16:46	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		02/10/20 16:46	591-78-6	
Methylene Chloride	2.6J	ug/m3	5.5	1.9	1.55		02/10/20 16:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		02/10/20 16:46	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		02/10/20 16:46	1634-04-4	
Naphthalene	<2.0	ug/m3	4.1	2.0	1.55		02/10/20 16:46	91-20-3	
2-Propanol	19.3	ug/m3	9.7	1.1	1.55		02/10/20 16:46	67-63-0	
Propylene	<0.22	ug/m3	0.54	0.22	1.55		02/10/20 16:46	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		02/10/20 16:46	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		02/10/20 16:46	79-34-5	

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## ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

**Sample: IA-2**      **Lab ID: 10507770001**      Collected: 02/06/20 11:10      Received: 02/07/20 11:46      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Tetrachloroethene	2.3	ug/m3	1.1	0.49	1.55		02/10/20 16:46	127-18-4	
Tetrahydrofuran	<0.40	ug/m3	0.93	0.40	1.55		02/10/20 16:46	109-99-9	
Toluene	2.2	ug/m3	1.2	0.54	1.55		02/10/20 16:46	108-88-3	
1,2,4-Trichlorobenzene	<5.8	ug/m3	11.7	5.8	1.55		02/10/20 16:46	120-82-1	
1,1,1-Trichloroethane	<0.48	ug/m3	1.7	0.48	1.55		02/10/20 16:46	71-55-6	
1,1,2-Trichloroethane	<0.38	ug/m3	0.86	0.38	1.55		02/10/20 16:46	79-00-5	
Trichloroethene	<0.39	ug/m3	0.85	0.39	1.55		02/10/20 16:46	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.8	0.57	1.55		02/10/20 16:46	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.87	ug/m3	2.4	0.87	1.55		02/10/20 16:46	76-13-1	
1,2,4-Trimethylbenzene	<0.70	ug/m3	1.5	0.70	1.55		02/10/20 16:46	95-63-6	
1,3,5-Trimethylbenzene	<0.62	ug/m3	1.5	0.62	1.55		02/10/20 16:46	108-67-8	
Vinyl acetate	<0.42	ug/m3	1.1	0.42	1.55		02/10/20 16:46	108-05-4	
Vinyl chloride	<0.20	ug/m3	0.40	0.20	1.55		02/10/20 16:46	75-01-4	
m&p-Xylene	<1.1	ug/m3	2.7	1.1	1.55		02/10/20 16:46	179601-23-1	
o-Xylene	<0.53	ug/m3	1.4	0.53	1.55		02/10/20 16:46	95-47-6	

**Sample: OA-2**      **Lab ID: 10507770002**      Collected: 02/06/20 11:09      Received: 02/07/20 09:45      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	<1.7	ug/m3	8.7	1.7	1.44		02/10/20 15:50	67-64-1	
Benzene	0.48	ug/m3	0.47	0.22	1.44		02/10/20 15:50	71-43-2	
Benzyl chloride	<1.7	ug/m3	3.8	1.7	1.44		02/10/20 15:50	100-44-7	
Bromodichloromethane	<0.53	ug/m3	2.0	0.53	1.44		02/10/20 15:50	75-27-4	
Bromoform	<2.0	ug/m3	7.6	2.0	1.44		02/10/20 15:50	75-25-2	
Bromomethane	<0.33	ug/m3	1.1	0.33	1.44		02/10/20 15:50	74-83-9	
1,3-Butadiene	<0.18	ug/m3	0.65	0.18	1.44		02/10/20 15:50	106-99-0	
2-Butanone (MEK)	<0.53	ug/m3	4.3	0.53	1.44		02/10/20 15:50	78-93-3	
Carbon disulfide	<0.32	ug/m3	0.91	0.32	1.44		02/10/20 15:50	75-15-0	
Carbon tetrachloride	<0.62	ug/m3	1.8	0.62	1.44		02/10/20 15:50	56-23-5	
Chlorobenzene	<0.40	ug/m3	1.3	0.40	1.44		02/10/20 15:50	108-90-7	
Chloroethane	<0.37	ug/m3	0.77	0.37	1.44		02/10/20 15:50	75-00-3	
Chloroform	<0.28	ug/m3	0.71	0.28	1.44		02/10/20 15:50	67-66-3	
Chloromethane	0.89	ug/m3	0.60	0.22	1.44		02/10/20 15:50	74-87-3	
Cyclohexane	<0.51	ug/m3	2.5	0.51	1.44		02/10/20 15:50	110-82-7	
Dibromochloromethane	<1.0	ug/m3	2.5	1.0	1.44		02/10/20 15:50	124-48-1	
1,2-Dibromoethane (EDB)	<0.53	ug/m3	1.1	0.53	1.44		02/10/20 15:50	106-93-4	
1,2-Dichlorobenzene	<0.72	ug/m3	1.8	0.72	1.44		02/10/20 15:50	95-50-1	
1,3-Dichlorobenzene	<0.84	ug/m3	1.8	0.84	1.44		02/10/20 15:50	541-73-1	
1,4-Dichlorobenzene	<1.4	ug/m3	4.4	1.4	1.44		02/10/20 15:50	106-46-7	
Dichlorodifluoromethane	2.1	ug/m3	1.5	0.42	1.44		02/10/20 15:50	75-71-8	
1,1-Dichloroethane	<0.32	ug/m3	1.2	0.32	1.44		02/10/20 15:50	75-34-3	
1,2-Dichloroethane	<0.22	ug/m3	0.59	0.22	1.44		02/10/20 15:50	107-06-2	

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## ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

Sample: OA-2 Lab ID: 10507770002 Collected: 02/06/20 11:09 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,1-Dichloroethene	<0.39	ug/m3	2.9	0.39	1.44		02/10/20 15:50	75-35-4	
cis-1,2-Dichloroethene	<0.32	ug/m3	1.2	0.32	1.44		02/10/20 15:50	156-59-2	
trans-1,2-Dichloroethene	<0.41	ug/m3	1.2	0.41	1.44		02/10/20 15:50	156-60-5	
1,2-Dichloropropane	<0.33	ug/m3	1.4	0.33	1.44		02/10/20 15:50	78-87-5	
cis-1,3-Dichloropropene	<0.44	ug/m3	1.3	0.44	1.44		02/10/20 15:50	10061-01-5	
trans-1,3-Dichloropropene	<0.63	ug/m3	1.3	0.63	1.44		02/10/20 15:50	10061-02-6	
Dichlorotetrafluoroethane	<0.63	ug/m3	2.0	0.63	1.44		02/10/20 15:50	76-14-2	
Ethanol	8.1	ug/m3	6.9	1.2	1.44		02/10/20 15:50	64-17-5	
Ethyl acetate	<0.27	ug/m3	1.1	0.27	1.44		02/10/20 15:50	141-78-6	
Ethylbenzene	<0.44	ug/m3	1.3	0.44	1.44		02/10/20 15:50	100-41-4	
4-Ethyltoluene	<0.82	ug/m3	3.6	0.82	1.44		02/10/20 15:50	622-96-8	
n-Heptane	<0.55	ug/m3	1.2	0.55	1.44		02/10/20 15:50	142-82-5	
Hexachloro-1,3-butadiene	<2.8	ug/m3	7.8	2.8	1.44		02/10/20 15:50	87-68-3	
n-Hexane	<0.45	ug/m3	1.0	0.45	1.44		02/10/20 15:50	110-54-3	
2-Hexanone	<1.1	ug/m3	6.0	1.1	1.44		02/10/20 15:50	591-78-6	
Methylene Chloride	2.1J	ug/m3	5.1	1.7	1.44		02/10/20 15:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.75	ug/m3	6.0	0.75	1.44		02/10/20 15:50	108-10-1	
Methyl-tert-butyl ether	<0.95	ug/m3	5.3	0.95	1.44		02/10/20 15:50	1634-04-4	
Naphthalene	<1.9	ug/m3	3.8	1.9	1.44		02/10/20 15:50	91-20-3	
2-Propanol	<1.0	ug/m3	9.0	1.0	1.44		02/10/20 15:50	67-63-0	
Propylene	<0.20	ug/m3	0.50	0.20	1.44		02/10/20 15:50	115-07-1	
Styrene	<0.50	ug/m3	1.2	0.50	1.44		02/10/20 15:50	100-42-5	
1,1,2,2-Tetrachloroethane	<0.44	ug/m3	1.0	0.44	1.44		02/10/20 15:50	79-34-5	
Tetrachloroethene	<0.45	ug/m3	0.99	0.45	1.44		02/10/20 15:50	127-18-4	
Tetrahydrofuran	<0.38	ug/m3	0.86	0.38	1.44		02/10/20 15:50	109-99-9	
Toluene	0.57J	ug/m3	1.1	0.51	1.44		02/10/20 15:50	108-88-3	
1,2,4-Trichlorobenzene	<5.4	ug/m3	10.9	5.4	1.44		02/10/20 15:50	120-82-1	
1,1,1-Trichloroethane	<0.44	ug/m3	1.6	0.44	1.44		02/10/20 15:50	71-55-6	
1,1,2-Trichloroethane	<0.35	ug/m3	0.80	0.35	1.44		02/10/20 15:50	79-00-5	
Trichloroethene	<0.36	ug/m3	0.79	0.36	1.44		02/10/20 15:50	79-01-6	
Trichlorofluoromethane	1.1J	ug/m3	1.6	0.53	1.44		02/10/20 15:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.81	ug/m3	2.2	0.81	1.44		02/10/20 15:50	76-13-1	
1,2,4-Trimethylbenzene	<0.65	ug/m3	1.4	0.65	1.44		02/10/20 15:50	95-63-6	
1,3,5-Trimethylbenzene	<0.57	ug/m3	1.4	0.57	1.44		02/10/20 15:50	108-67-8	
Vinyl acetate	<0.39	ug/m3	1.0	0.39	1.44		02/10/20 15:50	108-05-4	
Vinyl chloride	<0.18	ug/m3	0.37	0.18	1.44		02/10/20 15:50	75-01-4	
m&p-Xylene	<1.0	ug/m3	2.5	1.0	1.44		02/10/20 15:50	179601-23-1	
o-Xylene	<0.50	ug/m3	1.3	0.50	1.44		02/10/20 15:50	95-47-6	

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### ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

Sample: **SS-4** Lab ID: **10507770003** Collected: 02/06/20 11:46 Received: 02/07/20 09:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	8.0	ug/m3	3.7	1.9	1.55		02/18/20 14:01	67-64-1	
Benzene	0.76	ug/m3	0.50	0.24	1.55		02/18/20 14:01	71-43-2	
Benzyl chloride	<1.9	ug/m3	4.1	1.9	1.55		02/18/20 14:01	100-44-7	
Bromodichloromethane	<0.57	ug/m3	2.1	0.57	1.55		02/18/20 14:01	75-27-4	
Bromoform	<2.2	ug/m3	8.1	2.2	1.55		02/18/20 14:01	75-25-2	
Bromomethane	<0.35	ug/m3	1.2	0.35	1.55		02/18/20 14:01	74-83-9	
1,3-Butadiene	<0.20	ug/m3	0.70	0.20	1.55		02/18/20 14:01	106-99-0	
2-Butanone (MEK)	3.5J	ug/m3	4.6	0.57	1.55		02/18/20 14:01	78-93-3	
Carbon disulfide	<0.34	ug/m3	0.98	0.34	1.55		02/18/20 14:01	75-15-0	
Carbon tetrachloride	<0.66	ug/m3	2.0	0.66	1.55		02/18/20 14:01	56-23-5	
Chlorobenzene	<0.43	ug/m3	1.5	0.43	1.55		02/18/20 14:01	108-90-7	
Chloroethane	<0.40	ug/m3	0.83	0.40	1.55		02/18/20 14:01	75-00-3	
Chloroform	<0.30	ug/m3	0.77	0.30	1.55		02/18/20 14:01	67-66-3	
Chloromethane	0.48J	ug/m3	0.65	0.24	1.55		02/18/20 14:01	74-87-3	
Cyclohexane	<0.55	ug/m3	2.7	0.55	1.55		02/18/20 14:01	110-82-7	
Dibromochloromethane	<1.1	ug/m3	2.7	1.1	1.55		02/18/20 14:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.57	ug/m3	1.2	0.57	1.55		02/18/20 14:01	106-93-4	
1,2-Dichlorobenzene	<0.77	ug/m3	1.9	0.77	1.55		02/18/20 14:01	95-50-1	
1,3-Dichlorobenzene	<0.90	ug/m3	1.9	0.90	1.55		02/18/20 14:01	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/m3	4.7	1.6	1.55		02/18/20 14:01	106-46-7	
Dichlorodifluoromethane	2.5	ug/m3	1.6	0.45	1.55		02/18/20 14:01	75-71-8	
1,1-Dichloroethane	<0.35	ug/m3	1.3	0.35	1.55		02/18/20 14:01	75-34-3	
1,2-Dichloroethane	<0.23	ug/m3	0.64	0.23	1.55		02/18/20 14:01	107-06-2	
1,1-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.55		02/18/20 14:01	75-35-4	
cis-1,2-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.55		02/18/20 14:01	156-59-2	
trans-1,2-Dichloroethene	<0.44	ug/m3	1.2	0.44	1.55		02/18/20 14:01	156-60-5	
1,2-Dichloropropane	<0.36	ug/m3	1.5	0.36	1.55		02/18/20 14:01	78-87-5	
cis-1,3-Dichloropropene	<0.47	ug/m3	1.4	0.47	1.55		02/18/20 14:01	10061-01-5	
trans-1,3-Dichloropropene	<0.68	ug/m3	1.4	0.68	1.55		02/18/20 14:01	10061-02-6	
Dichlorotetrafluoroethane	<0.68	ug/m3	2.2	0.68	1.55		02/18/20 14:01	76-14-2	
Ethanol	33.2	ug/m3	7.4	1.3	1.55		02/18/20 14:01	64-17-5	SS
Ethyl acetate	1.5	ug/m3	1.1	0.29	1.55		02/18/20 14:01	141-78-6	
Ethylbenzene	0.99J	ug/m3	1.4	0.47	1.55		02/18/20 14:01	100-41-4	
4-Ethyltoluene	<0.88	ug/m3	3.9	0.88	1.55		02/18/20 14:01	622-96-8	
n-Heptane	<0.59	ug/m3	1.3	0.59	1.55		02/18/20 14:01	142-82-5	
Hexachloro-1,3-butadiene	<3.1	ug/m3	8.4	3.1	1.55		02/18/20 14:01	87-68-3	
n-Hexane	1.5	ug/m3	1.1	0.48	1.55		02/18/20 14:01	110-54-3	
2-Hexanone	<1.2	ug/m3	6.4	1.2	1.55		02/18/20 14:01	591-78-6	
Methylene Chloride	20.2	ug/m3	5.5	1.9	1.55		02/18/20 14:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<0.80	ug/m3	6.4	0.80	1.55		02/18/20 14:01	108-10-1	
Methyl-tert-butyl ether	<1.0	ug/m3	5.7	1.0	1.55		02/18/20 14:01	1634-04-4	
Naphthalene	4.6	ug/m3	4.1	2.0	1.55		02/18/20 14:01	91-20-3	
2-Propanol	3.6J	ug/m3	3.9	1.1	1.55		02/18/20 14:01	67-63-0	
Propylene	0.28J	ug/m3	0.54	0.22	1.55		02/18/20 14:01	115-07-1	
Styrene	<0.53	ug/m3	1.3	0.53	1.55		02/18/20 14:01	100-42-5	
1,1,2,2-Tetrachloroethane	<0.48	ug/m3	1.1	0.48	1.55		02/18/20 14:01	79-34-5	

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## ANALYTICAL RESULTS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

**Sample: SS-4**      **Lab ID: 10507770003**      Collected: 02/06/20 11:46      Received: 02/07/20 09:45      Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Tetrachloroethene	<b>0.79J</b>	ug/m3	1.1	0.49	1.55		02/18/20 14:01	127-18-4	
Tetrahydrofuran	<b>&lt;0.40</b>	ug/m3	0.93	0.40	1.55		02/18/20 14:01	109-99-9	
Toluene	<b>2.9</b>	ug/m3	1.2	0.54	1.55		02/18/20 14:01	108-88-3	
1,2,4-Trichlorobenzene	<b>&lt;5.8</b>	ug/m3	11.7	5.8	1.55		02/18/20 14:01	120-82-1	
1,1,1-Trichloroethane	<b>&lt;0.48</b>	ug/m3	1.7	0.48	1.55		02/18/20 14:01	71-55-6	
1,1,2-Trichloroethane	<b>&lt;0.38</b>	ug/m3	0.86	0.38	1.55		02/18/20 14:01	79-00-5	
Trichloroethene	<b>6.6</b>	ug/m3	0.85	0.39	1.55		02/18/20 14:01	79-01-6	
Trichlorofluoromethane	<b>1.3J</b>	ug/m3	1.8	0.57	1.55		02/18/20 14:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	<b>&lt;0.87</b>	ug/m3	2.4	0.87	1.55		02/18/20 14:01	76-13-1	
1,2,4-Trimethylbenzene	<b>1.4J</b>	ug/m3	1.5	0.70	1.55		02/18/20 14:01	95-63-6	
1,3,5-Trimethylbenzene	<b>0.81J</b>	ug/m3	1.5	0.62	1.55		02/18/20 14:01	108-67-8	
Vinyl acetate	<b>&lt;0.42</b>	ug/m3	1.1	0.42	1.55		02/18/20 14:01	108-05-4	
Vinyl chloride	<b>&lt;0.20</b>	ug/m3	0.40	0.20	1.55		02/18/20 14:01	75-01-4	
m&p-Xylene	<b>3.8</b>	ug/m3	2.7	1.1	1.55		02/18/20 14:01	179601-23-1	
o-Xylene	<b>0.86J</b>	ug/m3	1.4	0.53	1.55		02/18/20 14:01	95-47-6	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

QC Batch: 659222 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10507770001, 10507770002

METHOD BLANK: 3538004 Matrix: Air  
Associated Lab Samples: 10507770001, 10507770002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/10/20 11:06	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/10/20 11:06	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/10/20 11:06	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/10/20 11:06	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/10/20 11:06	MN
1,1-Dichloroethene	ug/m3	<0.27	2.0	02/10/20 11:06	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/10/20 11:06	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/10/20 11:06	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/10/20 11:06	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/10/20 11:06	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/10/20 11:06	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/10/20 11:06	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/10/20 11:06	
1,3-Butadiene	ug/m3	<0.13	0.45	02/10/20 11:06	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/10/20 11:06	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/10/20 11:06	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/10/20 11:06	
2-Hexanone	ug/m3	<0.74	4.2	02/10/20 11:06	
2-Propanol	ug/m3	<0.70	6.2	02/10/20 11:06	MN
4-Ethyltoluene	ug/m3	<0.57	2.5	02/10/20 11:06	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/10/20 11:06	
Acetone	ug/m3	<1.2	6.0	02/10/20 11:06	MN
Benzene	ug/m3	<0.15	0.32	02/10/20 11:06	
Benzyl chloride	ug/m3	<1.2	2.6	02/10/20 11:06	
Bromodichloromethane	ug/m3	<0.37	1.4	02/10/20 11:06	
Bromoform	ug/m3	<1.4	5.2	02/10/20 11:06	
Bromomethane	ug/m3	<0.23	0.79	02/10/20 11:06	
Carbon disulfide	ug/m3	<0.22	0.63	02/10/20 11:06	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/10/20 11:06	
Chlorobenzene	ug/m3	<0.28	0.94	02/10/20 11:06	
Chloroethane	ug/m3	<0.26	0.54	02/10/20 11:06	
Chloroform	ug/m3	<0.20	0.50	02/10/20 11:06	
Chloromethane	ug/m3	<0.16	0.42	02/10/20 11:06	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/10/20 11:06	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/10/20 11:06	
Cyclohexane	ug/m3	<0.35	1.8	02/10/20 11:06	
Dibromochloromethane	ug/m3	<0.72	1.7	02/10/20 11:06	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/10/20 11:06	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/10/20 11:06	
Ethanol	ug/m3	<0.81	4.8	02/10/20 11:06	MN
Ethyl acetate	ug/m3	<0.19	0.73	02/10/20 11:06	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

METHOD BLANK: 3538004 Matrix: Air  
Associated Lab Samples: 10507770001, 10507770002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/10/20 11:06	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/10/20 11:06	
m&p-Xylene	ug/m3	<0.70	1.8	02/10/20 11:06	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/10/20 11:06	
Methylene Chloride	ug/m3	<1.2	3.5	02/10/20 11:06	
n-Heptane	ug/m3	<0.38	0.83	02/10/20 11:06	
n-Hexane	ug/m3	<0.31	0.72	02/10/20 11:06	
Naphthalene	ug/m3	<1.3	2.7	02/10/20 11:06	
o-Xylene	ug/m3	<0.34	0.88	02/10/20 11:06	
Propylene	ug/m3	<0.14	0.35	02/10/20 11:06	
Styrene	ug/m3	<0.34	0.87	02/10/20 11:06	
Tetrachloroethene	ug/m3	<0.31	0.69	02/10/20 11:06	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/10/20 11:06	
Toluene	ug/m3	<0.35	0.77	02/10/20 11:06	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/10/20 11:06	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/10/20 11:06	
Trichloroethene	ug/m3	<0.25	0.55	02/10/20 11:06	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/10/20 11:06	
Vinyl acetate	ug/m3	<0.27	0.72	02/10/20 11:06	
Vinyl chloride	ug/m3	<0.13	0.26	02/10/20 11:06	

LABORATORY CONTROL SAMPLE: 3538005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	56.0	101	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	71.1	102	70-132	
1,1,2-Trichloroethane	ug/m3	55.5	57.7	104	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	61.0	78	70-130	
1,1-Dichloroethane	ug/m3	41.1	41.5	101	70-130	
1,1-Dichloroethene	ug/m3	40.3	38.4	95	69-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	93.4	124	70-130	
1,2,4-Trimethylbenzene	ug/m3	50	59.9	120	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	82.4	105	70-138	
1,2-Dichlorobenzene	ug/m3	61.1	75.7	124	70-136	
1,2-Dichloroethane	ug/m3	41.1	39.4	96	70-130	
1,2-Dichloropropane	ug/m3	47	49.5	105	70-132	
1,3,5-Trimethylbenzene	ug/m3	50	61.5	123	70-136	
1,3-Butadiene	ug/m3	22.5	23.6	105	67-139	
1,3-Dichlorobenzene	ug/m3	61.1	74.8	122	70-138	
1,4-Dichlorobenzene	ug/m3	61.1	76.6	125	70-145	
2-Butanone (MEK)	ug/m3	30	30.9	103	61-130	
2-Hexanone	ug/m3	41.6	45.7	110	70-138	
2-Propanol	ug/m3	125	140	112	70-136	
4-Ethyltoluene	ug/m3	50	63.2	126	70-142	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

LABORATORY CONTROL SAMPLE: 3538005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	49.7	119	70-134	
Acetone	ug/m3	121	133	110	59-137	
Benzene	ug/m3	32.5	30.8	95	70-133	
Benzyl chloride	ug/m3	52.6	52.2	99	70-139	
Bromodichloromethane	ug/m3	68.1	69.3	102	70-130	
Bromoform	ug/m3	105	132	125	60-140	
Bromomethane	ug/m3	39.5	39.2	99	70-131	
Carbon disulfide	ug/m3	31.6	30.9	98	70-130	
Carbon tetrachloride	ug/m3	64	67.7	106	70-133	
Chlorobenzene	ug/m3	46.8	48.7	104	70-131	
Chloroethane	ug/m3	26.8	28.5	106	70-141	
Chloroform	ug/m3	49.6	46.2	93	70-130	
Chloromethane	ug/m3	21	21.8	104	64-137	
cis-1,2-Dichloroethene	ug/m3	40.3	40.8	101	70-132	
cis-1,3-Dichloropropene	ug/m3	46.1	50.6	110	70-138	
Cyclohexane	ug/m3	35	38.8	111	70-133	
Dibromochloromethane	ug/m3	86.6	97.7	113	70-139	
Dichlorodifluoromethane	ug/m3	50.3	45.1	90	70-130	
Dichlorotetrafluoroethane	ug/m3	71	66.9	94	65-133	
Ethanol	ug/m3	95.8	115	120	65-135	
Ethyl acetate	ug/m3	36.6	37.0	101	70-135	
Ethylbenzene	ug/m3	44.1	49.9	113	70-142	
Hexachloro-1,3-butadiene	ug/m3	108	166	154	70-134	CH,L3
m&p-Xylene	ug/m3	88.3	98.9	112	70-141	
Methyl-tert-butyl ether	ug/m3	36.6	36.1	99	70-131	
Methylene Chloride	ug/m3	177	163	92	69-130	
n-Heptane	ug/m3	41.7	45.1	108	70-130	
n-Hexane	ug/m3	35.8	36.8	103	70-131	
Naphthalene	ug/m3	53.3	53.3	100	63-130	
o-Xylene	ug/m3	44.1	48.6	110	70-135	
Propylene	ug/m3	17.5	16.6	95	63-139	
Styrene	ug/m3	43.3	55.4	128	70-143	
Tetrachloroethene	ug/m3	68.9	79.0	115	70-136	
Tetrahydrofuran	ug/m3	30	32.3	108	70-137	
Toluene	ug/m3	38.3	43.5	114	70-136	
trans-1,2-Dichloroethene	ug/m3	40.3	40.9	101	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	54.1	117	70-139	
Trichloroethene	ug/m3	54.6	61.5	113	70-132	
Trichlorofluoromethane	ug/m3	57.1	49.6	87	65-136	
Vinyl acetate	ug/m3	35.8	31.8	89	66-140	SS
Vinyl chloride	ug/m3	26	27.0	104	68-141	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

SAMPLE DUPLICATE: 3538770

Parameter	Units	10507770002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.44	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.44	<0.44		25	
1,1,2-Trichloroethane	ug/m3	<0.35	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.81	<0.81		25	
1,1-Dichloroethane	ug/m3	<0.32	<0.32		25	
1,1-Dichloroethene	ug/m3	<0.39	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	<5.4	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	<0.65	<0.65		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.53	<0.53		25	
1,2-Dichlorobenzene	ug/m3	<0.72	<0.72		25	
1,2-Dichloroethane	ug/m3	<0.22	<0.22		25	
1,2-Dichloropropane	ug/m3	<0.33	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	<0.57	<0.57		25	
1,3-Butadiene	ug/m3	<0.18	<0.18		25	
1,3-Dichlorobenzene	ug/m3	<0.84	<0.84		25	
1,4-Dichlorobenzene	ug/m3	<1.4	<1.4		25	
2-Butanone (MEK)	ug/m3	<0.53	<0.53		25	
2-Hexanone	ug/m3	<1.1	<1.1		25	
2-Propanol	ug/m3	<1.0	<1.0		25	
4-Ethyltoluene	ug/m3	<0.82	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.75	<0.75		25	
Acetone	ug/m3	<1.7	<1.7		25	
Benzene	ug/m3	0.48	0.48	1	25	
Benzyl chloride	ug/m3	<1.7	<1.7		25	
Bromodichloromethane	ug/m3	<0.53	<0.53		25	
Bromoform	ug/m3	<2.0	<2.0		25	
Bromomethane	ug/m3	<0.33	<0.33		25	
Carbon disulfide	ug/m3	<0.32	<0.32		25	
Carbon tetrachloride	ug/m3	<0.62	<0.62		25	
Chlorobenzene	ug/m3	<0.40	<0.40		25	
Chloroethane	ug/m3	<0.37	<0.37		25	
Chloroform	ug/m3	<0.28	<0.28		25	
Chloromethane	ug/m3	0.89	1.1	19	25	
cis-1,2-Dichloroethene	ug/m3	<0.32	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	<0.44	<0.44		25	
Cyclohexane	ug/m3	<0.51	<0.51		25	
Dibromochloromethane	ug/m3	<1.0	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.1	2.2	9	25	
Dichlorotetrafluoroethane	ug/m3	<0.63	<0.63		25	
Ethanol	ug/m3	8.1	8.0	0	25	
Ethyl acetate	ug/m3	<0.27	<0.27		25	
Ethylbenzene	ug/m3	<0.44	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	<2.8	<2.8		25	
m&p-Xylene	ug/m3	<1.0	<1.0		25	
Methyl-tert-butyl ether	ug/m3	<0.95	<0.95		25	
Methylene Chloride	ug/m3	2.1J	2.1J		25	
n-Heptane	ug/m3	<0.55	<0.55		25	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

SAMPLE DUPLICATE: 3538770

Parameter	Units	10507770002 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	<0.45	<0.45		25	
Naphthalene	ug/m3	<1.9	<1.9		25	
o-Xylene	ug/m3	<0.50	<0.50		25	
Propylene	ug/m3	<0.20	<0.20		25	
Styrene	ug/m3	<0.50	<0.50		25	
Tetrachloroethene	ug/m3	<0.45	<0.45		25	
Tetrahydrofuran	ug/m3	<0.38	<0.38		25	
Toluene	ug/m3	0.57J	<0.51		25	
trans-1,2-Dichloroethene	ug/m3	<0.41	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	<0.63	<0.63		25	
Trichloroethene	ug/m3	<0.36	<0.36		25	
Trichlorofluoromethane	ug/m3	1.1J	1.0J		25	
Vinyl acetate	ug/m3	<0.39	<0.39		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

SAMPLE DUPLICATE: 3538771

Parameter	Units	10507820002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.57		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.57		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.0		25	
1,1-Dichloroethane	ug/m3	ND	<0.41		25	
1,1-Dichloroethene	ug/m3	ND	<0.50		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<6.8		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.83		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.67		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.91		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
1,2-Dichloropropane	ug/m3	ND	<0.42		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.73		25	
1,3-Butadiene	ug/m3	ND	<0.23		25	
1,3-Dichlorobenzene	ug/m3	ND	<1.1		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.8		25	
2-Butanone (MEK)	ug/m3	ND	1.7J		25	
2-Hexanone	ug/m3	ND	<1.4		25	
2-Propanol	ug/m3	ND	<1.3		25	
4-Ethyltoluene	ug/m3	ND	<1.0		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.95		25	
Acetone	ug/m3	ND	5.4J		25	
Benzene	ug/m3	ND	0.38J		25	
Benzyl chloride	ug/m3	ND	<2.2		25	
Bromodichloromethane	ug/m3	ND	<0.67		25	
Bromoform	ug/m3	ND	<2.6		25	
Bromomethane	ug/m3	ND	<0.42		25	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

SAMPLE DUPLICATE: 3538771

Parameter	Units	10507820002 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.40		25	
Carbon tetrachloride	ug/m3	ND	<0.79		25	
Chlorobenzene	ug/m3	ND	<0.50		25	
Chloroethane	ug/m3	ND	<0.48		25	
Chloroform	ug/m3	ND	<0.36		25	
Chloromethane	ug/m3	1.3	1.1	13	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.40		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.56		25	
Cyclohexane	ug/m3	ND	<0.65		25	
Dibromochloromethane	ug/m3	ND	<1.3		25	
Dichlorodifluoromethane	ug/m3	2.3	2.6	14	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.80		25	
Ethanol	ug/m3	ND	7.1J		25	
Ethyl acetate	ug/m3	ND	<0.35		25	
Ethylbenzene	ug/m3	ND	<0.56		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<3.6		25	
m&p-Xylene	ug/m3	ND	<1.3		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.2		25	
Methylene Chloride	ug/m3	ND	2.4J		25	
n-Heptane	ug/m3	ND	<0.70		25	
n-Hexane	ug/m3	ND	0.61J		25	
Naphthalene	ug/m3	ND	<2.4		25	
o-Xylene	ug/m3	ND	<0.63		25	
Propylene	ug/m3	ND	<0.26		25	
Styrene	ug/m3	ND	<0.63		25	
Tetrachloroethene	ug/m3	ND	<0.57		25	
Tetrahydrofuran	ug/m3	ND	<0.48		25	
Toluene	ug/m3	ND	<0.64		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.52		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.81		25	
Trichloroethene	ug/m3	ND	<0.46		25	
Trichlorofluoromethane	ug/m3	ND	1.3J		25	
Vinyl acetate	ug/m3	ND	<0.49		25	
Vinyl chloride	ug/m3	ND	<0.23		25	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

QC Batch: 660598 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 10507770003

METHOD BLANK: 3545131 Matrix: Air  
Associated Lab Samples: 10507770003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	02/18/20 10:30	
1,1,2,2-Tetrachloroethane	ug/m3	<0.31	0.70	02/18/20 10:30	
1,1,2-Trichloroethane	ug/m3	<0.24	0.56	02/18/20 10:30	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	02/18/20 10:30	
1,1-Dichloroethane	ug/m3	<0.22	0.82	02/18/20 10:30	
1,1-Dichloroethene	ug/m3	<0.27	0.81	02/18/20 10:30	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	02/18/20 10:30	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	02/18/20 10:30	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	02/18/20 10:30	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	02/18/20 10:30	
1,2-Dichloroethane	ug/m3	<0.15	0.41	02/18/20 10:30	
1,2-Dichloropropane	ug/m3	<0.23	0.94	02/18/20 10:30	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	02/18/20 10:30	
1,3-Butadiene	ug/m3	<0.13	0.45	02/18/20 10:30	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	02/18/20 10:30	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	02/18/20 10:30	
2-Butanone (MEK)	ug/m3	<0.37	3.0	02/18/20 10:30	
2-Hexanone	ug/m3	<0.74	4.2	02/18/20 10:30	
2-Propanol	ug/m3	<0.70	2.5	02/18/20 10:30	
4-Ethyltoluene	ug/m3	<0.57	2.5	02/18/20 10:30	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	02/18/20 10:30	
Acetone	ug/m3	<1.2	2.4	02/18/20 10:30	
Benzene	ug/m3	<0.15	0.32	02/18/20 10:30	
Benzyl chloride	ug/m3	<1.2	2.6	02/18/20 10:30	
Bromodichloromethane	ug/m3	<0.37	1.4	02/18/20 10:30	
Bromoform	ug/m3	<1.4	5.2	02/18/20 10:30	
Bromomethane	ug/m3	<0.23	0.79	02/18/20 10:30	
Carbon disulfide	ug/m3	<0.22	0.63	02/18/20 10:30	
Carbon tetrachloride	ug/m3	<0.43	1.3	02/18/20 10:30	
Chlorobenzene	ug/m3	<0.28	0.94	02/18/20 10:30	
Chloroethane	ug/m3	<0.26	0.54	02/18/20 10:30	
Chloroform	ug/m3	<0.20	0.50	02/18/20 10:30	
Chloromethane	ug/m3	<0.16	0.42	02/18/20 10:30	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	02/18/20 10:30	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	02/18/20 10:30	
Cyclohexane	ug/m3	<0.35	1.8	02/18/20 10:30	
Dibromochloromethane	ug/m3	<0.72	1.7	02/18/20 10:30	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	02/18/20 10:30	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	02/18/20 10:30	
Ethanol	ug/m3	<0.81	4.8	02/18/20 10:30	SS
Ethyl acetate	ug/m3	<0.19	0.73	02/18/20 10:30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI  
Pace Project No.: 10507770

METHOD BLANK: 3545131 Matrix: Air  
Associated Lab Samples: 10507770003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	02/18/20 10:30	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	02/18/20 10:30	
m&p-Xylene	ug/m3	<0.70	1.8	02/18/20 10:30	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	02/18/20 10:30	
Methylene Chloride	ug/m3	<1.2	3.5	02/18/20 10:30	
n-Heptane	ug/m3	<0.38	0.83	02/18/20 10:30	
n-Hexane	ug/m3	<0.31	0.72	02/18/20 10:30	
Naphthalene	ug/m3	<1.3	2.7	02/18/20 10:30	
o-Xylene	ug/m3	<0.34	0.88	02/18/20 10:30	
Propylene	ug/m3	<0.14	0.35	02/18/20 10:30	
Styrene	ug/m3	<0.34	0.87	02/18/20 10:30	
Tetrachloroethene	ug/m3	<0.31	0.69	02/18/20 10:30	
Tetrahydrofuran	ug/m3	<0.26	0.60	02/18/20 10:30	
Toluene	ug/m3	<0.35	0.77	02/18/20 10:30	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	02/18/20 10:30	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	02/18/20 10:30	
Trichloroethene	ug/m3	<0.25	0.55	02/18/20 10:30	
Trichlorofluoromethane	ug/m3	<0.37	1.1	02/18/20 10:30	
Vinyl acetate	ug/m3	<0.27	0.72	02/18/20 10:30	
Vinyl chloride	ug/m3	<0.13	0.26	02/18/20 10:30	

LABORATORY CONTROL SAMPLE: 3545132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	57	62.0	109	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	71.9	73.6	102	70-132	
1,1,2-Trichloroethane	ug/m3	57.3	60.1	105	70-133	
1,1,2-Trichlorotrifluoroethane	ug/m3	80.3	81.0	101	70-130	
1,1-Dichloroethane	ug/m3	42.7	40.8	96	70-130	
1,1-Dichloroethene	ug/m3	41.4	41.2	99	69-137	
1,2,4-Trichlorobenzene	ug/m3	156	182	117	70-130	
1,2,4-Trimethylbenzene	ug/m3	51.5	47.0	91	70-137	
1,2-Dibromoethane (EDB)	ug/m3	80.3	85.7	107	70-138	
1,2-Dichlorobenzene	ug/m3	63.1	70.4	112	70-136	
1,2-Dichloroethane	ug/m3	42.4	45.1	106	70-130	
1,2-Dichloropropane	ug/m3	48.6	47.0	97	70-132	
1,3,5-Trimethylbenzene	ug/m3	51.6	45.1	87	70-136	
1,3-Butadiene	ug/m3	23.3	22.9	98	67-139	
1,3-Dichlorobenzene	ug/m3	63.4	70.6	111	70-138	
1,4-Dichlorobenzene	ug/m3	63.4	70.3	111	70-145	
2-Butanone (MEK)	ug/m3	31.4	31.4	100	61-130	
2-Hexanone	ug/m3	42.8	39.6	93	70-138	
2-Propanol	ug/m3	119	115	97	70-136	
4-Ethyltoluene	ug/m3	52.4	55.9	107	70-142	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

LABORATORY CONTROL SAMPLE: 3545132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	43.6	41.2	94	70-134	
Acetone	ug/m3	126	102	81	59-137	
Benzene	ug/m3	33.5	31.3	93	70-133	
Benzyl chloride	ug/m3	55.1	62.7	114	70-139	
Bromodichloromethane	ug/m3	71.5	77.5	108	70-130	
Bromoform	ug/m3	110	126	114	60-140	
Bromomethane	ug/m3	41.3	38.6	94	70-131	
Carbon disulfide	ug/m3	33.3	32.2	97	70-130	
Carbon tetrachloride	ug/m3	66.2	79.2	120	70-133	
Chlorobenzene	ug/m3	48.3	49.1	102	70-131	
Chloroethane	ug/m3	28.1	28.1	100	70-141	
Chloroform	ug/m3	51.1	52.3	102	70-130	
Chloromethane	ug/m3	21.9	21.9	100	64-137	
cis-1,2-Dichloroethene	ug/m3	41.6	42.8	103	70-132	
cis-1,3-Dichloropropene	ug/m3	47.7	49.8	104	70-138	
Cyclohexane	ug/m3	36.7	30.8	84	70-133	
Dibromochloromethane	ug/m3	90.7	112	123	70-139	
Dichlorodifluoromethane	ug/m3	51.6	53.8	104	70-130	
Dichlorotetrafluoroethane	ug/m3	72.7	77.3	106	65-133	
Ethanol	ug/m3	103	77.6	75	65-135	SS
Ethyl acetate	ug/m3	38.6	34.7	90	70-135	
Ethylbenzene	ug/m3	45.6	40.5	89	70-142	
Hexachloro-1,3-butadiene	ug/m3	112	143	128	70-134	
m&p-Xylene	ug/m3	91.2	79.9	88	70-141	
Methyl-tert-butyl ether	ug/m3	38.4	37.2	97	70-131	
Methylene Chloride	ug/m3	182	167	92	69-130	
n-Heptane	ug/m3	43.6	37.1	85	70-130	
n-Hexane	ug/m3	37.6	33.0	88	70-131	
Naphthalene	ug/m3	57.7	58.3	101	63-130	
o-Xylene	ug/m3	45.5	50.7	111	70-135	
Propylene	ug/m3	18.2	16.1	89	63-139	
Styrene	ug/m3	44.9	48.8	109	70-143	
Tetrachloroethene	ug/m3	71	75.0	106	70-136	
Tetrahydrofuran	ug/m3	31.5	30.4	97	70-137	
Toluene	ug/m3	39.5	36.5	92	70-136	
trans-1,2-Dichloroethene	ug/m3	42.2	42.0	100	70-132	
trans-1,3-Dichloropropene	ug/m3	47.7	50.1	105	70-139	
Trichloroethene	ug/m3	56.3	58.7	104	70-132	
Trichlorofluoromethane	ug/m3	59.7	64.2	108	65-136	
Vinyl acetate	ug/m3	34.5	32.8	95	66-140	
Vinyl chloride	ug/m3	26.7	26.0	98	68-141	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

SAMPLE DUPLICATE: 3546311

Parameter	Units	10508735007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.81		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.2J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.53		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.57		25	
1,3-Butadiene	ug/m3	ND	<0.18		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.84		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.4		25	
2-Butanone (MEK)	ug/m3	10.6	10.6	0	25	
2-Hexanone	ug/m3	ND	2.2J		25	
2-Propanol	ug/m3	4.0	4.0	0	25	
4-Ethyltoluene	ug/m3	ND	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	1.0J		25	
Acetone	ug/m3	80.1	78.5	2	25	
Benzene	ug/m3	0.95	0.96	1	25	
Benzyl chloride	ug/m3	ND	<1.7		25	
Bromodichloromethane	ug/m3	ND	<0.53		25	
Bromoform	ug/m3	ND	<2.0		25	
Bromomethane	ug/m3	ND	<0.33		25	
Carbon disulfide	ug/m3	ND	<0.32		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chlorobenzene	ug/m3	ND	<0.40		25	
Chloroethane	ug/m3	ND	<0.37		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	0.85	0.87	2	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Cyclohexane	ug/m3	ND	<0.51		25	
Dibromochloromethane	ug/m3	ND	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.8	2.7	5	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.63		25	
Ethanol	ug/m3	15.8	15.5	2	25	SS
Ethyl acetate	ug/m3	ND	<0.27		25	
Ethylbenzene	ug/m3	ND	0.51J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.8		25	
m&p-Xylene	ug/m3	ND	1.6J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.95		25	
Methylene Chloride	ug/m3	ND	4.3J		25	
n-Heptane	ug/m3	ND	<0.55		25	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

SAMPLE DUPLICATE: 3546311

Parameter	Units	10508735007 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.2	1.2	1	25	
Naphthalene	ug/m3	5.8	5.6	4	25	
o-Xylene	ug/m3	ND	<0.50		25	
Propylene	ug/m3	ND	<0.20		25	
Styrene	ug/m3	3.7	3.8	3	25	
Tetrachloroethene	ug/m3	ND	<0.45		25	
Tetrahydrofuran	ug/m3	ND	<0.38		25	
Toluene	ug/m3	2.5	2.5	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.63		25	
Trichloroethene	ug/m3	ND	<0.36		25	
Trichlorofluoromethane	ug/m3	ND	1.5J		25	
Vinyl acetate	ug/m3	ND	<0.39		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

SAMPLE DUPLICATE: 3546312

Parameter	Units	10508735009 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.44		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.81		25	
1,1-Dichloroethane	ug/m3	ND	<0.32		25	
1,1-Dichloroethene	ug/m3	ND	<0.39		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.4		25	
1,2,4-Trimethylbenzene	ug/m3	ND	0.74J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.53		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.33		25	
1,3,5-Trimethylbenzene	ug/m3	ND	0.68J		25	
1,3-Butadiene	ug/m3	ND	<0.18		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.84		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.4		25	
2-Butanone (MEK)	ug/m3	ND	<0.53		25	
2-Hexanone	ug/m3	ND	<1.1		25	
2-Propanol	ug/m3	6.1	6.1	1	25	
4-Ethyltoluene	ug/m3	ND	<0.82		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.75		25	
Acetone	ug/m3	4.1	4.2	1	25	
Benzene	ug/m3	0.84	0.84	0	25	
Benzyl chloride	ug/m3	ND	<1.7		25	
Bromodichloromethane	ug/m3	ND	<0.53		25	
Bromoform	ug/m3	ND	<2.0		25	
Bromomethane	ug/m3	ND	<0.33		25	

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### QUALITY CONTROL DATA

Project: 60602996 Grafton VI

Pace Project No.: 10507770

SAMPLE DUPLICATE: 3546312

Parameter	Units	10508735009 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.32		25	
Carbon tetrachloride	ug/m3	ND	<0.62		25	
Chlorobenzene	ug/m3	ND	<0.40		25	
Chloroethane	ug/m3	ND	<0.37		25	
Chloroform	ug/m3	ND	<0.28		25	
Chloromethane	ug/m3	0.82	0.78	5	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.32		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.44		25	
Cyclohexane	ug/m3	ND	<0.51		25	
Dibromochloromethane	ug/m3	ND	<1.0		25	
Dichlorodifluoromethane	ug/m3	2.8	2.8	0	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.63		25	
Ethanol	ug/m3	20.1	18.0	11	25	SS
Ethyl acetate	ug/m3	ND	<0.27		25	
Ethylbenzene	ug/m3	ND	<0.44		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.8		25	
m&p-Xylene	ug/m3	ND	1.4J		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.95		25	
Methylene Chloride	ug/m3	ND	2.4J		25	
n-Heptane	ug/m3	ND	<0.55		25	
n-Hexane	ug/m3	ND	0.81J		25	
Naphthalene	ug/m3	ND	<1.9		25	
o-Xylene	ug/m3	ND	<0.50		25	
Propylene	ug/m3	2.1	<0.20		25	
Styrene	ug/m3	ND	<0.50		25	
Tetrachloroethene	ug/m3	ND	<0.45		25	
Tetrahydrofuran	ug/m3	ND	<0.38		25	
Toluene	ug/m3	1.8	1.9	2	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.41		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.63		25	
Trichloroethene	ug/m3	ND	<0.36		25	
Trichlorofluoromethane	ug/m3	ND	1.5J		25	
Vinyl acetate	ug/m3	ND	<0.39		25	
Vinyl chloride	ug/m3	ND	<0.18		25	

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## QUALIFIERS

Project: 60602996 Grafton VI

Pace Project No.: 10507770

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### 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

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI

Pace Project No.: 10507770

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10507770001	IA-2	TO-15	659222		
10507770002	OA-2	TO-15	659222		
10507770003	SS-4	TO-15	660598		

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**AIR: CHAIN-C**  
The Chain-of-Custody is a LEG

**WO#: 10507770**



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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>48406</b>		Page: 1 of 1	
Company: <b>AECOM</b>		Report To: <b>AECOM</b>		Attention: <b>USAIMAGING@AECOM.com</b>		Program			
Address: <b>1555 RiverCenter Dr Milwaukee WI 53212</b>		Copy To: <b>Lanette Altenbach</b>		Company Name: <b>same</b>		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other			
Email To: <b>lori.schultz@AECOM.com</b>		Purchase Order No.:		Address: <b>same</b>		Location of Sampling by State: <b>WI</b>		Reporting Units	
Phone: <b>414.944.6168</b> Fax:		Project Name: <b>Grafton VI</b>		Pace Quote Reference:		ug/m <sup>3</sup> <input type="checkbox"/> mg/m <sup>3</sup> <input type="checkbox"/>		PPBV <input type="checkbox"/> PPMV <input type="checkbox"/>	
Requested Due Date/TAT: <b>STO</b>		Project Number: <b>20602996</b>		Pace Project Manager/Sales Rep: <b>Carolynne Trout</b>		Other <input type="checkbox"/>		Report Level: II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/>	
Pace Profile #: <b>40280</b>									

ITEM #	Section D Required Client Information		COLLECTED				Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID
	AIR SAMPLE ID		COMPOSITE START		COMPOSITE - END/GRAB						PM10	SC - Filtered Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	
	Sample IDs MUST BE UNIQUE		DATE	TIME	DATE	TIME													
	MEDIA CODE	PID Reading (Client only)																	
1	IA-Z	6LL0.1	02.05.20	1210	02.06.20	1108	29	5	2351	0241								001	
2	OA-Z	6LL0.0	02.05.20	1215	02.06.20	1109	27	5	2811	1354								002	
3	SS-4	6LL0.5	02.06.20	1110	02.06.20	1146												003	
4	[Large diagonal line across rows 4-12]																		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Comments :	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	<del>_____</del> AECOM	02.06.20	1700	GM-Jy PALE	2/7/20	945	-	Y/N	Y/N	Y/N	Y/N
								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		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <b>Keith Nielsen</b>					
SIGNATURE of SAMPLER: <b>[Signature]</b>					
DATE Signed (MM/DD/YY)		<b>02.06.20</b>			

ORIGINAL

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Document Name:  
Air Sample Condition Upon Receipt

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

Document Revised: 19Nov2019  
Page 1 of 1

Pace Analytical Services -  
Minneapolis

**Air Sample Condition  
Upon Receipt**

Client Name:  
**AECOM**

Project #:

**WO# : 10507770**

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

PM: CT1 Due Date: 02/14/20  
CLIENT: AECOM-WI

Tracking Number: \_\_\_\_\_

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

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

Temp. (TO17 and TO13 samples only) (°C): 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: 2/7/20 cmj

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. missing info on SS-4
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)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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
1A-2	2351	0241	-4	15					
0A-2	2811	1354	-2	15					
SS-4	0148	1176	-4						

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No


Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: sample coll date/time provided by K. Nielsen 2/7/20

Project Manager Review: Carolynne Trout

Date: 2/10/20



	Document Name: <b>SCUR Exception Form – Coolers Above 6°C</b>	Document Revised: 08Apr2019 Page 1 of 1
	Document No.: <b>F-MN-C-298-Rev.02</b>	Issuing Authority: Pace Minnesota Quality Office

**During sample triage, this form is to be placed in each cooler that arrives above 6.0 degrees Celsius**

**SCUR Exceptions:**

**Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																																																			
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																																																			
			<b>Multiple Cooler Project?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																																																			
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp																																													
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Tracking Number/Temperature		
1083	0282	9201
1083	0282	9234
1083	0282	9223
1083	0282	9212

**pH Adjustment Log for Preserved Samples**

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	