Feeney, John M - DNR

From: Altenbach, Lanette <Lanette.Altenbach@aecom.com>
Sent: Thursday, August 15, 2019 3:47 PM
To: Feeney, John M - DNR
Cc: Schultz, Tory
Subject: Former Quality Cleaners Off-site Vapor Intrusion Assessment (BRRTS #02-46-560212) - Initial Sample Event Results
Attachments: Figure 1 Sample Locations.pdf; Lab.Report_JULY2019.pdf

FID#: 24666470

John,
Here are the results of our VI testing. Please let us know if you have comments.

On July 23-24th, 2019 AECOM conducted work associated with the Former Quality Cleaners Off-site Vapor Intrusion Assessment. Four sub-slab vapor pins at off-site locations were installed (SS-1 through SS-4). Indoor air and outdoor ambient air samples were also collected during the same site visits as sub-slab vapor samples. Samples were collected in laboratory supplied Summa canisters and analyzed by mehtod TO-15 by Pace Analytical, a Wisconsin certified laboratory. Filed sampling was conducted in general accordance with the WDNR vapor intrusion guildance (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 the initial vapor intrusion sampling event are summarized below and the laboratory report is attached. All ambient and indoor air sample 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 indoor and outdoor ambient air sample collection points.

Sample Methodology

Vapor pins (VP) were installed on July 23rd through the concrete floor at each property and ambient air and indoor air sampling was initiated. On July 24th 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 Assembley (PMA) confirmed each vapor pin was properly installed and the sample train was contructed without leaks.

AA = Outdoor air
SS = Sub-slab results
AI = indoor air

Table 1 – Summary of Air Sampling Results

Assessment Property	Sample ID	PCE Results (µg/m^3)	TCE Results µg/m^3
1102 Bridge Street Intall	SS-1 ✓	3.9	<0.41
1233 12th Avenue Seth's Antiques	SS-2 ✓	1,390	<0.38
	SS-3 ✓	169	<0.63J
	AA-1 ✓	ND	<0.38
	AI-1 ✓	1.1	<0.37
1225-1227 12th Avenue K+G Real Estate	SS-4 ✓	2.8	2.3
	AA-2 ✓	ND	<0.54
	AI-2 ✓	ND	<0.37

Notes:
SS=sub-slab vapor sample collected at a rate of approximately 200mL/minute
AA=ambient air 24-hour sample duration
AI=indoor air 24-hour sample duration
Sub-Slab vapor risk screening level 1,400 µg/m^3
ND=Non Detect

Sub-slab VRSL µg/m^3 [1400 µg/m^3 residential] [70 µg/m^3 residential]

Indoor air [42 µg/m^3 residential] [2.1 residential]

Deviations from the Sampling and Analysis Plan

1. Two proposed sub-slab samples were not collected from the basement beneath 1102 Bridge Street because a basement was not present under the entire structure. The basement is approximately 15' x 30' and located only under the southwest corner of the building. For this reason, one sub-slab vapor intrusion sample was collected from 1102 Bridge Street.
2. 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).

Second Sampling Event Schedule

As recommended by WDNR, sampling events are to occur during the heating and cooling seasons. A second sampling event is scheduled for late-fall 2019.

Regards,

Lanette Altenbach, PG
Senior Hydrogeologist/Project Manager, Environment, Midwest
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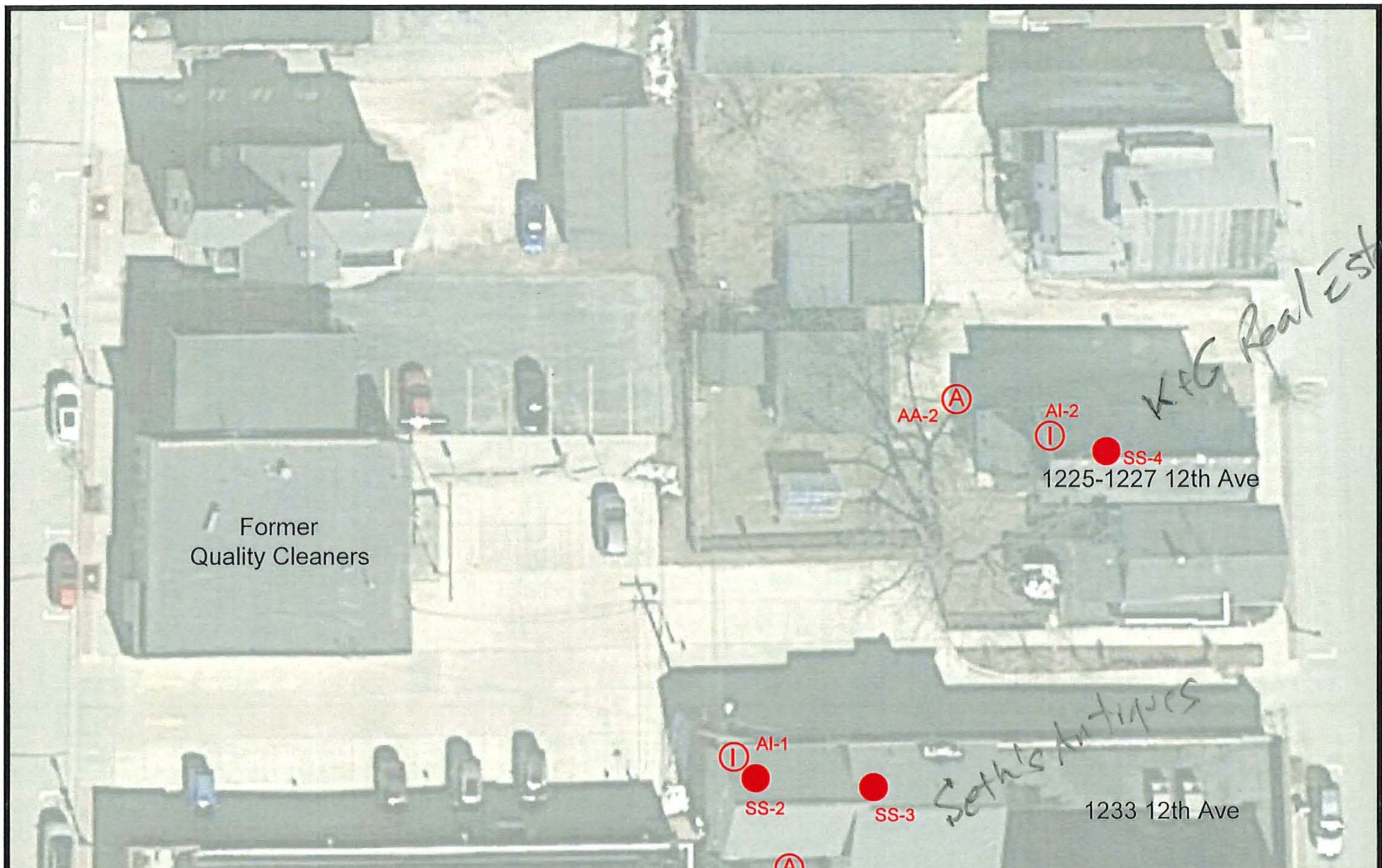

Legend:

- ● Subslab 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

AECOM

GRAFTON VI ASSESSMENT

VAPOR INTRUSION ASSESSMENT
SAMPLE LOCATIONS

Project Number:	Drawn By:	Date:	
60602996	CAS	8/13/2019	Figure No. 1

File: \\usmwk1fs001\prod\Data\Projects\60602996\900_CAD_GIS\CAD\Grafton VI Assessment.dwg; USER: SCHULTZ, TORY; PLOTTED:August 13, 2019 - 2:40 PM

Pace Analytical®
www.pacelabs.com

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
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August 02, 2019

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

RE: Project: 60602996 Grafton VI
Pace Project No.: 10484981

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on July 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

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

Enclosures

CERTIFICATIONS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Minnesota Certification IDs

1700 Elm Street SE, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Minnesota Dept of Ag Certifcation #: via MN 027-053-137
Minnesota Petrofund Certification #: 1240
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Vermont Certification #: VT-027053137
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01

SAMPLE SUMMARY

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10484981001	**AA-2**	Air	07/24/19 11:49	07/26/19 10:45
10484981002	**AI-2**	Air	07/24/19 11:47	07/26/19 10:45
10484981003	**SS-1**	Air	07/24/19 09:57	07/26/19 10:45
10484981004	**SS-2**	Air	07/24/19 11:09	07/26/19 10:45
10484981005	**SS-3**	Air	07/24/19 11:15	07/26/19 10:45
10484981006	**SS-4**	Air	07/24/19 12:15	07/26/19 10:45
10484981007	**AA-1**	Air	07/24/19 10:05	07/26/19 10:45
10484981008	**AI-1**	Air	07/24/19 10:15	07/26/19 10:45

SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10484981001	**AA-2**	TO-15	MG2	61	PASI-M
10484981002	**AI-2**	TO-15	MG2	61	PASI-M
10484981003	**SS-1**	TO-15	MG2	61	PASI-M
10484981004	**SS-2**	TO-15	MG2	61	PASI-M
10484981005	**SS-3**	TO-15	MG2	61	PASI-M
10484981006	**SS-4**	TO-15	MG2	61	PASI-M
10484981007	**AA-1**	TO-15	CH1	61	PASI-M
10484981008	**AI-1**	TO-15	CH1	61	PASI-M

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AA-2 **Lab ID: 10484981001** Collected: 07/24/19 11:49 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**10.2**	ug/m3	5.1	2.6	2.12		08/01/19 17:29	67-64-1	
Benzene	**0.47J**	ug/m3	0.69	0.32	2.12		08/01/19 17:29	71-43-2	
Benzyl chloride	**<2.5**	ug/m3	5.6	2.5	2.12		08/01/19 17:29	100-44-7	
Bromodichloromethane	**<0.78**	ug/m3	2.9	0.78	2.12		08/01/19 17:29	75-27-4	
Bromoform	**<3.0**	ug/m3	11.1	3.0	2.12		08/01/19 17:29	75-25-2	
Bromomethane	**<0.48**	ug/m3	1.7	0.48	2.12		08/01/19 17:29	74-83-9	
1,3-Butadiene	**<0.27**	ug/m3	0.95	0.27	2.12		08/01/19 17:29	106-99-0	
2-Butanone (MEK)	**2.3J**	ug/m3	6.4	0.78	2.12		08/01/19 17:29	78-93-3	
Carbon disulfide	**<0.46**	ug/m3	1.3	0.46	2.12		08/01/19 17:29	75-15-0	
Carbon tetrachloride	**<0.91**	ug/m3	2.7	0.91	2.12		08/01/19 17:29	56-23-5	
Chlorobenzene	**<0.58**	ug/m3	2.0	0.58	2.12		08/01/19 17:29	108-90-7	
Chloroethane	**<0.55**	ug/m3	1.1	0.55	2.12		08/01/19 17:29	75-00-3	
Chloroform	**<0.42**	ug/m3	1.1	0.42	2.12		08/01/19 17:29	67-66-3	
Chloromethane	**0.77J**	ug/m3	0.89	0.33	2.12		08/01/19 17:29	74-87-3	
Cyclohexane	**<0.75**	ug/m3	3.7	0.75	2.12		08/01/19 17:29	110-82-7	
Dibromochloromethane	**<1.5**	ug/m3	3.7	1.5	2.12		08/01/19 17:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.78**	ug/m3	1.7	0.78	2.12		08/01/19 17:29	106-93-4	
1,2-Dichlorobenzene	**<1.1**	ug/m3	2.6	1.1	2.12		08/01/19 17:29	95-50-1	
1,3-Dichlorobenzene	**<1.2**	ug/m3	2.6	1.2	2.12		08/01/19 17:29	541-73-1	
1,4-Dichlorobenzene	**<2.1**	ug/m3	6.5	2.1	2.12		08/01/19 17:29	106-46-7	
Dichlorodifluoromethane	**1.8J**	ug/m3	2.1	0.62	2.12		08/01/19 17:29	75-71-8	
1,1-Dichloroethane	**<0.48**	ug/m3	1.7	0.48	2.12		08/01/19 17:29	75-34-3	
1,2-Dichloroethane	**<0.32**	ug/m3	0.87	0.32	2.12		08/01/19 17:29	107-06-2	
1,1-Dichloroethene	**<0.58**	ug/m3	1.7	0.58	2.12		08/01/19 17:29	75-35-4	
cis-1,2-Dichloroethene	**<0.46**	ug/m3	1.7	0.46	2.12		08/01/19 17:29	156-59-2	
trans-1,2-Dichloroethene	**<0.60**	ug/m3	1.7	0.60	2.12		08/01/19 17:29	156-60-5	
1,2-Dichloropropane	**<0.49**	ug/m3	2.0	0.49	2.12		08/01/19 17:29	78-87-5	
cis-1,3-Dichloropropene	**<0.64**	ug/m3	2.0	0.64	2.12		08/01/19 17:29	10061-01-5	
trans-1,3-Dichloropropene	**<0.93**	ug/m3	2.0	0.93	2.12		08/01/19 17:29	10061-02-6	
Dichlorotetrafluoroethane	**<0.93**	ug/m3	3.0	0.93	2.12		08/01/19 17:29	76-14-2	
Ethanol	**24.0**	ug/m3	4.1	1.7	2.12		08/01/19 17:29	64-17-5	
Ethyl acetate	**<0.40**	ug/m3	1.6	0.40	2.12		08/01/19 17:29	141-78-6	
Ethylbenzene	**<0.65**	ug/m3	1.9	0.65	2.12		08/01/19 17:29	100-41-4	
4-Ethyltoluene	**<1.2**	ug/m3	5.3	1.2	2.12		08/01/19 17:29	622-96-8	
n-Heptane	**<0.81**	ug/m3	1.8	0.81	2.12		08/01/19 17:29	142-82-5	
Hexachloro-1,3-butadiene	**<4.2**	ug/m3	11.5	4.2	2.12		08/01/19 17:29	87-68-3	
n-Hexane	**1.4J**	ug/m3	1.5	0.66	2.12		08/01/19 17:29	110-54-3	
2-Hexanone	**<1.6**	ug/m3	8.8	1.6	2.12		08/01/19 17:29	591-78-6	
Methylene Chloride	**5.7J**	ug/m3	7.5	2.0	2.12		08/01/19 17:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<1.1**	ug/m3	8.8	1.1	2.12		08/01/19 17:29	108-10-1	
Methyl-tert-butyl ether	**<1.4**	ug/m3	7.8	1.4	2.12		08/01/19 17:29	1634-04-4	
Naphthalene	**<2.8**	ug/m3	5.6	2.8	2.12		08/01/19 17:29	91-20-3	
2-Propanol	**<1.5**	ug/m3	5.3	1.5	2.12		08/01/19 17:29	67-63-0	
Propylene	**0.58J**	ug/m3	0.74	0.30	2.12		08/01/19 17:29	115-07-1	
Styrene	**<0.73**	ug/m3	1.8	0.73	2.12		08/01/19 17:29	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.62**	ug/m3	1.5	0.62	2.12		08/01/19 17:29	79-34-5	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AA-2 **Lab ID: 10484981001** Collected: 07/24/19 11:49 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.67**	ug/m3	1.5	0.67	2.12		08/01/19 17:29	127-18-4	
Tetrahydrofuran	**<0.55**	ug/m3	1.3	0.55	2.12		08/01/19 17:29	109-99-9	
Toluene	**1.2J**	ug/m3	1.6	0.74	2.12		08/01/19 17:29	108-88-3	
1,2,4-Trichlorobenzene	**<7.9**	ug/m3	16.0	7.9	2.12		08/01/19 17:29	120-82-1	
1,1,1-Trichloroethane	**<0.66**	ug/m3	2.4	0.66	2.12		08/01/19 17:29	71-55-6	
1,1,2-Trichloroethane	**<0.53**	ug/m3	1.2	0.53	2.12		08/01/19 17:29	79-00-5	
Trichloroethene	**<0.54**	ug/m3	1.2	0.54	2.12		08/01/19 17:29	79-01-6	
Trichlorofluoromethane	**1.0J**	ug/m3	2.4	0.78	2.12		08/01/19 17:29	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<1.2**	ug/m3	3.3	1.2	2.12		08/01/19 17:29	76-13-1	
1,2,4-Trimethylbenzene	**<0.96**	ug/m3	2.1	0.96	2.12		08/01/19 17:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.85**	ug/m3	2.1	0.85	2.12		08/01/19 17:29	108-67-8	
Vinyl acetate	**<0.57**	ug/m3	1.5	0.57	2.12		08/01/19 17:29	108-05-4	
Vinyl chloride	**<0.27**	ug/m3	0.55	0.27	2.12		08/01/19 17:29	75-01-4	
m&p-Xylene	**<1.5**	ug/m3	3.8	1.5	2.12		08/01/19 17:29	179601-23-1	
o-Xylene	**<0.73**	ug/m3	1.9	0.73	2.12		08/01/19 17:29	95-47-6	

Sample: AI-2 **Lab ID: 10484981002** Collected: 07/24/19 11:47 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**8.1**	ug/m3	3.5	1.7	1.44		08/01/19 18:23	67-64-1	
Benzene	**0.38J**	ug/m3	0.47	0.22	1.44		08/01/19 18:23	71-43-2	
Benzyl chloride	**<1.7**	ug/m3	3.8	1.7	1.44		08/01/19 18:23	100-44-7	
Bromodichloromethane	**<0.53**	ug/m3	2.0	0.53	1.44		08/01/19 18:23	75-27-4	
Bromoform	**<2.0**	ug/m3	7.6	2.0	1.44		08/01/19 18:23	75-25-2	
Bromomethane	**<0.33**	ug/m3	1.1	0.33	1.44		08/01/19 18:23	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.65	0.18	1.44		08/01/19 18:23	106-99-0	
2-Butanone (MEK)	**1.2J**	ug/m3	4.3	0.53	1.44		08/01/19 18:23	78-93-3	
Carbon disulfide	**<0.32**	ug/m3	0.91	0.32	1.44		08/01/19 18:23	75-15-0	
Carbon tetrachloride	**<0.62**	ug/m3	1.8	0.62	1.44		08/01/19 18:23	56-23-5	
Chlorobenzene	**<0.40**	ug/m3	1.3	0.40	1.44		08/01/19 18:23	108-90-7	
Chloroethane	**<0.37**	ug/m3	0.77	0.37	1.44		08/01/19 18:23	75-00-3	
Chloroform	**<0.28**	ug/m3	0.71	0.28	1.44		08/01/19 18:23	67-66-3	
Chloromethane	**0.61**	ug/m3	0.60	0.22	1.44		08/01/19 18:23	74-87-3	
Cyclohexane	**<0.51**	ug/m3	2.5	0.51	1.44		08/01/19 18:23	110-82-7	
Dibromochloromethane	**<1.0**	ug/m3	2.5	1.0	1.44		08/01/19 18:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/m3	1.1	0.53	1.44		08/01/19 18:23	106-93-4	
1,2-Dichlorobenzene	**<0.72**	ug/m3	1.8	0.72	1.44		08/01/19 18:23	95-50-1	
1,3-Dichlorobenzene	**<0.84**	ug/m3	1.8	0.84	1.44		08/01/19 18:23	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.4	1.4	1.44		08/01/19 18:23	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.5	0.42	1.44		08/01/19 18:23	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.2	0.32	1.44		08/01/19 18:23	75-34-3	
1,2-Dichloroethane	**<0.22**	ug/m3	0.59	0.22	1.44		08/01/19 18:23	107-06-2	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AI-2 **Lab ID: 10484981002** Collected: 07/24/19 11:47 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.39**	ug/m3	1.2	0.39	1.44		08/01/19 18:23	75-35-4	
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		08/01/19 18:23	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		08/01/19 18:23	156-60-5	
1,2-Dichloropropane	**<0.33**	ug/m3	1.4	0.33	1.44		08/01/19 18:23	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/m3	1.3	0.44	1.44		08/01/19 18:23	10061-01-5	
trans-1,3-Dichloropropene	**<0.63**	ug/m3	1.3	0.63	1.44		08/01/19 18:23	10061-02-6	
Dichlorotetrafluoroethane	**<0.63**	ug/m3	2.0	0.63	1.44		08/01/19 18:23	76-14-2	
Ethanol	**5.2**	ug/m3	2.8	1.2	1.44		08/01/19 18:23	64-17-5	
Ethyl acetate	**<0.27**	ug/m3	1.1	0.27	1.44		08/01/19 18:23	141-78-6	
Ethylbenzene	**<0.44**	ug/m3	1.3	0.44	1.44		08/01/19 18:23	100-41-4	
4-Ethyltoluene	**<0.82**	ug/m3	3.6	0.82	1.44		08/01/19 18:23	622-96-8	
n-Heptane	**<0.55**	ug/m3	1.2	0.55	1.44		08/01/19 18:23	142-82-5	
Hexachloro-1,3-butadiene	**<2.8**	ug/m3	7.8	2.8	1.44		08/01/19 18:23	87-68-3	
n-Hexane	**0.53J**	ug/m3	1.0	0.45	1.44		08/01/19 18:23	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.0	1.1	1.44		08/01/19 18:23	591-78-6	
Methylene Chloride	**2.1J**	ug/m3	5.1	1.4	1.44		08/01/19 18:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.75**	ug/m3	6.0	0.75	1.44		08/01/19 18:23	108-10-1	
Methyl-tert-butyl ether	**<0.95**	ug/m3	5.3	0.95	1.44		08/01/19 18:23	1634-04-4	
Naphthalene	**<1.9**	ug/m3	3.8	1.9	1.44		08/01/19 18:23	91-20-3	
2-Propanol	**1.5J**	ug/m3	3.6	1.0	1.44		08/01/19 18:23	67-63-0	
Propylene	**<0.21**	ug/m3	0.50	0.21	1.44		08/01/19 18:23	115-07-1	
Styrene	**<0.50**	ug/m3	1.2	0.50	1.44		08/01/19 18:23	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.42**	ug/m3	1.0	0.42	1.44		08/01/19 18:23	79-34-5	
Tetrachloroethene	**<0.45**	ug/m3	0.99	0.45	1.44		08/01/19 18:23	127-18-4	
Tetrahydrofuran	**<0.38**	ug/m3	0.86	0.38	1.44		08/01/19 18:23	109-99-9	
Toluene	**2.0**	ug/m3	1.1	0.51	1.44		08/01/19 18:23	108-88-3	
1,2,4-Trichlorobenzene	**<5.4**	ug/m3	10.9	5.4	1.44		08/01/19 18:23	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/m3	1.6	0.44	1.44		08/01/19 18:23	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	0.80	0.36	1.44		08/01/19 18:23	79-00-5	
Trichloroethene	**<0.37**	ug/m3	0.79	0.37	1.44		08/01/19 18:23	79-01-6	
Trichlorofluoromethane	**1.0J**	ug/m3	1.6	0.53	1.44		08/01/19 18:23	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.81**	ug/m3	2.2	0.81	1.44		08/01/19 18:23	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.4	0.65	1.44		08/01/19 18:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.57**	ug/m3	1.4	0.57	1.44		08/01/19 18:23	108-67-8	
Vinyl acetate	**<0.39**	ug/m3	1.0	0.39	1.44		08/01/19 18:23	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		08/01/19 18:23	75-01-4	
m&p-Xylene	**1.3J**	ug/m3	2.5	1.0	1.44		08/01/19 18:23	179601-23-1	
o-Xylene	**0.55J**	ug/m3	1.3	0.50	1.44		08/01/19 18:23	95-47-6	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-1 **Lab ID: 10484981003** Collected: 07/24/19 09:57 Received: 07/26/19 10:45 Matrix: Air

TO15 MSV AIR Analytical Method: TO-15

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Acetone	**196**	ug/m3	3.9	1.9	1.61		08/01/19 19:16	67-64-1	
Benzene	**<0.25**	ug/m3	0.52	0.25	1.61		08/01/19 19:16	71-43-2	
Benzyl chloride	**<1.9**	ug/m3	4.2	1.9	1.61		08/01/19 19:16	100-44-7	
Bromodichloromethane	**<0.59**	ug/m3	2.2	0.59	1.61		08/01/19 19:16	75-27-4	
Bromoform	**<2.3**	ug/m3	8.5	2.3	1.61		08/01/19 19:16	75-25-2	
Bromomethane	**<0.37**	ug/m3	1.3	0.37	1.61		08/01/19 19:16	74-83-9	
1,3-Butadiene	**<0.21**	ug/m3	0.72	0.21	1.61		08/01/19 19:16	106-99-0	
2-Butanone (MEK)	**9.4**	ug/m3	4.8	0.59	1.61		08/01/19 19:16	78-93-3	
Carbon disulfide	**1.3**	ug/m3	1.0	0.35	1.61		08/01/19 19:16	75-15-0	
Carbon tetrachloride	**<0.69**	ug/m3	2.1	0.69	1.61		08/01/19 19:16	56-23-5	
Chlorobenzene	**<0.44**	ug/m3	1.5	0.44	1.61		08/01/19 19:16	108-90-7	
Chloroethane	**<0.42**	ug/m3	0.86	0.42	1.61		08/01/19 19:16	75-00-3	
Chloroform	**<0.32**	ug/m3	0.80	0.32	1.61		08/01/19 19:16	67-66-3	
Chloromethane	**<0.25**	ug/m3	0.68	0.25	1.61		08/01/19 19:16	74-87-3	
Cyclohexane	**1.7J**	ug/m3	2.8	0.57	1.61		08/01/19 19:16	110-82-7	
Dibromochloromethane	**<1.2**	ug/m3	2.8	1.2	1.61		08/01/19 19:16	124-48-1	
1,2-Dibromoethane (EDB)	**<0.59**	ug/m3	1.3	0.59	1.61		08/01/19 19:16	106-93-4	
1,2-Dichlorobenzene	**<0.80**	ug/m3	2.0	0.80	1.61		08/01/19 19:16	95-50-1	
1,3-Dichlorobenzene	**<0.94**	ug/m3	2.0	0.94	1.61		08/01/19 19:16	541-73-1	
1,4-Dichlorobenzene	**2.1J**	ug/m3	4.9	1.6	1.61		08/01/19 19:16	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.6	0.47	1.61		08/01/19 19:16	75-71-8	
1,1-Dichloroethane	**<0.36**	ug/m3	1.3	0.36	1.61		08/01/19 19:16	75-34-3	
1,2-Dichloroethane	**<0.24**	ug/m3	0.66	0.24	1.61		08/01/19 19:16	107-06-2	
1,1-Dichloroethene	**<0.44**	ug/m3	1.3	0.44	1.61		08/01/19 19:16	75-35-4	
cis-1,2-Dichloroethene	**<0.35**	ug/m3	1.3	0.35	1.61		08/01/19 19:16	156-59-2	
trans-1,2-Dichloroethene	**<0.46**	ug/m3	1.3	0.46	1.61		08/01/19 19:16	156-60-5	
1,2-Dichloropropane	**<0.37**	ug/m3	1.5	0.37	1.61		08/01/19 19:16	78-87-5	
cis-1,3-Dichloropropene	**<0.49**	ug/m3	1.5	0.49	1.61		08/01/19 19:16	10061-01-5	
trans-1,3-Dichloropropene	**<0.71**	ug/m3	1.5	0.71	1.61		08/01/19 19:16	10061-02-6	
Dichlorotetrafluoroethane	**<0.70**	ug/m3	2.3	0.70	1.61		08/01/19 19:16	76-14-2	
Ethanol	**63.3**	ug/m3	3.1	1.3	1.61		08/01/19 19:16	64-17-5	
Ethyl acetate	**<0.31**	ug/m3	1.2	0.31	1.61		08/01/19 19:16	141-78-6	
Ethylbenzene	**<0.49**	ug/m3	1.4	0.49	1.61		08/01/19 19:16	100-41-4	
4-Ethyltoluene	**<0.92**	ug/m3	4.0	0.92	1.61		08/01/19 19:16	622-96-8	
n-Heptane	**0.85J**	ug/m3	1.3	0.61	1.61		08/01/19 19:16	142-82-5	
Hexachloro-1,3-butadiene	**<3.2**	ug/m3	8.7	3.2	1.61		08/01/19 19:16	87-68-3	
n-Hexane	**0.80J**	ug/m3	1.2	0.50	1.61		08/01/19 19:16	110-54-3	
2-Hexanone	**<1.2**	ug/m3	6.7	1.2	1.61		08/01/19 19:16	591-78-6	
Methylene Chloride	**2.2J**	ug/m3	5.7	1.5	1.61		08/01/19 19:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	**2.1J**	ug/m3	6.7	0.83	1.61		08/01/19 19:16	108-10-1	
Methyl-tert-butyl ether	**<1.1**	ug/m3	5.9	1.1	1.61		08/01/19 19:16	1634-04-4	
Naphthalene	**<2.1**	ug/m3	4.3	2.1	1.61		08/01/19 19:16	91-20-3	
2-Propanol	**11.2**	ug/m3	4.0	1.1	1.61		08/01/19 19:16	67-63-0	
Propylene	**3.7**	ug/m3	0.56	0.23	1.61		08/01/19 19:16	115-07-1	
Styrene	**<0.55**	ug/m3	1.4	0.55	1.61		08/01/19 19:16	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.47**	ug/m3	1.1	0.47	1.61		08/01/19 19:16	79-34-5	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-1 **Lab ID: 10484981003** Collected: 07/24/19 09:57 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**3.9**	ug/m3	1.1	0.51	1.61		08/01/19 19:16	127-18-4	
Tetrahydrofuran	**1.1**	ug/m3	0.97	0.42	1.61		08/01/19 19:16	109-99-9	
Toluene	**0.66J**	ug/m3	1.2	0.57	1.61		08/01/19 19:16	108-88-3	
1,2,4-Trichlorobenzene	**<6.0**	ug/m3	12.1	6.0	1.61		08/01/19 19:16	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/m3	1.8	0.50	1.61		08/01/19 19:16	71-55-6	
1,1,2-Trichloroethane	**<0.40**	ug/m3	0.89	0.40	1.61		08/01/19 19:16	79-00-5	
Trichloroethene	**<0.41**	ug/m3	0.88	0.41	1.61		08/01/19 19:16	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	1.8	0.59	1.61		08/01/19 19:16	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.91**	ug/m3	2.5	0.91	1.61		08/01/19 19:16	76-13-1	
1,2,4-Trimethylbenzene	**1.0J**	ug/m3	1.6	0.73	1.61		08/01/19 19:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.64**	ug/m3	1.6	0.64	1.61		08/01/19 19:16	108-67-8	
Vinyl acetate	**<0.43**	ug/m3	1.2	0.43	1.61		08/01/19 19:16	108-05-4	
Vinyl chloride	**<0.20**	ug/m3	0.42	0.20	1.61		08/01/19 19:16	75-01-4	
m&p-Xylene	**1.3J**	ug/m3	2.8	1.1	1.61		08/01/19 19:16	179601-23-1	
o-Xylene	**2.3**	ug/m3	1.4	0.55	1.61		08/01/19 19:16	95-47-6	

Sample: SS-2 **Lab ID: 10484981004** Collected: 07/24/19 11:09 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**17.2**	ug/m3	3.6	1.8	1.49		08/01/19 19:43	67-64-1	
Benzene	**2.9**	ug/m3	0.48	0.23	1.49		08/01/19 19:43	71-43-2	
Benzyl chloride	**<1.8**	ug/m3	3.9	1.8	1.49		08/01/19 19:43	100-44-7	
Bromodichloromethane	**<0.55**	ug/m3	2.0	0.55	1.49		08/01/19 19:43	75-27-4	
Bromoform	**<2.1**	ug/m3	7.8	2.1	1.49		08/01/19 19:43	75-25-2	
Bromomethane	**<0.34**	ug/m3	1.2	0.34	1.49		08/01/19 19:43	74-83-9	
1,3-Butadiene	**<0.19**	ug/m3	0.67	0.19	1.49		08/01/19 19:43	106-99-0	
2-Butanone (MEK)	**<0.55**	ug/m3	4.5	0.55	1.49		08/01/19 19:43	78-93-3	
Carbon disulfide	**0.58J**	ug/m3	0.94	0.33	1.49		08/01/19 19:43	75-15-0	
Carbon tetrachloride	**<0.64**	ug/m3	1.9	0.64	1.49		08/01/19 19:43	56-23-5	
Chlorobenzene	**<0.41**	ug/m3	1.4	0.41	1.49		08/01/19 19:43	108-90-7	
Chloroethane	**<0.39**	ug/m3	0.80	0.39	1.49		08/01/19 19:43	75-00-3	
Chloroform	**<0.29**	ug/m3	0.74	0.29	1.49		08/01/19 19:43	67-66-3	
Chloromethane	**<0.23**	ug/m3	0.63	0.23	1.49		08/01/19 19:43	74-87-3	
Cyclohexane	**2.2J**	ug/m3	2.6	0.53	1.49		08/01/19 19:43	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.6	1.1	1.49		08/01/19 19:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.2	0.55	1.49		08/01/19 19:43	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	1.8	0.74	1.49		08/01/19 19:43	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/m3	1.8	0.87	1.49		08/01/19 19:43	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	4.6	1.5	1.49		08/01/19 19:43	106-46-7	
Dichlorodifluoromethane	**1.9**	ug/m3	1.5	0.44	1.49		08/01/19 19:43	75-71-8	
1,1-Dichloroethane	**<0.34**	ug/m3	1.2	0.34	1.49		08/01/19 19:43	75-34-3	
1,2-Dichloroethane	**<0.22**	ug/m3	0.61	0.22	1.49		08/01/19 19:43	107-06-2	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-2 **Lab ID: 10484981004** Collected: 07/24/19 11:09 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.49		08/01/19 19:43	75-35-4	
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		08/01/19 19:43	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		08/01/19 19:43	156-60-5	
1,2-Dichloropropane	**<0.34**	ug/m3	1.4	0.34	1.49		08/01/19 19:43	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/m3	1.4	0.45	1.49		08/01/19 19:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.66**	ug/m3	1.4	0.66	1.49		08/01/19 19:43	10061-02-6	
Dichlorotetrafluoroethane	**<0.65**	ug/m3	2.1	0.65	1.49		08/01/19 19:43	76-14-2	
Ethanol	**76.7**	ug/m3	2.9	1.2	1.49		08/01/19 19:43	64-17-5	
Ethyl acetate	**<0.28**	ug/m3	1.1	0.28	1.49		08/01/19 19:43	141-78-6	
Ethylbenzene	**4.2**	ug/m3	1.3	0.45	1.49		08/01/19 19:43	100-41-4	
4-Ethyltoluene	**1.5J**	ug/m3	3.7	0.85	1.49		08/01/19 19:43	622-96-8	
n-Heptane	**1.9**	ug/m3	1.2	0.57	1.49		08/01/19 19:43	142-82-5	
Hexachloro-1,3-butadiene	**<2.9**	ug/m3	8.1	2.9	1.49		08/01/19 19:43	87-68-3	
n-Hexane	**3.8**	ug/m3	1.1	0.46	1.49		08/01/19 19:43	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.2	1.1	1.49		08/01/19 19:43	591-78-6	
Methylene Chloride	**5.8**	ug/m3	5.3	1.4	1.49		08/01/19 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.77**	ug/m3	6.2	0.77	1.49		08/01/19 19:43	108-10-1	
Methyl-tert-butyl ether	**<0.99**	ug/m3	5.5	0.99	1.49		08/01/19 19:43	1634-04-4	
Naphthalene	**5.2**	ug/m3	4.0	2.0	1.49		08/01/19 19:43	91-20-3	
2-Propanol	**3.6J**	ug/m3	3.7	1.0	1.49		08/01/19 19:43	67-63-0	
Propylene	**<0.21**	ug/m3	0.52	0.21	1.49		08/01/19 19:43	115-07-1	
Styrene	**<0.51**	ug/m3	1.3	0.51	1.49		08/01/19 19:43	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.0	0.44	1.49		08/01/19 19:43	79-34-5	
Tetrachloroethene	**1390**	ug/m3	20.5	9.4	29.8		08/02/19 11:56	127-18-4	
Tetrahydrofuran	**<0.39**	ug/m3	0.89	0.39	1.49		08/01/19 19:43	109-99-9	
Toluene	**4.4**	ug/m3	1.1	0.52	1.49		08/01/19 19:43	108-88-3	
1,2,4-Trichlorobenzene	**<5.5**	ug/m3	11.2	5.5	1.49		08/01/19 19:43	120-82-1	
1,1,1-Trichloroethane	**<0.46**	ug/m3	1.7	0.46	1.49		08/01/19 19:43	71-55-6	
1,1,2-Trichloroethane	**<0.37**	ug/m3	0.83	0.37	1.49		08/01/19 19:43	79-00-5	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		08/01/19 19:43	79-01-6	
Trichlorofluoromethane	**116**	ug/m3	1.7	0.55	1.49		08/01/19 19:43	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.84**	ug/m3	2.3	0.84	1.49		08/01/19 19:43	76-13-1	
1,2,4-Trimethylbenzene	**9.1**	ug/m3	1.5	0.67	1.49		08/01/19 19:43	95-63-6	
1,3,5-Trimethylbenzene	**1.9**	ug/m3	1.5	0.59	1.49		08/01/19 19:43	108-67-8	
Vinyl acetate	**<0.40**	ug/m3	1.1	0.40	1.49		08/01/19 19:43	108-05-4	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		08/01/19 19:43	75-01-4	
m&p-Xylene	**9.8**	ug/m3	2.6	1.0	1.49		08/01/19 19:43	179601-23-1	
o-Xylene	**2.1**	ug/m3	1.3	0.51	1.49		08/01/19 19:43	95-47-6	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-3 **Lab ID: 10484981005** Collected: 07/24/19 11:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**21.9**	ug/m3	3.7	1.9	1.55		08/01/19 20:10	67-64-1	
Benzene	**<0.24**	ug/m3	0.50	0.24	1.55		08/01/19 20:10	71-43-2	
Benzyl chloride	**<1.9**	ug/m3	4.1	1.9	1.55		08/01/19 20:10	100-44-7	
Bromodichloromethane	**<0.57**	ug/m3	2.1	0.57	1.55		08/01/19 20:10	75-27-4	
Bromoform	**<2.2**	ug/m3	8.1	2.2	1.55		08/01/19 20:10	75-25-2	
Bromomethane	**<0.35**	ug/m3	1.2	0.35	1.55		08/01/19 20:10	74-83-9	
1,3-Butadiene	**<0.20**	ug/m3	0.70	0.20	1.55		08/01/19 20:10	106-99-0	
2-Butanone (MEK)	**3.8J**	ug/m3	4.6	0.57	1.55		08/01/19 20:10	78-93-3	
Carbon disulfide	**<0.34**	ug/m3	0.98	0.34	1.55		08/01/19 20:10	75-15-0	
Carbon tetrachloride	**<0.66**	ug/m3	2.0	0.66	1.55		08/01/19 20:10	56-23-5	
Chlorobenzene	**<0.43**	ug/m3	1.5	0.43	1.55		08/01/19 20:10	108-90-7	
Chloroethane	**<0.40**	ug/m3	0.83	0.40	1.55		08/01/19 20:10	75-00-3	
Chloroform	**<0.30**	ug/m3	0.77	0.30	1.55		08/01/19 20:10	67-66-3	
Chloromethane	**<0.24**	ug/m3	0.65	0.24	1.55		08/01/19 20:10	74-87-3	
Cyclohexane	**1.0J**	ug/m3	2.7	0.55	1.55		08/01/19 20:10	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.7	1.1	1.55		08/01/19 20:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.57**	ug/m3	1.2	0.57	1.55		08/01/19 20:10	106-93-4	
1,2-Dichlorobenzene	**<0.77**	ug/m3	1.9	0.77	1.55		08/01/19 20:10	95-50-1	
1,3-Dichlorobenzene	**<0.90**	ug/m3	1.9	0.90	1.55		08/01/19 20:10	541-73-1	
1,4-Dichlorobenzene	**1.7J**	ug/m3	4.7	1.6	1.55		08/01/19 20:10	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.6	0.45	1.55		08/01/19 20:10	75-71-8	
1,1-Dichloroethane	**<0.35**	ug/m3	1.3	0.35	1.55		08/01/19 20:10	75-34-3	
1,2-Dichloroethane	**<0.23**	ug/m3	0.64	0.23	1.55		08/01/19 20:10	107-06-2	
1,1-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.55		08/01/19 20:10	75-35-4	
cis-1,2-Dichloroethene	**<0.34**	ug/m3	1.2	0.34	1.55		08/01/19 20:10	156-59-2	
trans-1,2-Dichloroethene	**<0.44**	ug/m3	1.2	0.44	1.55		08/01/19 20:10	156-60-5	
1,2-Dichloropropane	**<0.36**	ug/m3	1.5	0.36	1.55		08/01/19 20:10	78-87-5	
cis-1,3-Dichloropropene	**<0.47**	ug/m3	1.4	0.47	1.55		08/01/19 20:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.68**	ug/m3	1.4	0.68	1.55		08/01/19 20:10	10061-02-6	
Dichlorotetrafluoroethane	**<0.68**	ug/m3	2.2	0.68	1.55		08/01/19 20:10	76-14-2	
Ethanol	**67.8**	ug/m3	3.0	1.3	1.55		08/01/19 20:10	64-17-5	
Ethyl acetate	**<0.29**	ug/m3	1.1	0.29	1.55		08/01/19 20:10	141-78-6	
Ethylbenzene	**<0.47**	ug/m3	1.4	0.47	1.55		08/01/19 20:10	100-41-4	
4-Ethyltoluene	**<0.88**	ug/m3	3.9	0.88	1.55		08/01/19 20:10	622-96-8	
n-Heptane	**<0.59**	ug/m3	1.3	0.59	1.55		08/01/19 20:10	142-82-5	
Hexachloro-1,3-butadiene	**<3.1**	ug/m3	8.4	3.1	1.55		08/01/19 20:10	87-68-3	
n-Hexane	**0.74J**	ug/m3	1.1	0.48	1.55		08/01/19 20:10	110-54-3	
2-Hexanone	**<1.2**	ug/m3	6.4	1.2	1.55		08/01/19 20:10	591-78-6	
Methylene Chloride	**2.9J**	ug/m3	5.5	1.5	1.55		08/01/19 20:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.1J**	ug/m3	6.4	0.80	1.55		08/01/19 20:10	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/m3	5.7	1.0	1.55		08/01/19 20:10	1634-04-4	
Naphthalene	**2.7J**	ug/m3	4.1	2.0	1.55		08/01/19 20:10	91-20-3	
2-Propanol	**3.0J**	ug/m3	3.9	1.1	1.55		08/01/19 20:10	67-63-0	
Propylene	**<0.22**	ug/m3	0.54	0.22	1.55		08/01/19 20:10	115-07-1	
Styrene	**<0.53**	ug/m3	1.3	0.53	1.55		08/01/19 20:10	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.45**	ug/m3	1.1	0.45	1.55		08/01/19 20:10	79-34-5	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-3 **Lab ID: 10484981005** Collected: 07/24/19 11:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**169**	ug/m3	1.1	0.49	1.55		08/01/19 20:10	127-18-4	
Tetrahydrofuran	**1.4**	ug/m3	0.93	0.40	1.55		08/01/19 20:10	109-99-9	
Toluene	**<0.54**	ug/m3	1.2	0.54	1.55		08/01/19 20:10	108-88-3	
1,2,4-Trichlorobenzene	**<5.8**	ug/m3	11.7	5.8	1.55		08/01/19 20:10	120-82-1	
1,1,1-Trichloroethane	**<0.48**	ug/m3	1.7	0.48	1.55		08/01/19 20:10	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/m3	0.86	0.39	1.55		08/01/19 20:10	79-00-5	
Trichloroethene	**0.63J**	ug/m3	0.85	0.40	1.55		08/01/19 20:10	79-01-6	
Trichlorofluoromethane	**30.0**	ug/m3	1.8	0.57	1.55		08/01/19 20:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.87**	ug/m3	2.4	0.87	1.55		08/01/19 20:10	76-13-1	
1,2,4-Trimethylbenzene	**<0.70**	ug/m3	1.5	0.70	1.55		08/01/19 20:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.62**	ug/m3	1.5	0.62	1.55		08/01/19 20:10	108-67-8	
Vinyl acetate	**<0.42**	ug/m3	1.1	0.42	1.55		08/01/19 20:10	108-05-4	
Vinyl chloride	**<0.20**	ug/m3	0.40	0.20	1.55		08/01/19 20:10	75-01-4	
m&p-Xylene	**<1.1**	ug/m3	2.7	1.1	1.55		08/01/19 20:10	179601-23-1	
o-Xylene	**<0.53**	ug/m3	1.4	0.53	1.55		08/01/19 20:10	95-47-6	

Sample: SS-4 **Lab ID: 10484981006** Collected: 07/24/19 12:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**51.6**	ug/m3	3.2	1.6	1.34		08/01/19 20:37	67-64-1	
Benzene	**0.78**	ug/m3	0.44	0.21	1.34		08/01/19 20:37	71-43-2	
Benzyl chloride	**<1.6**	ug/m3	3.5	1.6	1.34		08/01/19 20:37	100-44-7	
Bromodichloromethane	**<0.49**	ug/m3	1.8	0.49	1.34		08/01/19 20:37	75-27-4	
Bromoform	**<1.9**	ug/m3	7.0	1.9	1.34		08/01/19 20:37	75-25-2	
Bromomethane	**<0.30**	ug/m3	1.1	0.30	1.34		08/01/19 20:37	74-83-9	
1,3-Butadiene	**<0.17**	ug/m3	0.60	0.17	1.34		08/01/19 20:37	106-99-0	
2-Butanone (MEK)	**72.2**	ug/m3	4.0	0.49	1.34		08/01/19 20:37	78-93-3	
Carbon disulfide	**4.4**	ug/m3	0.85	0.29	1.34		08/01/19 20:37	75-15-0	
Carbon tetrachloride	**<0.57**	ug/m3	1.7	0.57	1.34		08/01/19 20:37	56-23-5	
Chlorobenzene	**<0.37**	ug/m3	1.3	0.37	1.34		08/01/19 20:37	108-90-7	
Chloroethane	**<0.35**	ug/m3	0.72	0.35	1.34		08/01/19 20:37	75-00-3	
Chloroform	**0.32J**	ug/m3	0.66	0.26	1.34		08/01/19 20:37	67-66-3	
Chloromethane	**0.78**	ug/m3	0.56	0.21	1.34		08/01/19 20:37	74-87-3	
Cyclohexane	**5.3**	ug/m3	2.3	0.47	1.34		08/01/19 20:37	110-82-7	
Dibromochloromethane	**<0.96**	ug/m3	2.3	0.96	1.34		08/01/19 20:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.49**	ug/m3	1.0	0.49	1.34		08/01/19 20:37	106-93-4	
1,2-Dichlorobenzene	**<0.67**	ug/m3	1.6	0.67	1.34		08/01/19 20:37	95-50-1	
1,3-Dichlorobenzene	**<0.78**	ug/m3	1.6	0.78	1.34		08/01/19 20:37	541-73-1	
1,4-Dichlorobenzene	**<1.3**	ug/m3	4.1	1.3	1.34		08/01/19 20:37	106-46-7	
Dichlorodifluoromethane	**1.8**	ug/m3	1.4	0.39	1.34		08/01/19 20:37	75-71-8	
1,1-Dichloroethane	**<0.30**	ug/m3	1.1	0.30	1.34		08/01/19 20:37	75-34-3	
1,2-Dichloroethane	**<0.20**	ug/m3	0.55	0.20	1.34		08/01/19 20:37	107-06-2	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: SS-4 Lab ID: **10484981006** Collected: 07/24/19 12:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.37**	ug/m3	1.1	0.37	1.34		08/01/19 20:37	75-35-4	
cis-1,2-Dichloroethene	**<0.29**	ug/m3	1.1	0.29	1.34		08/01/19 20:37	156-59-2	
trans-1,2-Dichloroethene	**<0.38**	ug/m3	1.1	0.38	1.34		08/01/19 20:37	156-60-5	
1,2-Dichloropropane	**<0.31**	ug/m3	1.3	0.31	1.34		08/01/19 20:37	78-87-5	
cis-1,3-Dichloropropene	**<0.41**	ug/m3	1.2	0.41	1.34		08/01/19 20:37	10061-01-5	
trans-1,3-Dichloropropene	**<0.59**	ug/m3	1.2	0.59	1.34		08/01/19 20:37	10061-02-6	
Dichlorotetrafluoroethane	**<0.59**	ug/m3	1.9	0.59	1.34		08/01/19 20:37	76-14-2	
Ethanol	**103**	ug/m3	2.6	1.1	1.34		08/01/19 20:37	64-17-5	
Ethyl acetate	**36.0**	ug/m3	0.98	0.25	1.34		08/01/19 20:37	141-78-6	
Ethylbenzene	**7.4**	ug/m3	1.2	0.41	1.34		08/01/19 20:37	100-41-4	
4-Ethyltoluene	**4.0**	ug/m3	3.4	0.76	1.34		08/01/19 20:37	622-96-8	
n-Heptane	**<0.51**	ug/m3	1.1	0.51	1.34		08/01/19 20:37	142-82-5	
Hexachloro-1,3-butadiene	**<2.6**	ug/m3	7.3	2.6	1.34		08/01/19 20:37	87-68-3	
n-Hexane	**13.0**	ug/m3	0.96	0.42	1.34		08/01/19 20:37	110-54-3	
2-Hexanone	**<1.0**	ug/m3	5.6	1.0	1.34		08/01/19 20:37	591-78-6	
Methylene Chloride	**82.0**	ug/m3	4.7	1.3	1.34		08/01/19 20:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	**1.5J**	ug/m3	5.6	0.69	1.34		08/01/19 20:37	108-10-1	
Methyl-tert-butyl ether	**<0.89**	ug/m3	4.9	0.89	1.34		08/01/19 20:37	1634-04-4	
Naphthalene	**11.0**	ug/m3	3.6	1.8	1.34		08/01/19 20:37	91-20-3	
2-Propanol	**21.9**	ug/m3	3.4	0.93	1.34		08/01/19 20:37	67-63-0	
Propylene	**<0.19**	ug/m3	0.47	0.19	1.34		08/01/19 20:37	115-07-1	
Styrene	**6.0**	ug/m3	1.2	0.46	1.34		08/01/19 20:37	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.39**	ug/m3	0.94	0.39	1.34		08/01/19 20:37	79-34-5	
Tetrachloroethene	**2.8**	ug/m3	0.92	0.42	1.34		08/01/19 20:37	127-18-4	
Tetrahydrofuran	**2.2**	ug/m3	0.80	0.35	1.34		08/01/19 20:37	109-99-9	
Toluene	**103**	ug/m3	1.0	0.47	1.34		08/01/19 20:37	108-88-3	
1,2,4-Trichlorobenzene	**<5.0**	ug/m3	10.1	5.0	1.34		08/01/19 20:37	120-82-1	
1,1,1-Trichloroethane	**<0.41**	ug/m3	1.5	0.41	1.34		08/01/19 20:37	71-55-6	
1,1,2-Trichloroethane	**<0.34**	ug/m3	0.74	0.34	1.34		08/01/19 20:37	79-00-5	
Trichloroethene	**2.3**	ug/m3	0.73	0.34	1.34		08/01/19 20:37	79-01-6	
Trichlorofluoromethane	**1.2J**	ug/m3	1.5	0.49	1.34		08/01/19 20:37	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.76**	ug/m3	2.1	0.76	1.34		08/01/19 20:37	76-13-1	
1,2,4-Trimethylbenzene	**26.8**	ug/m3	1.3	0.61	1.34		08/01/19 20:37	95-63-6	
1,3,5-Trimethylbenzene	**8.0**	ug/m3	1.3	0.53	1.34		08/01/19 20:37	108-67-8	
Vinyl acetate	**<0.36**	ug/m3	0.96	0.36	1.34		08/01/19 20:37	108-05-4	
Vinyl chloride	**<0.17**	ug/m3	0.35	0.17	1.34		08/01/19 20:37	75-01-4	
m&p-Xylene	**26.3**	ug/m3	2.4	0.94	1.34		08/01/19 20:37	179601-23-1	
o-Xylene	**13.9**	ug/m3	1.2	0.46	1.34		08/01/19 20:37	95-47-6	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AA-1 **Lab ID: 10484981007** Collected: 07/24/19 10:05 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**9.0**	ug/m3	3.6	1.8	1.49		07/31/19 19:11	67-64-1	
Benzene	**0.37J**	ug/m3	0.48	0.23	1.49		07/31/19 19:11	71-43-2	
Benzyl chloride	**<1.8**	ug/m3	3.9	1.8	1.49		07/31/19 19:11	100-44-7	
Bromodichloromethane	**<0.55**	ug/m3	2.0	0.55	1.49		07/31/19 19:11	75-27-4	
Bromoform	**<2.1**	ug/m3	7.8	2.1	1.49		07/31/19 19:11	75-25-2	
Bromomethane	**<0.34**	ug/m3	1.2	0.34	1.49		07/31/19 19:11	74-83-9	
1,3-Butadiene	**<0.19**	ug/m3	0.67	0.19	1.49		07/31/19 19:11	106-99-0	
2-Butanone (MEK)	**2.7J**	ug/m3	4.5	0.55	1.49		07/31/19 19:11	78-93-3	
Carbon disulfide	**<0.33**	ug/m3	0.94	0.33	1.49		07/31/19 19:11	75-15-0	
Carbon tetrachloride	**<0.64**	ug/m3	1.9	0.64	1.49		07/31/19 19:11	56-23-5	
Chlorobenzene	**<0.41**	ug/m3	1.4	0.41	1.49		07/31/19 19:11	108-90-7	
Chloroethane	**<0.39**	ug/m3	0.80	0.39	1.49		07/31/19 19:11	75-00-3	
Chloroform	**<0.29**	ug/m3	0.74	0.29	1.49		07/31/19 19:11	67-66-3	
Chloromethane	**1.0**	ug/m3	0.63	0.23	1.49		07/31/19 19:11	74-87-3	
Cyclohexane	**<0.53**	ug/m3	2.6	0.53	1.49		07/31/19 19:11	110-82-7	
Dibromochloromethane	**<1.1**	ug/m3	2.6	1.1	1.49		07/31/19 19:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.55**	ug/m3	1.2	0.55	1.49		07/31/19 19:11	106-93-4	
1,2-Dichlorobenzene	**<0.74**	ug/m3	1.8	0.74	1.49		07/31/19 19:11	95-50-1	
1,3-Dichlorobenzene	**<0.87**	ug/m3	1.8	0.87	1.49		07/31/19 19:11	541-73-1	
1,4-Dichlorobenzene	**<1.5**	ug/m3	4.6	1.5	1.49		07/31/19 19:11	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.5	0.44	1.49		07/31/19 19:11	75-71-8	
1,1-Dichloroethane	**<0.34**	ug/m3	1.2	0.34	1.49		07/31/19 19:11	75-34-3	
1,2-Dichloroethane	**<0.22**	ug/m3	0.61	0.22	1.49		07/31/19 19:11	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.49		07/31/19 19:11	75-35-4	
cis-1,2-Dichloroethene	**<0.33**	ug/m3	1.2	0.33	1.49		07/31/19 19:11	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.49		07/31/19 19:11	156-60-5	
1,2-Dichloropropane	**<0.34**	ug/m3	1.4	0.34	1.49		07/31/19 19:11	78-87-5	
cis-1,3-Dichloropropene	**<0.45**	ug/m3	1.4	0.45	1.49		07/31/19 19:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.66**	ug/m3	1.4	0.66	1.49		07/31/19 19:11	10061-02-6	
Dichlorotetrafluoroethane	**<0.65**	ug/m3	2.1	0.65	1.49		07/31/19 19:11	76-14-2	
Ethanol	**9.5**	ug/m3	2.9	1.2	1.49		07/31/19 19:11	64-17-5	
Ethyl acetate	**<0.28**	ug/m3	1.1	0.28	1.49		07/31/19 19:11	141-78-6	
Ethylbenzene	**<0.45**	ug/m3	1.3	0.45	1.49		07/31/19 19:11	100-41-4	
4-Ethyltoluene	**<0.85**	ug/m3	3.7	0.85	1.49		07/31/19 19:11	622-96-8	
n-Heptane	**<0.57**	ug/m3	1.2	0.57	1.49		07/31/19 19:11	142-82-5	
Hexachloro-1,3-butadiene	**<2.9**	ug/m3	8.1	2.9	1.49		07/31/19 19:11	87-68-3	
n-Hexane	**0.78J**	ug/m3	1.1	0.46	1.49		07/31/19 19:11	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.2	1.1	1.49		07/31/19 19:11	591-78-6	
Methylene Chloride	**3.0J**	ug/m3	5.3	1.4	1.49		07/31/19 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	**0.83J**	ug/m3	6.2	0.77	1.49		07/31/19 19:11	108-10-1	
Methyl-tert-butyl ether	**<0.99**	ug/m3	5.5	0.99	1.49		07/31/19 19:11	1634-04-4	
Naphthalene	**<2.0**	ug/m3	4.0	2.0	1.49		07/31/19 19:11	91-20-3	
2-Propanol	**1.7J**	ug/m3	3.7	1.0	1.49		07/31/19 19:11	67-63-0	
Propylene	**<0.21**	ug/m3	0.52	0.21	1.49		07/31/19 19:11	115-07-1	
Styrene	**<0.51**	ug/m3	1.3	0.51	1.49		07/31/19 19:11	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.44**	ug/m3	1.0	0.44	1.49		07/31/19 19:11	79-34-5	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AA-1 **Lab ID: 10484981007** Collected: 07/24/19 10:05 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.47**	ug/m3	1.0	0.47	1.49		07/31/19 19:11	127-18-4	
Tetrahydrofuran	**2.0**	ug/m3	0.89	0.39	1.49		07/31/19 19:11	109-99-9	
Toluene	**1.1J**	ug/m3	1.1	0.52	1.49		07/31/19 19:11	108-88-3	
1,2,4-Trichlorobenzene	**<5.5**	ug/m3	11.2	5.5	1.49		07/31/19 19:11	120-82-1	
1,1,1-Trichloroethane	**<0.46**	ug/m3	1.7	0.46	1.49		07/31/19 19:11	71-55-6	
1,1,2-Trichloroethane	**<0.37**	ug/m3	0.83	0.37	1.49		07/31/19 19:11	79-00-5	
Trichloroethene	**<0.38**	ug/m3	0.81	0.38	1.49		07/31/19 19:11	79-01-6	
Trichlorofluoromethane	**2.7**	ug/m3	1.7	0.55	1.49		07/31/19 19:11	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.84**	ug/m3	2.3	0.84	1.49		07/31/19 19:11	76-13-1	
1,2,4-Trimethylbenzene	**<0.67**	ug/m3	1.5	0.67	1.49		07/31/19 19:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.59**	ug/m3	1.5	0.59	1.49		07/31/19 19:11	108-67-8	
Vinyl acetate	**<0.40**	ug/m3	1.1	0.40	1.49		07/31/19 19:11	108-05-4	
Vinyl chloride	**<0.19**	ug/m3	0.39	0.19	1.49		07/31/19 19:11	75-01-4	
m&p-Xylene	**<1.0**	ug/m3	2.6	1.0	1.49		07/31/19 19:11	179601-23-1	
o-Xylene	**<0.51**	ug/m3	1.3	0.51	1.49		07/31/19 19:11	95-47-6	

Sample: AI-1 **Lab ID: 10484981008** Collected: 07/24/19 10:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**28.6**	ug/m3	3.5	1.7	1.44		07/31/19 20:12	67-64-1	
Benzene	**0.32J**	ug/m3	0.47	0.22	1.44		07/31/19 20:12	71-43-2	
Benzyl chloride	**<1.7**	ug/m3	3.8	1.7	1.44		07/31/19 20:12	100-44-7	
Bromodichloromethane	**<0.53**	ug/m3	2.0	0.53	1.44		07/31/19 20:12	75-27-4	
Bromoform	**<2.0**	ug/m3	7.6	2.0	1.44		07/31/19 20:12	75-25-2	
Bromomethane	**<0.33**	ug/m3	1.1	0.33	1.44		07/31/19 20:12	74-83-9	
1,3-Butadiene	**<0.18**	ug/m3	0.65	0.18	1.44		07/31/19 20:12	106-99-0	
2-Butanone (MEK)	**5.8**	ug/m3	4.3	0.53	1.44		07/31/19 20:12	78-93-3	
Carbon disulfide	**<0.32**	ug/m3	0.91	0.32	1.44		07/31/19 20:12	75-15-0	
Carbon tetrachloride	**<0.62**	ug/m3	1.8	0.62	1.44		07/31/19 20:12	56-23-5	
Chlorobenzene	**<0.40**	ug/m3	1.3	0.40	1.44		07/31/19 20:12	108-90-7	
Chloroethane	**<0.37**	ug/m3	0.77	0.37	1.44		07/31/19 20:12	75-00-3	
Chloroform	**<0.28**	ug/m3	0.71	0.28	1.44		07/31/19 20:12	67-66-3	
Chloromethane	**1.3**	ug/m3	0.60	0.22	1.44		07/31/19 20:12	74-87-3	
Cyclohexane	**<0.51**	ug/m3	2.5	0.51	1.44		07/31/19 20:12	110-82-7	
Dibromochloromethane	**<1.0**	ug/m3	2.5	1.0	1.44		07/31/19 20:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.53**	ug/m3	1.1	0.53	1.44		07/31/19 20:12	106-93-4	
1,2-Dichlorobenzene	**<0.72**	ug/m3	1.8	0.72	1.44		07/31/19 20:12	95-50-1	
1,3-Dichlorobenzene	**<0.84**	ug/m3	1.8	0.84	1.44		07/31/19 20:12	541-73-1	
1,4-Dichlorobenzene	**<1.4**	ug/m3	4.4	1.4	1.44		07/31/19 20:12	106-46-7	
Dichlorodifluoromethane	**2.3**	ug/m3	1.5	0.42	1.44		07/31/19 20:12	75-71-8	
1,1-Dichloroethane	**<0.32**	ug/m3	1.2	0.32	1.44		07/31/19 20:12	75-34-3	
1,2-Dichloroethane	**<0.22**	ug/m3	0.59	0.22	1.44		07/31/19 20:12	107-06-2	

ANALYTICAL RESULTS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Sample: AI-1 **Lab ID: 10484981008** Collected: 07/24/19 10:15 Received: 07/26/19 10:45 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethene	**<0.39**	ug/m3	1.2	0.39	1.44		07/31/19 20:12	75-35-4	
cis-1,2-Dichloroethene	**<0.32**	ug/m3	1.2	0.32	1.44		07/31/19 20:12	156-59-2	
trans-1,2-Dichloroethene	**<0.41**	ug/m3	1.2	0.41	1.44		07/31/19 20:12	156-60-5	
1,2-Dichloropropane	**<0.33**	ug/m3	1.4	0.33	1.44		07/31/19 20:12	78-87-5	
cis-1,3-Dichloropropene	**<0.44**	ug/m3	1.3	0.44	1.44		07/31/19 20:12	10061-01-5	
trans-1,3-Dichloropropene	**<0.63**	ug/m3	1.3	0.63	1.44		07/31/19 20:12	10061-02-6	
Dichlorotetrafluoroethane	**<0.63**	ug/m3	2.0	0.63	1.44		07/31/19 20:12	76-14-2	
Ethanol	**121**	ug/m3	2.8	1.2	1.44		07/31/19 20:12	64-17-5	
Ethyl acetate	**<0.27**	ug/m3	1.1	0.27	1.44		07/31/19 20:12	141-78-6	
Ethylbenzene	**0.93J**	ug/m3	1.3	0.44	1.44		07/31/19 20:12	100-41-4	
4-Ethyltoluene	**<0.82**	ug/m3	3.6	0.82	1.44		07/31/19 20:12	622-96-8	
n-Heptane	**<0.55**	ug/m3	1.2	0.55	1.44		07/31/19 20:12	142-82-5	
Hexachloro-1,3-butadiene	**<2.8**	ug/m3	7.8	2.8	1.44		07/31/19 20:12	87-68-3	
n-Hexane	**1.1**	ug/m3	1.0	0.45	1.44		07/31/19 20:12	110-54-3	
2-Hexanone	**<1.1**	ug/m3	6.0	1.1	1.44		07/31/19 20:12	591-78-6	
Methylene Chloride	**4.5J**	ug/m3	5.1	1.4	1.44		07/31/19 20:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.75**	ug/m3	6.0	0.75	1.44		07/31/19 20:12	108-10-1	
Methyl-tert-butyl ether	**<0.95**	ug/m3	5.3	0.95	1.44		07/31/19 20:12	1634-04-4	
Naphthalene	**3.0J**	ug/m3	3.8	1.9	1.44		07/31/19 20:12	91-20-3	
2-Propanol	**10.9**	ug/m3	3.6	1.0	1.44		07/31/19 20:12	67-63-0	
Propylene	**<0.21**	ug/m3	0.50	0.21	1.44		07/31/19 20:12	115-07-1	
Styrene	**<0.50**	ug/m3	1.2	0.50	1.44		07/31/19 20:12	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.42**	ug/m3	1.0	0.42	1.44		07/31/19 20:12	79-34-5	
Tetrachloroethene	**1.1**	ug/m3	0.99	0.45	1.44		07/31/19 20:12	127-18-4	
Tetrahydrofuran	**<0.38**	ug/m3	0.86	0.38	1.44		07/31/19 20:12	109-99-9	
Toluene	**5.3**	ug/m3	1.1	0.51	1.44		07/31/19 20:12	108-88-3	
1,2,4-Trichlorobenzene	**<5.4**	ug/m3	10.9	5.4	1.44		07/31/19 20:12	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/m3	1.6	0.44	1.44		07/31/19 20:12	71-55-6	
1,1,2-Trichloroethane	**<0.36**	ug/m3	0.80	0.36	1.44		07/31/19 20:12	79-00-5	
Trichloroethene	**<0.37**	ug/m3	0.79	0.37	1.44		07/31/19 20:12	79-01-6	
Trichlorofluoromethane	**228**	ug/m3	1.6	0.53	1.44		07/31/19 20:12	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.81**	ug/m3	2.2	0.81	1.44		07/31/19 20:12	76-13-1	
1,2,4-Trimethylbenzene	**1.1J**	ug/m3	1.4	0.65	1.44		07/31/19 20:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.57**	ug/m3	1.4	0.57	1.44		07/31/19 20:12	108-67-8	
Vinyl acetate	**<0.39**	ug/m3	1.0	0.39	1.44		07/31/19 20:12	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		07/31/19 20:12	75-01-4	
m&p-Xylene	**3.8**	ug/m3	2.5	1.0	1.44		07/31/19 20:12	179601-23-1	
o-Xylene	**1.5**	ug/m3	1.3	0.50	1.44		07/31/19 20:12	95-47-6	

QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

QC Batch: 623299
QC Batch Method: TO-15
Associated Lab Samples: 10484981007, 10484981008

Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level

METHOD BLANK: 3364370
Matrix: Air
Associated Lab Samples: 10484981007, 10484981008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.15	0.56	07/31/19 16:41	
1,1,2,2-Tetrachloroethane	ug/m3	<0.15	0.35	07/31/19 16:41	
1,1,2-Trichloroethane	ug/m3	<0.12	0.28	07/31/19 16:41	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.28	0.78	07/31/19 16:41	
1,1-Dichloroethane	ug/m3	<0.11	0.41	07/31/19 16:41	
1,1-Dichloroethene	ug/m3	<0.14	0.40	07/31/19 16:41	
1,2,4-Trichlorobenzene	ug/m3	<1.9	3.8	07/31/19 16:41	
1,2,4-Trimethylbenzene	ug/m3	<0.23	0.50	07/31/19 16:41	
1,2-Dibromoethane (EDB)	ug/m3	<0.18	0.39	07/31/19 16:41	
1,2-Dichlorobenzene	ug/m3	<0.25	0.61	07/31/19 16:41	
1,2-Dichloroethane	ug/m3	<0.075	0.21	07/31/19 16:41	
1,2-Dichloropropane	ug/m3	<0.12	0.47	07/31/19 16:41	
1,3,5-Trimethylbenzene	ug/m3	<0.20	0.50	07/31/19 16:41	
1,3-Butadiene	ug/m3	<0.064	0.22	07/31/19 16:41	
1,3-Dichlorobenzene	ug/m3	<0.29	0.61	07/31/19 16:41	
1,4-Dichlorobenzene	ug/m3	<0.50	1.5	07/31/19 16:41	
2-Butanone (MEK)	ug/m3	<0.18	1.5	07/31/19 16:41	
2-Hexanone	ug/m3	<0.37	2.1	07/31/19 16:41	
2-Propanol	ug/m3	<0.35	1.2	07/31/19 16:41	
4-Ethyltoluene	ug/m3	<0.28	1.2	07/31/19 16:41	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.26	2.1	07/31/19 16:41	
Acetone	ug/m3	<0.60	1.2	07/31/19 16:41	
Benzene	ug/m3	<0.076	0.16	07/31/19 16:41	
Benzyl chloride	ug/m3	<0.60	1.3	07/31/19 16:41	
Bromodichloromethane	ug/m3	<0.18	0.68	07/31/19 16:41	
Bromoform	ug/m3	<0.71	2.6	07/31/19 16:41	
Bromomethane	ug/m3	<0.11	0.39	07/31/19 16:41	
Carbon disulfide	ug/m3	<0.11	0.32	07/31/19 16:41	
Carbon tetrachloride	ug/m3	<0.21	0.64	07/31/19 16:41	
Chlorobenzene	ug/m3	<0.14	0.47	07/31/19 16:41	
Chloroethane	ug/m3	<0.13	0.27	07/31/19 16:41	
Chloroform	ug/m3	<0.098	0.25	07/31/19 16:41	
Chloromethane	ug/m3	<0.078	0.21	07/31/19 16:41	
cis-1,2-Dichloroethene	ug/m3	<0.11	0.40	07/31/19 16:41	
cis-1,3-Dichloropropene	ug/m3	<0.15	0.46	07/31/19 16:41	
Cyclohexane	ug/m3	<0.18	0.88	07/31/19 16:41	
Dibromochloromethane	ug/m3	<0.36	0.86	07/31/19 16:41	
Dichlorodifluoromethane	ug/m3	<0.15	0.50	07/31/19 16:41	
Dichlorotetrafluoroethane	ug/m3	<0.22	0.71	07/31/19 16:41	
Ethanol	ug/m3	<0.41	0.96	07/31/19 16:41	
Ethyl acetate	ug/m3	<0.095	0.37	07/31/19 16:41	

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

QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

METHOD BLANK: 3364370 Matrix: Air

Associated Lab Samples: 10484981007, 10484981008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.15	0.44	07/31/19 16:41	
Hexachloro-1,3-butadiene	ug/m3	<0.98	2.7	07/31/19 16:41	
m&p-Xylene	ug/m3	<0.35	0.88	07/31/19 16:41	
Methyl-tert-butyl ether	ug/m3	<0.33	1.8	07/31/19 16:41	
Methylene Chloride	ug/m3	<0.47	1.8	07/31/19 16:41	
n-Heptane	ug/m3	<0.19	0.42	07/31/19 16:41	
n-Hexane	ug/m3	<0.16	0.36	07/31/19 16:41	
Naphthalene	ug/m3	<0.66	1.3	07/31/19 16:41	
o-Xylene	ug/m3	<0.17	0.44	07/31/19 16:41	
Propylene	ug/m3	<0.072	0.18	07/31/19 16:41	
Styrene	ug/m3	<0.17	0.43	07/31/19 16:41	
Tetrachloroethene	ug/m3	<0.16	0.34	07/31/19 16:41	
Tetrahydrofuran	ug/m3	<0.13	0.30	07/31/19 16:41	
Toluene	ug/m3	<0.18	0.38	07/31/19 16:41	
trans-1,2-Dichloroethene	ug/m3	<0.14	0.40	07/31/19 16:41	
trans-1,3-Dichloropropene	ug/m3	<0.22	0.46	07/31/19 16:41	
Trichloroethene	ug/m3	<0.13	0.27	07/31/19 16:41	
Trichlorofluoromethane	ug/m3	<0.18	0.57	07/31/19 16:41	
Vinyl acetate	ug/m3	<0.14	0.36	07/31/19 16:41	
Vinyl chloride	ug/m3	<0.063	0.13	07/31/19 16:41	

LABORATORY CONTROL SAMPLE: 3364371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	61.8	109	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	83.1	119	70-132	
1,1,2-Trichloroethane	ug/m3	58.2	66.3	114	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	90.3	106	70-130	
1,1-Dichloroethane	ug/m3	42.4	45.9	108	70-130	
1,1-Dichloroethene	ug/m3	43.5	46.2	106	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	81.5	109	56-130	
1,2,4-Trimethylbenzene	ug/m3	53	60.3	114	70-134	
1,2-Dibromoethane (EDB)	ug/m3	83.6	92.7	111	70-130	
1,2-Dichlorobenzene	ug/m3	59.9	68.6	115	70-132	
1,2-Dichloroethane	ug/m3	42.8	46.5	109	70-130	
1,2-Dichloropropane	ug/m3	48.4	53.4	110	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.5	59.7	112	70-132	
1,3-Butadiene	ug/m3	22.5	25.1	112	65-130	
1,3-Dichlorobenzene	ug/m3	65.4	74.7	114	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	76.1	116	70-134	
2-Butanone (MEK)	ug/m3	32.4	33.7	104	70-130	
2-Hexanone	ug/m3	42.9	50.0	116	70-135	
2-Propanol	ug/m3	26.5	32.4	122	68-130	
4-Ethyltoluene	ug/m3	52	59.1	114	70-138	

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

QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

LABORATORY CONTROL SAMPLE: 3364371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	45.8	109	70-131	
Acetone	ug/m3	26.6	22.3	84	67-130	
Benzene	ug/m3	34.4	35.5	103	70-130	
Benzyl chloride	ug/m3	56.3	63.4	113	70-130	
Bromodichloromethane	ug/m3	69.5	76.8	111	70-130	
Bromoform	ug/m3	97.7	103	105	70-132	
Bromomethane	ug/m3	40.6	45.5	112	69-130	
Carbon disulfide	ug/m3	32.9	37.4	114	56-137	
Carbon tetrachloride	ug/m3	65.9	85.1	129	66-131	
Chlorobenzene	ug/m3	49.6	53.5	108	70-130	
Chloroethane	ug/m3	26.8	35.3	131	70-130	L3
Chloroform	ug/m3	52.6	54.0	103	70-130	
Chloromethane	ug/m3	22.2	23.6	106	66-130	
cis-1,2-Dichloroethene	ug/m3	41.9	45.0	107	70-130	
cis-1,3-Dichloropropene	ug/m3	48	50.9	106	70-133	
Cyclohexane	ug/m3	35.3	37.3	105	68-132	
Dibromochloromethane	ug/m3	90	105	116	70-130	
Dichlorodifluoromethane	ug/m3	52.8	51.3	97	70-130	
Dichlorotetrafluoroethane	ug/m3	74.6	75.6	101	70-130	
Ethanol	ug/m3	21.1	24.7	117	68-133	
Ethyl acetate	ug/m3	38.8	40.0	103	69-130	
Ethylbenzene	ug/m3	45.5	49.7	109	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	131	121	66-137	
m&p-Xylene	ug/m3	45.9	54.5	119	70-132	
Methyl-tert-butyl ether	ug/m3	37.4	40.2	108	70-130	
Methylene Chloride	ug/m3	38.1	41.8	110	65-130	
n-Heptane	ug/m3	43.7	44.2	101	65-130	
n-Hexane	ug/m3	37.6	37.4	100	66-130	
Naphthalene	ug/m3	52.7	57.7	110	56-130	
o-Xylene	ug/m3	44.1	48.9	111	70-130	
Propylene	ug/m3	19.2	17.3	90	67-130	
Styrene	ug/m3	44.2	51.8	117	69-136	
Tetrachloroethene	ug/m3	70.3	81.1	115	70-130	
Tetrahydrofuran	ug/m3	30.3	35.1	116	68-131	
Toluene	ug/m3	39.4	40.9	104	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	45.3	109	70-130	
trans-1,3-Dichloropropene	ug/m3	44.8	54.5	122	70-134	
Trichloroethene	ug/m3	56.3	62.5	111	70-130	
Trichlorofluoromethane	ug/m3	58.8	63.6	108	65-130	
Vinyl acetate	ug/m3	35.1	41.1	117	61-133	
Vinyl chloride	ug/m3	28.1	29.3	104	70-130	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3365710

Parameter	Units	10484981007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.46	<0.46		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.44	<0.44		25	
1,1,2-Trichloroethane	ug/m3	<0.37	<0.37		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.84	<0.84		25	
1,1-Dichloroethane	ug/m3	<0.34	<0.34		25	
1,1-Dichloroethene	ug/m3	<0.41	<0.41		25	
1,2,4-Trichlorobenzene	ug/m3	<5.5	<5.5		25	
1,2,4-Trimethylbenzene	ug/m3	<0.67	<0.67		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.55	<0.55		25	
1,2-Dichlorobenzene	ug/m3	<0.74	<0.74		25	
1,2-Dichloroethane	ug/m3	<0.22	<0.22		25	
1,2-Dichloropropane	ug/m3	<0.34	<0.34		25	
1,3,5-Trimethylbenzene	ug/m3	<0.59	<0.59		25	
1,3-Butadiene	ug/m3	<0.19	<0.19		25	
1,3-Dichlorobenzene	ug/m3	<0.87	<0.87		25	
1,4-Dichlorobenzene	ug/m3	<1.5	<1.5		25	
2-Butanone (MEK)	ug/m3	2.7J	2.8J		25	
2-Hexanone	ug/m3	<1.1	<1.1		25	
2-Propanol	ug/m3	1.7J	1.7J		25	
4-Ethyltoluene	ug/m3	<0.85	<0.85		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	0.83J	<0.77		25	
Acetone	ug/m3	9.0	9.3	3	25	
Benzene	ug/m3	0.37J	0.38J		25	
Benzyl chloride	ug/m3	<1.8	<1.8		25	
Bromodichloromethane	ug/m3	<0.55	<0.55		25	
Bromoform	ug/m3	<2.1	<2.1		25	
Bromomethane	ug/m3	<0.34	<0.34		25	
Carbon disulfide	ug/m3	<0.33	<0.33		25	
Carbon tetrachloride	ug/m3	<0.64	0.70J		25	
Chlorobenzene	ug/m3	<0.41	<0.41		25	
Chloroethane	ug/m3	<0.39	<0.39		25	
Chloroform	ug/m3	<0.29	<0.29		25	
Chloromethane	ug/m3	1.0	1.0	2	25	
cis-1,2-Dichloroethene	ug/m3	<0.33	<0.33		25	
cis-1,3-Dichloropropene	ug/m3	<0.45	<0.45		25	
Cyclohexane	ug/m3	<0.53	<0.53		25	
Dibromochloromethane	ug/m3	<1.1	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.3	2.2	5	25	
Dichlorotetrafluoroethane	ug/m3	<0.65	<0.65		25	
Ethanol	ug/m3	9.5	9.7	2	25	
Ethyl acetate	ug/m3	<0.28	<0.28		25	
Ethylbenzene	ug/m3	<0.45	<0.45		25	
Hexachloro-1,3-butadiene	ug/m3	<2.9	<2.9		25	
m&p-Xylene	ug/m3	<1.0	<1.0		25	
Methyl-tert-butyl ether	ug/m3	<0.99	<0.99		25	
Methylene Chloride	ug/m3	3.0J	3.2J		25	
n-Heptane	ug/m3	<0.57	0.72J		25	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3365710

Parameter	Units	10484981007 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	0.78J	0.77J		25	
Naphthalene	ug/m3	<2.0	<2.0		25	
o-Xylene	ug/m3	<0.51	<0.51		25	
Propylene	ug/m3	<0.21	0.70		25	
Styrene	ug/m3	<0.51	<0.51		25	
Tetrachloroethene	ug/m3	<0.47	<0.47		25	
Tetrahydrofuran	ug/m3	2.0	1.9	6	25	
Toluene	ug/m3	1.1J	1.1J		25	
trans-1,2-Dichloroethene	ug/m3	<0.42	<0.42		25	
trans-1,3-Dichloropropene	ug/m3	<0.66	<0.66		25	
Trichloroethene	ug/m3	<0.38	<0.38		25	
Trichlorofluoromethane	ug/m3	2.7	2.9	6	25	
Vinyl acetate	ug/m3	<0.40	<0.40		25	
Vinyl chloride	ug/m3	<0.19	<0.19		25	

SAMPLE DUPLICATE: 3365711

Parameter	Units	10484967010 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.46		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.44		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.37		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.84		25	
1,1-Dichloroethane	ug/m3	ND	<0.34		25	
1,1-Dichloroethene	ug/m3	ND	<0.41		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<5.5		25	
1,2,4-Trimethylbenzene	ug/m3	ND	<0.67		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.55		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.74		25	
1,2-Dichloroethane	ug/m3	ND	<0.22		25	
1,2-Dichloropropane	ug/m3	ND	<0.34		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.59		25	
1,3-Butadiene	ug/m3	ND	<0.19		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.87		25	
1,4-Dichlorobenzene	ug/m3	ND	<1.5		25	
2-Butanone (MEK)	ug/m3	ND	4.3J		25	
2-Hexanone	ug/m3	ND	<1.1		25	
2-Propanol	ug/m3	ND	2.2J		25	
4-Ethyltoluene	ug/m3	ND	<0.85		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.77		25	
Acetone	ug/m3	7.3	6.5	11	25	
Benzene	ug/m3	ND	<0.23		25	
Benzyl chloride	ug/m3	ND	<1.8		25	
Bromodichloromethane	ug/m3	ND	<0.55		25	
Bromoform	ug/m3	ND	<2.1		25	
Bromomethane	ug/m3	ND	<0.34		25	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3365711

Parameter	Units	10484967010 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	ND	<0.33		25	
Carbon tetrachloride	ug/m3	ND	<0.64		25	
Chlorobenzene	ug/m3	ND	<0.41		25	
Chloroethane	ug/m3	ND	<0.39		25	
Chloroform	ug/m3	ND	<0.29		25	
Chloromethane	ug/m3	0.98	0.89	10	25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.45		25	
Cyclohexane	ug/m3	ND	<0.53		25	
Dibromochloromethane	ug/m3	ND	<1.1		25	
Dichlorodifluoromethane	ug/m3	2.3	2.1	8	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.65		25	
Ethanol	ug/m3	4.2	3.9	7	25	
Ethyl acetate	ug/m3	ND	<0.28		25	
Ethylbenzene	ug/m3	ND	<0.45		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<2.9		25	
m&p-Xylene	ug/m3	ND	<1.0		25	
Methyl-tert-butyl ether	ug/m3	ND	<0.99		25	
Methylene Chloride	ug/m3	ND	2.7J		25	
n-Heptane	ug/m3	ND	<0.57		25	
n-Hexane	ug/m3	ND	0.77J		25	
Naphthalene	ug/m3	ND	<2.0		25	
o-Xylene	ug/m3	ND	<0.51		25	
Propylene	ug/m3	0.60	0.52	14	25	
Styrene	ug/m3	ND	<0.51		25	
Tetrachloroethene	ug/m3	ND	<0.47		25	
Tetrahydrofuran	ug/m3	ND	<0.39		25	
Toluene	ug/m3	ND	0.95J		25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.42		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.66		25	
Trichloroethene	ug/m3	ND	<0.38		25	
Trichlorofluoromethane	ug/m3	ND	1.2J		25	
Vinyl acetate	ug/m3	ND	<0.40		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

QC Batch: 623585
Analysis Method: TO-15
QC Batch Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10484981001, 10484981002, 10484981003, 10484981004, 10484981005, 10484981006

METHOD BLANK: 3365878
Matrix: Air
Associated Lab Samples: 10484981001, 10484981002, 10484981003, 10484981004, 10484981005, 10484981006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.31	1.1	08/01/19 16:08	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	08/01/19 16:08	
1,1,2-Trichloroethane	ug/m3	<0.25	0.56	08/01/19 16:08	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.56	1.6	08/01/19 16:08	
1,1-Dichloroethane	ug/m3	<0.22	0.82	08/01/19 16:08	
1,1-Dichloroethene	ug/m3	<0.27	0.81	08/01/19 16:08	
1,2,4-Trichlorobenzene	ug/m3	<3.7	7.5	08/01/19 16:08	
1,2,4-Trimethylbenzene	ug/m3	<0.45	1.0	08/01/19 16:08	
1,2-Dibromoethane (EDB)	ug/m3	<0.37	0.78	08/01/19 16:08	
1,2-Dichlorobenzene	ug/m3	<0.50	1.2	08/01/19 16:08	
1,2-Dichloroethane	ug/m3	<0.15	0.41	08/01/19 16:08	
1,2-Dichloropropane	ug/m3	<0.23	0.94	08/01/19 16:08	
1,3,5-Trimethylbenzene	ug/m3	<0.40	1.0	08/01/19 16:08	
1,3-Butadiene	ug/m3	<0.13	0.45	08/01/19 16:08	
1,3-Dichlorobenzene	ug/m3	<0.58	1.2	08/01/19 16:08	
1,4-Dichlorobenzene	ug/m3	<1.0	3.1	08/01/19 16:08	
2-Butanone (MEK)	ug/m3	<0.37	3.0	08/01/19 16:08	
2-Hexanone	ug/m3	<0.74	4.2	08/01/19 16:08	
2-Propanol	ug/m3	<0.70	2.5	08/01/19 16:08	
4-Ethyltoluene	ug/m3	<0.57	2.5	08/01/19 16:08	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.52	4.2	08/01/19 16:08	
Acetone	ug/m3	<1.2	2.4	08/01/19 16:08	
Benzene	ug/m3	<0.15	0.32	08/01/19 16:08	
Benzyl chloride	ug/m3	<1.2	2.6	08/01/19 16:08	
Bromodichloromethane	ug/m3	<0.37	1.4	08/01/19 16:08	
Bromoform	ug/m3	<1.4	5.2	08/01/19 16:08	
Bromomethane	ug/m3	<0.23	0.79	08/01/19 16:08	
Carbon disulfide	ug/m3	<0.22	0.63	08/01/19 16:08	
Carbon tetrachloride	ug/m3	<0.43	1.3	08/01/19 16:08	
Chlorobenzene	ug/m3	<0.28	0.94	08/01/19 16:08	
Chloroethane	ug/m3	<0.26	0.54	08/01/19 16:08	
Chloroform	ug/m3	<0.20	0.50	08/01/19 16:08	
Chloromethane	ug/m3	<0.16	0.42	08/01/19 16:08	
cis-1,2-Dichloroethene	ug/m3	<0.22	0.81	08/01/19 16:08	
cis-1,3-Dichloropropene	ug/m3	<0.30	0.92	08/01/19 16:08	
Cyclohexane	ug/m3	<0.35	1.8	08/01/19 16:08	
Dibromochloromethane	ug/m3	<0.72	1.7	08/01/19 16:08	
Dichlorodifluoromethane	ug/m3	<0.29	1.0	08/01/19 16:08	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	08/01/19 16:08	
Ethanol	ug/m3	<0.81	1.9	08/01/19 16:08	
Ethyl acetate	ug/m3	<0.19	0.73	08/01/19 16:08	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

METHOD BLANK: 3365878 Matrix: Air

Associated Lab Samples: 10484981001, 10484981002, 10484981003, 10484981004, 10484981005, 10484981006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.30	0.88	08/01/19 16:08	
Hexachloro-1,3-butadiene	ug/m3	<2.0	5.4	08/01/19 16:08	
m&p-Xylene	ug/m3	<0.70	1.8	08/01/19 16:08	
Methyl-tert-butyl ether	ug/m3	<0.66	3.7	08/01/19 16:08	
Methylene Chloride	ug/m3	<0.94	3.5	08/01/19 16:08	
n-Heptane	ug/m3	<0.38	0.83	08/01/19 16:08	
n-Hexane	ug/m3	<0.31	0.72	08/01/19 16:08	
Naphthalene	ug/m3	<1.3	2.7	08/01/19 16:08	
o-Xylene	ug/m3	<0.34	0.88	08/01/19 16:08	
Propylene	ug/m3	<0.14	0.35	08/01/19 16:08	
Styrene	ug/m3	<0.34	0.87	08/01/19 16:08	
Tetrachloroethene	ug/m3	<0.31	0.69	08/01/19 16:08	
Tetrahydrofuran	ug/m3	<0.26	0.60	08/01/19 16:08	
Toluene	ug/m3	<0.35	0.77	08/01/19 16:08	
trans-1,2-Dichloroethene	ug/m3	<0.28	0.81	08/01/19 16:08	
trans-1,3-Dichloropropene	ug/m3	<0.44	0.92	08/01/19 16:08	
Trichloroethene	ug/m3	<0.26	0.55	08/01/19 16:08	
Trichlorofluoromethane	ug/m3	<0.37	1.1	08/01/19 16:08	
Vinyl acetate	ug/m3	<0.27	0.72	08/01/19 16:08	
Vinyl chloride	ug/m3	<0.13	0.26	08/01/19 16:08	

LABORATORY CONTROL SAMPLE: 3365879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	56.6	56.4	100	70-130	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	69.5	100	70-132	
1,1,2-Trichloroethane	ug/m3	58.2	57.4	99	70-130	
1,1,2-Trichlorotrifluoroethane	ug/m3	84.9	76.8	90	70-130	
1,1-Dichloroethane	ug/m3	42.4	42.5	100	70-130	
1,1-Dichloroethene	ug/m3	43.5	39.6	91	70-130	
1,2,4-Trichlorobenzene	ug/m3	74.7	91.6	123	56-130	
1,2,4-Trimethylbenzene	ug/m3	53	54.6	103	70-134	
1,2-Dibromoethane (EDB)	ug/m3	83.6	80.1	96	70-130	
1,2-Dichlorobenzene	ug/m3	59.9	67.0	112	70-132	
1,2-Dichloroethane	ug/m3	42.8	43.1	101	70-130	
1,2-Dichloropropane	ug/m3	48.4	48.2	100	70-130	
1,3,5-Trimethylbenzene	ug/m3	53.5	53.4	100	70-132	
1,3-Butadiene	ug/m3	22.5	22.4	100	65-130	
1,3-Dichlorobenzene	ug/m3	65.4	66.2	101	70-137	
1,4-Dichlorobenzene	ug/m3	65.4	63.8	98	70-134	
2-Butanone (MEK)	ug/m3	32.4	25.2	78	70-130	
2-Hexanone	ug/m3	42.9	48.0	112	70-135	
2-Propanol	ug/m3	26.5	27.0	102	68-130	
4-Ethyltoluene	ug/m3	52	55.3	106	70-138	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

LABORATORY CONTROL SAMPLE: 3365879

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	42	45.8	109	70-131	
Acetone	ug/m3	26.6	23.5	89	67-130	
Benzene	ug/m3	34.4	32.8	95	70-130	
Benzyl chloride	ug/m3	56.3	55.7	99	70-130	
Bromodichloromethane	ug/m3	69.5	69.0	99	70-130	
Bromoform	ug/m3	97.7	108	111	70-132	
Bromomethane	ug/m3	40.6	38.7	95	69-130	
Carbon disulfide	ug/m3	32.9	33.0	100	56-137	
Carbon tetrachloride	ug/m3	65.9	70.0	106	66-131	
Chlorobenzene	ug/m3	49.6	46.0	93	70-130	
Chloroethane	ug/m3	26.8	30.2	113	70-130	
Chloroform	ug/m3	52.6	49.6	94	70-130	
Chloromethane	ug/m3	22.2	20.8	93	66-130	
cis-1,2-Dichloroethene	ug/m3	41.9	42.3	101	70-130	
cis-1,3-Dichloropropene	ug/m3	48	46.1	96	70-133	
Cyclohexane	ug/m3	35.3	37.1	105	68-132	
Dibromochloromethane	ug/m3	90	89.4	99	70-130	
Dichlorodifluoromethane	ug/m3	52.8	50.8	96	70-130	
Dichlorotetrafluoroethane	ug/m3	74.6	67.9	91	70-130	
Ethanol	ug/m3	21.1	20.1	96	68-133	
Ethyl acetate	ug/m3	38.8	38.8	100	69-130	
Ethylbenzene	ug/m3	45.5	46.9	103	67-131	
Hexachloro-1,3-butadiene	ug/m3	108	147	135	66-137	
m&p-Xylene	ug/m3	45.9	52.7	115	70-132	
Methyl-tert-butyl ether	ug/m3	37.4	38.2	102	70-130	
Methylene Chloride	ug/m3	38.1	39.2	103	65-130	
n-Heptane	ug/m3	43.7	43.2	99	65-130	
n-Hexane	ug/m3	37.6	35.3	94	66-130	
Naphthalene	ug/m3	52.7	65.0	123	56-130	
o-Xylene	ug/m3	44.1	45.1	102	70-130	
Propylene	ug/m3	19.2	17.5	91	67-130	
Styrene	ug/m3	44.2	49.5	112	69-136	
Tetrachloroethene	ug/m3	70.3	68.0	97	70-130	
Tetrahydrofuran	ug/m3	30.3	34.7	115	68-131	
Toluene	ug/m3	39.4	39.8	101	70-130	
trans-1,2-Dichloroethene	ug/m3	41.5	42.6	103	70-130	
trans-1,3-Dichloropropene	ug/m3	44.8	50.7	113	70-134	
Trichloroethene	ug/m3	56.3	55.3	98	70-130	
Trichlorofluoromethane	ug/m3	58.8	56.3	96	65-130	
Vinyl acetate	ug/m3	35.1	40.5	115	61-133	
Vinyl chloride	ug/m3	28.1	25.7	92	70-130	

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

QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3367237

Parameter	Units	10484981001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.66	<0.66		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.62	<0.62		25	
1,1,2-Trichloroethane	ug/m3	<0.53	<0.53		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<1.2	<1.2		25	
1,1-Dichloroethane	ug/m3	<0.48	<0.48		25	
1,1-Dichloroethene	ug/m3	<0.58	<0.58		25	
1,2,4-Trichlorobenzene	ug/m3	<7.9	<7.9		25	
1,2,4-Trimethylbenzene	ug/m3	<0.96	<0.96		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.78	<0.78		25	
1,2-Dichlorobenzene	ug/m3	<1.1	<1.1		25	
1,2-Dichloroethane	ug/m3	<0.32	<0.32		25	
1,2-Dichloropropane	ug/m3	<0.49	<0.49		25	
1,3,5-Trimethylbenzene	ug/m3	<0.85	<0.85		25	
1,3-Butadiene	ug/m3	<0.27	<0.27		25	
1,3-Dichlorobenzene	ug/m3	<1.2	<1.2		25	
1,4-Dichlorobenzene	ug/m3	<2.1	<2.1		25	
2-Butanone (MEK)	ug/m3	2.3J	2.1J		25	
2-Hexanone	ug/m3	<1.6	<1.6		25	
2-Propanol	ug/m3	<1.5	<1.5		25	
4-Ethyltoluene	ug/m3	<1.2	<1.2		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<1.1	<1.1		25	
Acetone	ug/m3	10.2	9.9	3	25	
Benzene	ug/m3	0.47J	0.46J		25	
Benzyl chloride	ug/m3	<2.5	<2.5		25	
Bromodichloromethane	ug/m3	<0.78	<0.78		25	
Bromoform	ug/m3	<3.0	<3.0		25	
Bromomethane	ug/m3	<0.48	<0.48		25	
Carbon disulfide	ug/m3	<0.46	<0.46		25	
Carbon tetrachloride	ug/m3	<0.91	<0.91		25	
Chlorobenzene	ug/m3	<0.58	<0.58		25	
Chloroethane	ug/m3	<0.55	<0.55		25	
Chloroform	ug/m3	<0.42	<0.42		25	
Chloromethane	ug/m3	0.77J	0.72J		25	
cis-1,2-Dichloroethene	ug/m3	<0.46	<0.46		25	
cis-1,3-Dichloropropene	ug/m3	<0.64	<0.64		25	
Cyclohexane	ug/m3	<0.75	<0.75		25	
Dibromochloromethane	ug/m3	<1.5	<1.5		25	
Dichlorodifluoromethane	ug/m3	1.8J	1.7J		25	
Dichlorotetrafluoroethane	ug/m3	<0.93	<0.93		25	
Ethanol	ug/m3	24.0	23.0	4	25	
Ethyl acetate	ug/m3	<0.40	<0.40		25	
Ethylbenzene	ug/m3	<0.65	<0.65		25	
Hexachloro-1,3-butadiene	ug/m3	<4.2	<4.2		25	
m&p-Xylene	ug/m3	<1.5	<1.5		25	
Methyl-tert-butyl ether	ug/m3	<1.4	<1.4		25	
Methylene Chloride	ug/m3	5.7J	5.5J		25	
n-Heptane	ug/m3	<0.81	<0.81		25	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3367237

Parameter	Units	10484981001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.4J	1.3J		25	
Naphthalene	ug/m3	<2.8	<2.8		25	
o-Xylene	ug/m3	<0.73	<0.73		25	
Propylene	ug/m3	0.58J	0.63J		25	
Styrene	ug/m3	<0.73	<0.73		25	
Tetrachloroethene	ug/m3	<0.67	<0.67		25	
Tetrahydrofuran	ug/m3	<0.55	<0.55		25	
Toluene	ug/m3	1.2J	1.2J		25	
trans-1,2-Dichloroethene	ug/m3	<0.60	<0.60		25	
trans-1,3-Dichloropropene	ug/m3	<0.93	<0.93		25	
Trichloroethene	ug/m3	<0.54	<0.54		25	
Trichlorofluoromethane	ug/m3	1.0J	0.96J		25	
Vinyl acetate	ug/m3	<0.57	<0.57		25	
Vinyl chloride	ug/m3	<0.27	<0.27		25	

SAMPLE DUPLICATE: 3367238

Parameter	Units	10484981002 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	<0.42	<0.42		25	
1,1,2-Trichloroethane	ug/m3	<0.36	<0.36		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	1.1J	1.1J		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	1.2J	1.2J		25	
2-Hexanone	ug/m3	<1.1	<1.1		25	
2-Propanol	ug/m3	1.5J	1.6J		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	8.1	8.2	1	25	
Benzene	ug/m3	0.38J	0.39J		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	

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI
Pace Project No.: 10484981

SAMPLE DUPLICATE: 3367238

Parameter	Units	10484981002 Result	Dup Result	RPD	Max RPD	Qualifiers
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	0.61	0.60J		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	1.9	1.8	4	25	
Dichlorotetrafluoroethane	ug/m3	<0.63	<0.63		25	
Ethanol	ug/m3	5.2	5.6	7	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	1.3J	1.3J		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	
n-Hexane	ug/m3	0.53J	0.55J		25	
Naphthalene	ug/m3	<1.9	<1.9		25	
o-Xylene	ug/m3	0.55J	0.55J		25	
Propylene	ug/m3	<0.21	<0.21		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	2.0	2.0	1	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	<0.37	<0.37		25	
Trichlorofluoromethane	ug/m3	1.0J	1.1J		25	
Vinyl acetate	ug/m3	<0.39	<0.39		25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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

QUALIFIERS

Project: 60602996 Grafton VI
Pace Project No.: 10484981

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

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI
Pace Project No.: 10484981

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10484981001	**AA-2**	TO-15	623585		
10484981002	**AI-2**	TO-15	623585		
10484981003	**SS-1**	TO-15	623585		
10484981004	**SS-2**	TO-15	623585		
10484981005	**SS-3**	TO-15	623585		
10484981006	**SS-4**	TO-15	623585		
10484981007	**AA-1**	TO-15	623299		
10484981008	**AI-1**	TO-15	623299		

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AIR: CHAIN-OF-CUSTODY /

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

WO# : 10484981

10484981

39033

Page: 1 of 1

Section A
Required Client Information:

Company: AECOM
Address: 1555 N Rivercenter Drive
Milwaukee WI 53212
Email To: Lanette.Altenbach@AECOM.com
Phone: 414.944.6186
Fax:
Requested Due Date/TAT:

Section B
Required Project Information:

Report To: AECOM
Copy To: Lanette Altenbach
Purchase Order No.:
Project Name: Grafton VI
Project Number: 60602996

Section C
Invoice Information:

Attention: USAIMAGING@AECOM.com
Company Name: Same
Address: Same
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #: 40280

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__

Section D Required Client Information

Valid Media Codes

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

ITEM #	AIR SAMPLE ID Sample IDs MUST BE UNIQUE	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	 TIME	 COMPOSITE - END/GRAB DATE	 TIME	Canister Pressure (Initial Field - In Hg)	Canister Pressure (Final Field - In Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	~~AA-1~~	~~6LC~~	~~0.0~~	~~07.23.19~~	~~10:06~~	~~07.24.19~~	~~10:05~~	~~30~~	~~5~~	~~3367~~	~~2018~~										KEN 07.24.19
2	~~AI-1~~	~~6LC~~	~~0.0~~	~~07.23.19~~	~~10:07~~	~~07.24.19~~	~~10:15~~	~~29~~	~~4~~	~~6637~~	~~2019~~										KEN 07.24.19
3	AA-2	6LC	0.0	07.23.19	11:01	07.24.19	11:49	-29	-13	1726	2102						X		~~X~~		KEN 07.24.19 001
4	AI-2	6LC	0.0	07.23.19	11:50	07.24.19	11:47	-30	-4	1481	2038						X		~~X~~		KEN 07.24.19 002
5	SS-1	6LC	0.5	07.24.19	09:15	07.24.19	09:57	28	5	3478	0787						X		~~X~~		KEN 07.24.19 003
6	SS-2	6LC	0.0	07.24.19	10:32	07.24.19	11:09	30	5	1564	2818						X		~~X~~		KEN 07.24.19 004
7	SS-3	6LC	0.1	07.24.19	10:37	07.24.19	11:15	30	5	578	1647						X		~~X~~		KEN 07.24.19 005
8	SS-4	6LC	0.0	07.24.19	11:45	07.24.19	12:15	5	0	07	0684						X				006
9	AA-1	6LC	0.0	07.23.19	10:06	07.24.19	10:05	-30	-5	1280	2018						X		~~X~~		KEN 07.24.19 007
10	AI-1	6LC	0.0	07.23.19	10:07	07.24.19	10:15	-29	-4	3367	2019						X		~~X~~		KEN 07.24.19 008
11																					
12																					

Comments : SS-4 : Tory Schultz (AECOM) spoke with lab PM Carolynne Trout on 07.24.19 @ 10:09 to confirm no history of a faulty summa canister or flow control valve. Lab indicated pressure gauge may not be accurately reading; proceed with a 30-minute test.

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Keith Nielsen AECOM	07.24.19 @	1300	TA	7-24-19	1300		Y/N	Y/N	Y/N
	7-24-19	1700	Keith Nielsen AECOM	07.24.19	1830		Y/N	Y/N	Y/N
Keith Nielsen AECOM	07.24.19 @	1830	Pace	7/26/19	10:45	–	Y/[✓ N]	Y/[✓ N] WO 7/26/19	[✓ Y]/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Keith Nielsen
SIGNATURE of SAMPLER:
DATE Signed (MM / DD / YY): 07.24.19

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

FC046Rev.01, 03Feb2010

All samples TO-15 Full List VOCs

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 31Jan2019 Page 1 of 1
	Document No.: F-MN-A-106-rev.18	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: AECOM

Project #:

WO# : 10484981

PM: CT1 Due Date: 08/02/19

CLIENT: AECOM-WI

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

Tracking Number: 1083 0278 9627/9638

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): —

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

Thermometer Used: ☐ G87A9170600254 ☐ G87A9155100842

Date & Initials of Person Examining Contents: WD 7/29/19

Type of ice Received ☐ Blue ☐ Wet ☑ None

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

Samples Received: Pressure Gauge # ☐ 10AIR34 ☑ 10AIR35

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
AA-2	1726	2102	-11	+5					
AI-2	1481	2038	-2	+5					
SS-1	3478	0787	-5	+5					
SS-2	1564	2818	-3	〃					
SS-3	0578 ~~0764~~ WD 7/29/19	1647	-4	〃					
SS-4	0007	0684	0	〃					
AA-1	1280	2018	-3	〃					
AI-1	3367	2019	-2	〃					

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Carolynne Trout Date: 7/29/19

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