

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



February 7, 2020

Mr. Vijay Seth & Ms. Barbara A. Seth
1114 Bridge St.
Grafton, WI 53024

SUBJECT: Results of 2nd Round Vapor Intrusion Sampling at 1233 12th Ave., Grafton, WI
Related to former Quality Cleaners, 1226 11th Avenue, Grafton, WI
BRRTS #: 02-46-560212, FID #: 246166470

Dear Mr. Vijay Seth & Ms. Barbara A. Seth,

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

On November 18, 2019, the environmental contractor, AECOM, hired by the DNR, collected a 2nd round of samples. 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 some amount of PCE was detected in the samples taken from beneath your foundation, and a trace amount was detected in the indoor air sample. Although PCE was detected in soil vapors beneath your foundation floor and in the indoor air, the levels at which it was detected are 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 vapor entering your property from beneath the foundation. Additional sampling needs to be conducted in order to confirm these results. AECOM will contact you soon to schedule another sampling visit.

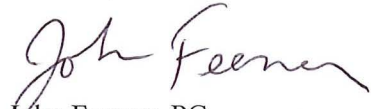
The laboratory report also shows very low levels of volatile organic compounds (VOCs) other than PCE and TCE in soil vapors from beneath your building. This is likely due to trace amounts of VOCs from products such as paints, adhesives, fragrances, etc. that are commonly found in the typical home or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

BRRTS #: 02-46-560212
February 7, 2019

Page 2

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

Sincerely,



John Feeney, PG
Hydrogeologist
Remediation & Redevelopment Program

Cc: Mr. Tory Schultz, AECOM (electronic)
Mr. Curtis Hedman, DHS (electronic)
SER File

Attachments: Email with tabulated results and Laboratory Analytical Sheets
Sample Location Map

From: Schultz, Tory <Tory.Schultz@aecom.com>
Sent: Thursday, January 23, 2020 5:33 PM
To: Feeney, John M - DNR
Cc: Altenbach, Lanette
Subject: Former Quality Cleaners Off-site Vapor Intrusion Assessment (BRRTS #02-46-560212) - Second Sample Event Results (warming season)
Attachments: Figure 1 Sample Locations_R.pdf; 2019.11.19_SSDS OM&M Inspection Log.pdf; 1233.12th.Ave_LabRport.pdf; 1102Bridge_LabRport.pdf

Good evening John,

Here are the results of our VI testing in Grafton conducted during November 2019.

On November 18-19th, 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 sampled (SS-1, SS-2, SS-3, and SS-5). One indoor air and one outdoor ambient air sample was collected from 1233 12th Avenue. Samples were collected in laboratory supplied Summa canisters and analyzed by method TO-15 by Pace Analytical. 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 are summarized below and the laboratory report is attached. All ambient, indoor air, and sub-slab vapor samples were reported below VALs and VRSLs, respectively. Figure 1 shows locations of the vapor pins on each property along with the indoor and outdoor ambient air sample collection points.

Sample Methodology

Vapor pins (VP) were installed during initial site visit on July 23rd. Indoor air and outdoor ambient air samples were initiated on November 18th. On November 19th 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 (PMA) confirmed each vapor pin was properly installed and the sample train was constructed without leaks.

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

| Assessment Property | Sample ID | Cooling Season | Warming Season |
|-----------------------------------|-------------|-----------------------------------|---------------------------------|
| 1102 Bridge Street | SS-1 | 3.9 | 1.7 |
| | SS-5 | Vapor Pin installed at later date | 2.8 |
| 1233 12 th Avenue | SS-2 | 1,390 | 85.4 |
| | SS-3 | 169 | 491 |
| | OA-1 (AA-1) | ND | ND |
| | IA-1 (AI-1) | 1.1 | 2.5 |
| 1225-1227 12 th Avenue | SS-4 | 2.8 | Access Denied During this event |
| | AA-2 | ND | |
| | AI-2 | ND | |

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 cooling season sampling event.
- IA = indoor air 24-hour sample duration, labeled "AI" during cooling season sampling event.
- Sub-Slab vapor risk screening level 1,400 µg/m³

ND=Non Detect

Inspection of Sub-Slab Depressurization System (SSDS) at the Former Quality Cleaners

At the time of the inspection on November 19, 2019 the SSDS appeared to be functioning as indicated by negative vacuum pressure observed on the manometer tube (0.4-inches of water). One notable crack was recorded and repaired in the same room as the suction point. No other alterations or additions were noted during the inspection. A SSDS Operations, Maintenance, and Monitoring (OM&M) Inspection Form has been completed and attached for your review.

Deviations from the Sampling and Analysis Plan

1. At the request of WDNR, one addition sub-slab sample was collected from the ground level of the northeast corner of 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).

Third Sampling Event Schedule

As recommended by WDNR R&R800 Vapor Intrusion Guidance, sampling events are to occur during the heating and cooling seasons. Sub-slab sample SS-5 was collected during the warming season only, as this vapor pin location was chosen following the cooling season sampling event. A second sample from SS-5 and property located at 1225-1227 12th Avenue (access denied during November 2019) are recommended. Recent communication between with the property owner at 1225-1227 12th Avenue and WDNR have been successful at obtaining access for additional sampling. The third sampling event (final) for SS-1, SS-2 and SS-3 and paired indoor and outdoor air will be scheduled coincident with the second sampling event of SS-4 and paired indoor and outdoor air samples and SS-5 in the coming weeks, pending coordinated access from property owners.

Please let us know if you have comments.

Kind regards,

Tory Schultz
Senior Project Manager, Environment, Central Region
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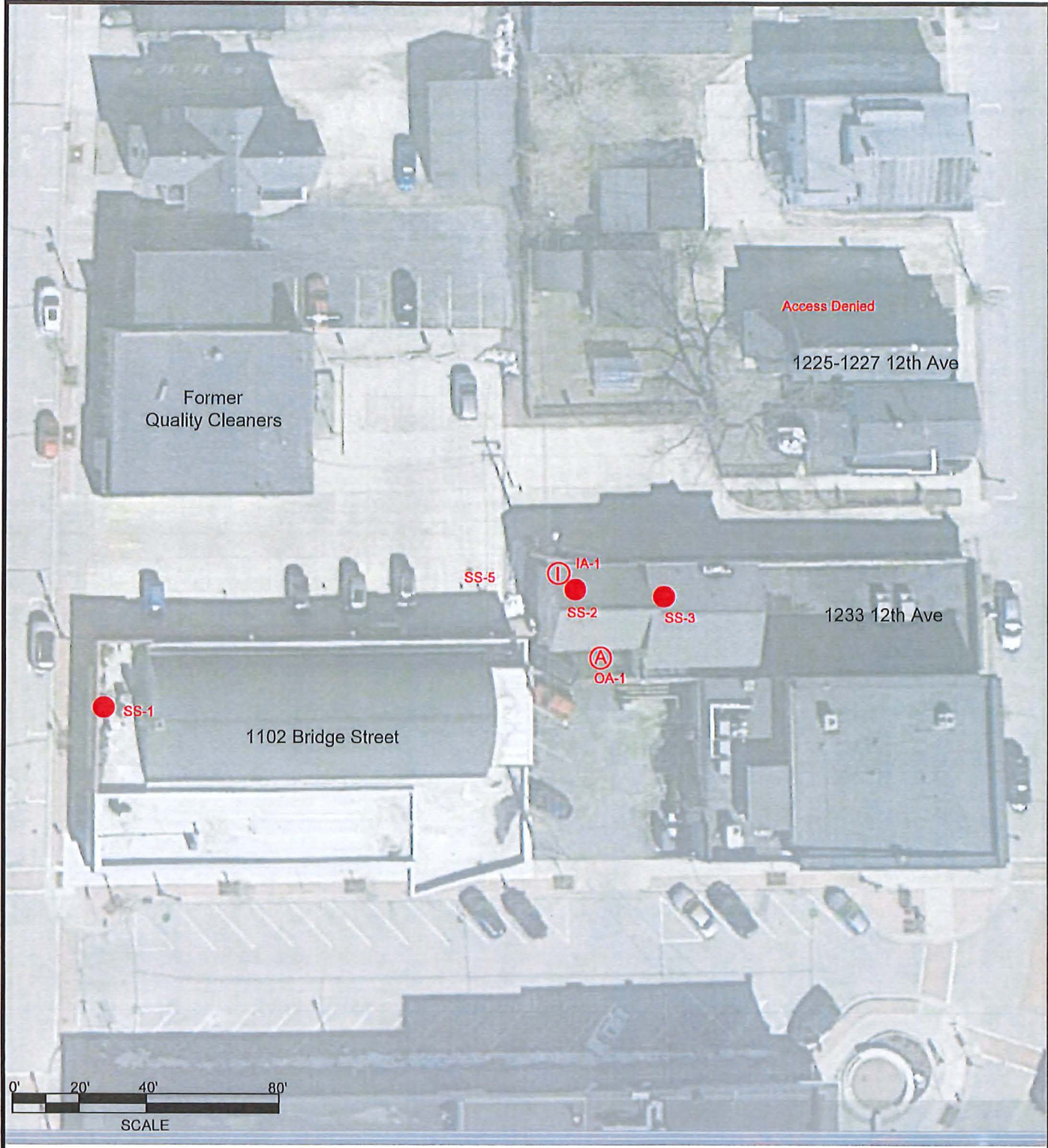


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Access Denied

1225-1227 12th Ave

Former Quality Cleaners

SS-5

IA-1

SS-2

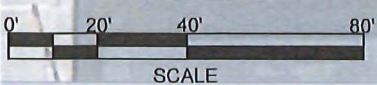
SS-3

1233 12th Ave

OA-1

SS-1

1102 Bridge Street



Legend:

- Subslab Vapor Probe and Identification Number
- Ⓜ Indoor Air (IA) Sample Location and Identification Number
- Ⓐ Outdoor Ambient (OA) 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: 11/19/2019 | Figure No. 1 |
|-----------------------------|------------------|---------------------|--------------|

File: \\usmwk16001\prodData\Projects\60602996\900_CAD_GIS\CAD\Grafton VI Assessment.dwg; USER: SCHULTZ, TORY; PLOTTED: August 13, 2019 - 2:40 PM



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

CERTIFICATIONS

Project: 60602996 Grafton VI-Revised Report
Pace Project No.: 10500212

Pace Analytical Services Minneapolis

A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Massachusetts DWP Certification #: via MN 027-053-137
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Certification #: via MN 027-053-137
Minnesota Petrolfund 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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 60602996 Grafton VI-Revised Report
Pace Project No.: 10500212

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 10500212001 | OA-1 | Air | 11/19/19 13:00 | 11/21/19 09:40 |
| 10500212002 | IA-1 | Air | 11/19/19 13:05 | 11/21/19 09:40 |
| 10500212003 | SS-2 | Air | 11/19/19 14:00 | 11/21/19 09:40 |
| 10500212004 | SS-3 | Air | 11/19/19 14:02 | 11/21/19 09:40 |

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
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SAMPLE ANALYTE COUNT

Project: 60602996 Grafton VI-Revised Report
Pace Project No.: 10500212

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------|----------|-------------------|------------|
| 10500212001 | OA-1 | TO-15 | NCK | 61 | PASI-M |
| 10500212002 | IA-1 | TO-15 | NCK | 61 | PASI-M |
| 10500212003 | SS-2 | TO-15 | NCK | 61 | PASI-M |
| 10500212004 | SS-3 | TO-15 | MJL, NCK | 61 | PASI-M |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: OA-1 Lab ID: 10500212001 Collected: 11/19/19 13:00 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|--------------------------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| Acetone | 14.4 | ug/m3 | 3.6 | 1.8 | 1.49 | | 11/27/19 00:25 | 67-64-1 | |
| Benzene | 0.37J | ug/m3 | 0.48 | 0.23 | 1.49 | | 11/27/19 00:25 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 11/27/19 00:25 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 11/27/19 00:25 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 11/27/19 00:25 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 11/27/19 00:25 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 11/27/19 00:25 | 106-99-0 | |
| 2-Butanone (MEK) | 0.99J | ug/m3 | 4.5 | 0.55 | 1.49 | | 11/27/19 00:25 | 78-93-3 | |
| Carbon disulfide | <0.33 | ug/m3 | 0.94 | 0.33 | 1.49 | | 11/27/19 00:25 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 11/27/19 00:25 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 11/27/19 00:25 | 108-90-7 | |
| Chloroethane | <0.39 | ug/m3 | 0.80 | 0.39 | 1.49 | | 11/27/19 00:25 | 75-00-3 | |
| Chloroform | <0.29 | ug/m3 | 0.74 | 0.29 | 1.49 | | 11/27/19 00:25 | 67-66-3 | |
| Chloromethane | 0.50J | ug/m3 | 0.63 | 0.23 | 1.49 | | 11/27/19 00:25 | 74-87-3 | |
| Cyclohexane | <0.53 | ug/m3 | 2.6 | 0.53 | 1.49 | | 11/27/19 00:25 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 11/27/19 00:25 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 11/27/19 00:25 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 11/27/19 00:25 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 11/27/19 00:25 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 11/27/19 00:25 | 106-46-7 | |
| Dichlorodifluoromethane | 2.3 | ug/m3 | 1.5 | 0.44 | 1.49 | | 11/27/19 00:25 | 75-71-8 | |
| 1,1-Dichloroethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 11/27/19 00:25 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 11/27/19 00:25 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/m3 | 1.2 | 0.41 | 1.49 | | 11/27/19 00:25 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.33 | ug/m3 | 1.2 | 0.33 | 1.49 | | 11/27/19 00:25 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 11/27/19 00:25 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 11/27/19 00:25 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 11/27/19 00:25 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 11/27/19 00:25 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 11/27/19 00:25 | 76-14-2 | |
| Ethanol | 37.0 | ug/m3 | 2.9 | 1.2 | 1.49 | | 11/27/19 00:25 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 11/27/19 00:25 | 141-78-6 | |
| Ethylbenzene | <0.45 | ug/m3 | 1.3 | 0.45 | 1.49 | | 11/27/19 00:25 | 100-41-4 | |
| 4-Ethyltoluene | <0.85 | ug/m3 | 3.7 | 0.85 | 1.49 | | 11/27/19 00:25 | 622-96-8 | |
| n-Heptane | <0.57 | ug/m3 | 1.2 | 0.57 | 1.49 | | 11/27/19 00:25 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 11/27/19 00:25 | 87-68-3 | |
| n-Hexane | 0.82J | ug/m3 | 1.1 | 0.46 | 1.49 | | 11/27/19 00:25 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 11/27/19 00:25 | 591-78-6 | |
| Methylene Chloride | 3.6J | ug/m3 | 5.3 | 1.8 | 1.49 | | 11/27/19 00:25 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 11/27/19 00:25 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 11/27/19 00:25 | 1634-04-4 | |
| Naphthalene | <2.0 | ug/m3 | 4.0 | 2.0 | 1.49 | | 11/27/19 00:25 | 91-20-3 | |
| 2-Propanol | 17.7 | ug/m3 | 3.7 | 1.0 | 1.49 | | 11/27/19 00:25 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 11/27/19 00:25 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 11/27/19 00:25 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 11/27/19 00:25 | 79-34-5 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: OA-1 Lab ID: 10500212001 Collected: 11/19/19 13:00 Received: 11/21/19 09:40 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 | | 11/27/19 00:25 | 127-18-4 | |
| Tetrahydrofuran | <0.39 | ug/m3 | 0.89 | 0.39 | 1.49 | | 11/27/19 00:25 | 109-99-9 | |
| Toluene | 1.1 | ug/m3 | 1.1 | 0.52 | 1.49 | | 11/27/19 00:25 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 11/27/19 00:25 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.46 | ug/m3 | 1.7 | 0.46 | 1.49 | | 11/27/19 00:25 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 11/27/19 00:25 | 79-00-5 | |
| Trichloroethene | <0.38 | ug/m3 | 0.81 | 0.38 | 1.49 | | 11/27/19 00:25 | 79-01-6 | |
| Trichlorofluoromethane | 1.2J | ug/m3 | 1.7 | 0.55 | 1.49 | | 11/27/19 00:25 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 11/27/19 00:25 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | <0.67 | ug/m3 | 1.5 | 0.67 | 1.49 | | 11/27/19 00:25 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.59 | ug/m3 | 1.5 | 0.59 | 1.49 | | 11/27/19 00:25 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 11/27/19 00:25 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 11/27/19 00:25 | 75-01-4 | |
| m&p-Xylene | <1.0 | ug/m3 | 2.6 | 1.0 | 1.49 | | 11/27/19 00:25 | 179601-23-1 | |
| o-Xylene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 11/27/19 00:25 | 95-47-6 | |

Sample: IA-1 Lab ID: 10500212002 Collected: 11/19/19 13:05 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 31.0 | ug/m3 | 3.9 | 1.9 | 1.61 | | 11/27/19 00:55 | 67-64-1 | |
| Benzene | 0.57 | ug/m3 | 0.52 | 0.25 | 1.61 | | 11/27/19 00:55 | 71-43-2 | |
| Benzyl chloride | <1.9 | ug/m3 | 4.2 | 1.9 | 1.61 | | 11/27/19 00:55 | 100-44-7 | |
| Bromodichloromethane | <0.59 | ug/m3 | 2.2 | 0.59 | 1.61 | | 11/27/19 00:55 | 75-27-4 | |
| Bromoform | <2.3 | ug/m3 | 8.5 | 2.3 | 1.61 | | 11/27/19 00:55 | 75-25-2 | |
| Bromomethane | <0.37 | ug/m3 | 1.3 | 0.37 | 1.61 | | 11/27/19 00:55 | 74-83-9 | |
| 1,3-Butadiene | <0.21 | ug/m3 | 0.72 | 0.21 | 1.61 | | 11/27/19 00:55 | 106-99-0 | |
| 2-Butanone (MEK) | 2.9J | ug/m3 | 4.8 | 0.59 | 1.61 | | 11/27/19 00:55 | 78-93-3 | |
| Carbon disulfide | <0.35 | ug/m3 | 1.0 | 0.35 | 1.61 | | 11/27/19 00:55 | 75-15-0 | |
| Carbon tetrachloride | <0.69 | ug/m3 | 2.1 | 0.69 | 1.61 | | 11/27/19 00:55 | 56-23-5 | |
| Chlorobenzene | <0.44 | ug/m3 | 1.5 | 0.44 | 1.61 | | 11/27/19 00:55 | 108-90-7 | |
| Chloroethane | <0.42 | ug/m3 | 0.86 | 0.42 | 1.61 | | 11/27/19 00:55 | 75-00-3 | |
| Chloroform | 0.37J | ug/m3 | 0.80 | 0.32 | 1.61 | | 11/27/19 00:55 | 67-66-3 | |
| Chloromethane | 0.97 | ug/m3 | 0.68 | 0.25 | 1.61 | | 11/27/19 00:55 | 74-87-3 | |
| Cyclohexane | 1.2J | ug/m3 | 2.8 | 0.57 | 1.61 | | 11/27/19 00:55 | 110-82-7 | |
| Dibromochloromethane | <1.2 | ug/m3 | 2.8 | 1.2 | 1.61 | | 11/27/19 00:55 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.59 | ug/m3 | 1.3 | 0.59 | 1.61 | | 11/27/19 00:55 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.80 | ug/m3 | 2.0 | 0.80 | 1.61 | | 11/27/19 00:55 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.94 | ug/m3 | 2.0 | 0.94 | 1.61 | | 11/27/19 00:55 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.6 | ug/m3 | 4.9 | 1.6 | 1.61 | | 11/27/19 00:55 | 106-46-7 | |
| Dichlorodifluoromethane | 2.5 | ug/m3 | 1.6 | 0.47 | 1.61 | | 11/27/19 00:55 | 75-71-8 | |
| 1,1-Dichloroethane | <0.36 | ug/m3 | 1.3 | 0.36 | 1.61 | | 11/27/19 00:55 | 75-34-3 | |
| 1,2-Dichloroethane | <0.24 | ug/m3 | 0.66 | 0.24 | 1.61 | | 11/27/19 00:55 | 107-06-2 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: IA-1 Lab ID: 10500212002 Collected: 11/19/19 13:05 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|---------|--------------------------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| 1,1-Dichloroethene | <0.44 | ug/m3 | 1.3 | 0.44 | 1.61 | | 11/27/19 00:55 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.35 | ug/m3 | 1.3 | 0.35 | 1.61 | | 11/27/19 00:55 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.46 | ug/m3 | 1.3 | 0.46 | 1.61 | | 11/27/19 00:55 | 156-60-5 | |
| 1,2-Dichloropropane | <0.37 | ug/m3 | 1.5 | 0.37 | 1.61 | | 11/27/19 00:55 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.49 | ug/m3 | 1.5 | 0.49 | 1.61 | | 11/27/19 00:55 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.71 | ug/m3 | 1.5 | 0.71 | 1.61 | | 11/27/19 00:55 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.70 | ug/m3 | 2.3 | 0.70 | 1.61 | | 11/27/19 00:55 | 76-14-2 | |
| Ethanol | 90.6 | ug/m3 | 3.1 | 1.3 | 1.61 | | 11/27/19 00:55 | 64-17-5 | |
| Ethyl acetate | 2.3 | ug/m3 | 1.2 | 0.31 | 1.61 | | 11/27/19 00:55 | 141-78-6 | |
| Ethylbenzene | 0.88J | ug/m3 | 1.4 | 0.49 | 1.61 | | 11/27/19 00:55 | 100-41-4 | |
| 4-Ethyltoluene | 1.0J | ug/m3 | 4.0 | 0.92 | 1.61 | | 11/27/19 00:55 | 622-96-8 | |
| n-Heptane | 1.0J | ug/m3 | 1.3 | 0.61 | 1.61 | | 11/27/19 00:55 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <3.2 | ug/m3 | 8.7 | 3.2 | 1.61 | | 11/27/19 00:55 | 87-68-3 | |
| n-Hexane | 2.3 | ug/m3 | 1.2 | 0.50 | 1.61 | | 11/27/19 00:55 | 110-54-3 | |
| 2-Hexanone | <1.2 | ug/m3 | 6.7 | 1.2 | 1.61 | | 11/27/19 00:55 | 591-78-6 | |
| Methylene Chloride | 10.9 | ug/m3 | 5.7 | 1.9 | 1.61 | | 11/27/19 00:55 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.83 | ug/m3 | 6.7 | 0.83 | 1.61 | | 11/27/19 00:55 | 108-10-1 | |
| Methyl-tert-butyl ether | <1.1 | ug/m3 | 5.9 | 1.1 | 1.61 | | 11/27/19 00:55 | 1634-04-4 | |
| Naphthalene | 2.6J | ug/m3 | 4.3 | 2.1 | 1.61 | | 11/27/19 00:55 | 91-20-3 | |
| 2-Propanol | 46.0 | ug/m3 | 4.0 | 1.1 | 1.61 | | 11/27/19 00:55 | 67-63-0 | |
| Propylene | <0.23 | ug/m3 | 0.56 | 0.23 | 1.61 | | 11/27/19 00:55 | 115-07-1 | |
| Styrene | 1.0J | ug/m3 | 1.4 | 0.55 | 1.61 | | 11/27/19 00:55 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.50 | ug/m3 | 1.1 | 0.50 | 1.61 | | 11/27/19 00:55 | 79-34-5 | |
| Tetrachloroethene | 2.5 | ug/m3 | 1.1 | 0.51 | 1.61 | | 11/27/19 00:55 | 127-18-4 | |
| Tetrahydrofuran | 0.97 | ug/m3 | 0.97 | 0.42 | 1.61 | | 11/27/19 00:55 | 109-99-9 | |
| Toluene | 5.3 | ug/m3 | 1.2 | 0.57 | 1.61 | | 11/27/19 00:55 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <6.0 | ug/m3 | 12.1 | 6.0 | 1.61 | | 11/27/19 00:55 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.50 | ug/m3 | 1.8 | 0.50 | 1.61 | | 11/27/19 00:55 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.39 | ug/m3 | 0.89 | 0.39 | 1.61 | | 11/27/19 00:55 | 79-00-5 | |
| Trichloroethene | <0.41 | ug/m3 | 0.88 | 0.41 | 1.61 | | 11/27/19 00:55 | 79-01-6 | |
| Trichlorofluoromethane | 7.4 | ug/m3 | 1.8 | 0.59 | 1.61 | | 11/27/19 00:55 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.91 | ug/m3 | 2.5 | 0.91 | 1.61 | | 11/27/19 00:55 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.2J | ug/m3 | 1.6 | 0.73 | 1.61 | | 11/27/19 00:55 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.64 | ug/m3 | 1.6 | 0.64 | 1.61 | | 11/27/19 00:55 | 108-67-8 | |
| Vinyl acetate | <0.43 | ug/m3 | 1.2 | 0.43 | 1.61 | | 11/27/19 00:55 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/m3 | 0.42 | 0.20 | 1.61 | | 11/27/19 00:55 | 75-01-4 | |
| m&p-Xylene | 3.0 | ug/m3 | 2.8 | 1.1 | 1.61 | | 11/27/19 00:55 | 179601-23-1 | |
| o-Xylene | 1.1J | ug/m3 | 1.4 | 0.55 | 1.61 | | 11/27/19 00:55 | 95-47-6 | |

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: SS-2 Lab ID: 10500212003 Collected: 11/19/19 14:00 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|-----------------------------|---------|--------------------------|------|------|------|----------|----------------|------------|------|
| TO15 MSV AIR | | Analytical Method: TO-15 | | | | | | | |
| Acetone | 7.0 | ug/m3 | 3.6 | 1.8 | 1.49 | | 11/27/19 03:50 | 67-64-1 | |
| Benzene | <0.23 | ug/m3 | 0.48 | 0.23 | 1.49 | | 11/27/19 03:50 | 71-43-2 | |
| Benzyl chloride | <1.8 | ug/m3 | 3.9 | 1.8 | 1.49 | | 11/27/19 03:50 | 100-44-7 | |
| Bromodichloromethane | <0.55 | ug/m3 | 2.0 | 0.55 | 1.49 | | 11/27/19 03:50 | 75-27-4 | |
| Bromoform | <2.1 | ug/m3 | 7.8 | 2.1 | 1.49 | | 11/27/19 03:50 | 75-25-2 | |
| Bromomethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 11/27/19 03:50 | 74-83-9 | |
| 1,3-Butadiene | <0.19 | ug/m3 | 0.67 | 0.19 | 1.49 | | 11/27/19 03:50 | 106-99-0 | |
| 2-Butanone (MEK) | 1.1J | ug/m3 | 4.5 | 0.55 | 1.49 | | 11/27/19 03:50 | 78-93-3 | |
| Carbon disulfide | <0.33 | ug/m3 | 0.94 | 0.33 | 1.49 | | 11/27/19 03:50 | 75-15-0 | |
| Carbon tetrachloride | <0.64 | ug/m3 | 1.9 | 0.64 | 1.49 | | 11/27/19 03:50 | 56-23-5 | |
| Chlorobenzene | <0.41 | ug/m3 | 1.4 | 0.41 | 1.49 | | 11/27/19 03:50 | 108-90-7 | |
| Chloroethane | <0.39 | ug/m3 | 0.80 | 0.39 | 1.49 | | 11/27/19 03:50 | 75-00-3 | |
| Chloroform | <0.29 | ug/m3 | 0.74 | 0.29 | 1.49 | | 11/27/19 03:50 | 67-66-3 | |
| Chloromethane | <0.23 | ug/m3 | 0.63 | 0.23 | 1.49 | | 11/27/19 03:50 | 74-87-3 | |
| Cyclohexane | <0.53 | ug/m3 | 2.6 | 0.53 | 1.49 | | 11/27/19 03:50 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.6 | 1.1 | 1.49 | | 11/27/19 03:50 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.55 | ug/m3 | 1.2 | 0.55 | 1.49 | | 11/27/19 03:50 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.74 | ug/m3 | 1.8 | 0.74 | 1.49 | | 11/27/19 03:50 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.87 | ug/m3 | 1.8 | 0.87 | 1.49 | | 11/27/19 03:50 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.5 | ug/m3 | 4.6 | 1.5 | 1.49 | | 11/27/19 03:50 | 106-46-7 | |
| Dichlorodifluoromethane | 2.4 | ug/m3 | 1.5 | 0.44 | 1.49 | | 11/27/19 03:50 | 75-71-8 | |
| 1,1-Dichloroethane | <0.34 | ug/m3 | 1.2 | 0.34 | 1.49 | | 11/27/19 03:50 | 75-34-3 | |
| 1,2-Dichloroethane | <0.22 | ug/m3 | 0.61 | 0.22 | 1.49 | | 11/27/19 03:50 | 107-06-2 | |
| 1,1-Dichloroethene | <0.41 | ug/m3 | 1.2 | 0.41 | 1.49 | | 11/27/19 03:50 | 75-35-4 | |
| cis-1,2-Dichloroethene | 0.49J | ug/m3 | 1.2 | 0.33 | 1.49 | | 11/27/19 03:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.49 | | 11/27/19 03:50 | 156-60-5 | |
| 1,2-Dichloropropane | <0.34 | ug/m3 | 1.4 | 0.34 | 1.49 | | 11/27/19 03:50 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.45 | ug/m3 | 1.4 | 0.45 | 1.49 | | 11/27/19 03:50 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.66 | ug/m3 | 1.4 | 0.66 | 1.49 | | 11/27/19 03:50 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.65 | ug/m3 | 2.1 | 0.65 | 1.49 | | 11/27/19 03:50 | 76-14-2 | |
| Ethanol | 5.1 | ug/m3 | 2.9 | 1.2 | 1.49 | | 11/27/19 03:50 | 64-17-5 | |
| Ethyl acetate | <0.28 | ug/m3 | 1.1 | 0.28 | 1.49 | | 11/27/19 03:50 | 141-78-6 | |
| Ethylbenzene | <0.45 | ug/m3 | 1.3 | 0.45 | 1.49 | | 11/27/19 03:50 | 100-41-4 | |
| 4-Ethyltoluene | 0.94J | ug/m3 | 3.7 | 0.85 | 1.49 | | 11/27/19 03:50 | 622-96-8 | |
| n-Heptane | <0.57 | ug/m3 | 1.2 | 0.57 | 1.49 | | 11/27/19 03:50 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <2.9 | ug/m3 | 8.1 | 2.9 | 1.49 | | 11/27/19 03:50 | 87-68-3 | |
| n-Hexane | 0.62J | ug/m3 | 1.1 | 0.46 | 1.49 | | 11/27/19 03:50 | 110-54-3 | |
| 2-Hexanone | <1.1 | ug/m3 | 6.2 | 1.1 | 1.49 | | 11/27/19 03:50 | 591-78-6 | |
| Methylene Chloride | 2.8J | ug/m3 | 5.3 | 1.8 | 1.49 | | 11/27/19 03:50 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.77 | ug/m3 | 6.2 | 0.77 | 1.49 | | 11/27/19 03:50 | 108-10-1 | |
| Methyl-tert-butyl ether | <0.99 | ug/m3 | 5.5 | 0.99 | 1.49 | | 11/27/19 03:50 | 1634-04-4 | |
| Naphthalene | 2.3J | ug/m3 | 4.0 | 2.0 | 1.49 | | 11/27/19 03:50 | 91-20-3 | |
| 2-Propanol | 1.7J | ug/m3 | 3.7 | 1.0 | 1.49 | | 11/27/19 03:50 | 67-63-0 | |
| Propylene | <0.21 | ug/m3 | 0.52 | 0.21 | 1.49 | | 11/27/19 03:50 | 115-07-1 | |
| Styrene | <0.51 | ug/m3 | 1.3 | 0.51 | 1.49 | | 11/27/19 03:50 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.46 | ug/m3 | 1.0 | 0.46 | 1.49 | | 11/27/19 03:50 | 79-34-5 | |

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: SS-2 Lab ID: 10500212003 Collected: 11/19/19 14:00 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Tetrachloroethene | 85.4 | ug/m3 | 1.0 | 0.47 | 1.49 | | 11/27/19 03:50 | 127-18-4 | |
| Tetrahydrofuran | 0.61J | ug/m3 | 0.89 | 0.39 | 1.49 | | 11/27/19 03:50 | 109-99-9 | |
| Toluene | 1.2 | ug/m3 | 1.1 | 0.52 | 1.49 | | 11/27/19 03:50 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.5 | ug/m3 | 11.2 | 5.5 | 1.49 | | 11/27/19 03:50 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.46 | ug/m3 | 1.7 | 0.46 | 1.49 | | 11/27/19 03:50 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.36 | ug/m3 | 0.83 | 0.36 | 1.49 | | 11/27/19 03:50 | 79-00-5 | |
| Trichloroethene | <0.38 | ug/m3 | 0.81 | 0.38 | 1.49 | | 11/27/19 03:50 | 79-01-6 | |
| Trichlorofluoromethane | 1.4J | ug/m3 | 1.7 | 0.55 | 1.49 | | 11/27/19 03:50 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.84 | ug/m3 | 2.3 | 0.84 | 1.49 | | 11/27/19 03:50 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.3J | ug/m3 | 1.5 | 0.67 | 1.49 | | 11/27/19 03:50 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | <0.59 | ug/m3 | 1.5 | 0.59 | 1.49 | | 11/27/19 03:50 | 108-67-8 | |
| Vinyl acetate | <0.40 | ug/m3 | 1.1 | 0.40 | 1.49 | | 11/27/19 03:50 | 108-05-4 | |
| Vinyl chloride | <0.19 | ug/m3 | 0.39 | 0.19 | 1.49 | | 11/27/19 03:50 | 75-01-4 | |
| m&p-Xylene | 1.7J | ug/m3 | 2.6 | 1.0 | 1.49 | | 11/27/19 03:50 | 179601-23-1 | |
| o-Xylene | 0.73J | ug/m3 | 1.3 | 0.51 | 1.49 | | 11/27/19 03:50 | 95-47-6 | |

Sample: SS-3 Lab ID: 10500212004 Collected: 11/19/19 14:02 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|------|------|------|----------|----------------|----------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| Acetone | 3.5J | ug/m3 | 3.7 | 1.9 | 1.55 | | 11/27/19 02:23 | 67-64-1 | |
| Benzene | <0.24 | ug/m3 | 0.50 | 0.24 | 1.55 | | 11/27/19 02:23 | 71-43-2 | |
| Benzyl chloride | <1.9 | ug/m3 | 4.1 | 1.9 | 1.55 | | 11/27/19 02:23 | 100-44-7 | |
| Bromodichloromethane | <0.57 | ug/m3 | 2.1 | 0.57 | 1.55 | | 11/27/19 02:23 | 75-27-4 | |
| Bromoform | <2.2 | ug/m3 | 8.1 | 2.2 | 1.55 | | 11/27/19 02:23 | 75-25-2 | |
| Bromomethane | <0.35 | ug/m3 | 1.2 | 0.35 | 1.55 | | 11/27/19 02:23 | 74-83-9 | |
| 1,3-Butadiene | <0.20 | ug/m3 | 0.70 | 0.20 | 1.55 | | 11/27/19 02:23 | 106-99-0 | |
| 2-Butanone (MEK) | <0.57 | ug/m3 | 4.6 | 0.57 | 1.55 | | 11/27/19 02:23 | 78-93-3 | |
| Carbon disulfide | <0.34 | ug/m3 | 0.98 | 0.34 | 1.55 | | 11/27/19 02:23 | 75-15-0 | |
| Carbon tetrachloride | <0.66 | ug/m3 | 2.0 | 0.66 | 1.55 | | 11/27/19 02:23 | 56-23-5 | |
| Chlorobenzene | <0.43 | ug/m3 | 1.5 | 0.43 | 1.55 | | 11/27/19 02:23 | 108-90-7 | |
| Chloroethane | <0.40 | ug/m3 | 0.83 | 0.40 | 1.55 | | 11/27/19 02:23 | 75-00-3 | |
| Chloroform | <0.30 | ug/m3 | 0.77 | 0.30 | 1.55 | | 11/27/19 02:23 | 67-66-3 | |
| Chloromethane | <0.24 | ug/m3 | 0.65 | 0.24 | 1.55 | | 11/27/19 02:23 | 74-87-3 | |
| Cyclohexane | <0.55 | ug/m3 | 2.7 | 0.55 | 1.55 | | 11/27/19 02:23 | 110-82-7 | |
| Dibromochloromethane | <1.1 | ug/m3 | 2.7 | 1.1 | 1.55 | | 11/27/19 02:23 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | <0.57 | ug/m3 | 1.2 | 0.57 | 1.55 | | 11/27/19 02:23 | 106-93-4 | |
| 1,2-Dichlorobenzene | <0.77 | ug/m3 | 1.9 | 0.77 | 1.55 | | 11/27/19 02:23 | 95-50-1 | |
| 1,3-Dichlorobenzene | <0.90 | ug/m3 | 1.9 | 0.90 | 1.55 | | 11/27/19 02:23 | 541-73-1 | |
| 1,4-Dichlorobenzene | <1.6 | ug/m3 | 4.7 | 1.6 | 1.55 | | 11/27/19 02:23 | 106-46-7 | |
| Dichlorodifluoromethane | 2.3 | ug/m3 | 1.6 | 0.45 | 1.55 | | 11/27/19 02:23 | 75-71-8 | |
| 1,1-Dichloroethane | <0.35 | ug/m3 | 1.3 | 0.35 | 1.55 | | 11/27/19 02:23 | 75-34-3 | |
| 1,2-Dichloroethane | <0.23 | ug/m3 | 0.64 | 0.23 | 1.55 | | 11/27/19 02:23 | 107-06-2 | |

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ANALYTICAL RESULTS

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

Sample: SS-3 Lab ID: 10500212004 Collected: 11/19/19 14:02 Received: 11/21/19 09:40 Matrix: Air

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---------------------------------------|---------|-------|------|------|------|----------|----------------|-------------|------|
| TO15 MSV AIR Analytical Method: TO-15 | | | | | | | | | |
| 1,1-Dichloroethene | <0.42 | ug/m3 | 1.2 | 0.42 | 1.55 | | 11/27/19 02:23 | 75-35-4 | |
| cis-1,2-Dichloroethene | <0.34 | ug/m3 | 1.2 | 0.34 | 1.55 | | 11/27/19 02:23 | 156-59-2 | |
| trans-1,2-Dichloroethene | <0.44 | ug/m3 | 1.2 | 0.44 | 1.55 | | 11/27/19 02:23 | 156-60-5 | |
| 1,2-Dichloropropane | <0.36 | ug/m3 | 1.5 | 0.36 | 1.55 | | 11/27/19 02:23 | 78-87-5 | |
| cis-1,3-Dichloropropene | <0.47 | ug/m3 | 1.4 | 0.47 | 1.55 | | 11/27/19 02:23 | 10061-01-5 | |
| trans-1,3-Dichloropropene | <0.68 | ug/m3 | 1.4 | 0.68 | 1.55 | | 11/27/19 02:23 | 10061-02-6 | |
| Dichlorotetrafluoroethane | <0.68 | ug/m3 | 2.2 | 0.68 | 1.55 | | 11/27/19 02:23 | 76-14-2 | |
| Ethanol | 7.7 | ug/m3 | 3.0 | 1.3 | 1.55 | | 11/27/19 02:23 | 64-17-5 | |
| Ethyl acetate | <0.29 | ug/m3 | 1.1 | 0.29 | 1.55 | | 11/27/19 02:23 | 141-78-6 | |
| Ethylbenzene | 0.53J | ug/m3 | 1.4 | 0.47 | 1.55 | | 11/27/19 02:23 | 100-41-4 | |
| 4-Ethyltoluene | 0.99J | ug/m3 | 3.9 | 0.88 | 1.55 | | 11/27/19 02:23 | 622-96-8 | |
| n-Heptane | <0.59 | ug/m3 | 1.3 | 0.59 | 1.55 | | 11/27/19 02:23 | 142-82-5 | |
| Hexachloro-1,3-butadiene | <3.1 | ug/m3 | 8.4 | 3.1 | 1.55 | | 11/27/19 02:23 | 87-68-3 | |
| n-Hexane | 0.62J | ug/m3 | 1.1 | 0.48 | 1.55 | | 11/27/19 02:23 | 110-54-3 | |
| 2-Hexanone | <1.2 | ug/m3 | 6.4 | 1.2 | 1.55 | | 11/27/19 02:23 | 591-78-6 | |
| Methylene Chloride | 3.8J | ug/m3 | 5.5 | 1.9 | 1.55 | | 11/27/19 02:23 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | <0.80 | ug/m3 | 6.4 | 0.80 | 1.55 | | 11/27/19 02:23 | 108-10-1 | |
| Methyl-tert-butyl ether | <1.0 | ug/m3 | 5.7 | 1.0 | 1.55 | | 11/27/19 02:23 | 1634-04-4 | |
| Naphthalene | 2.6J | ug/m3 | 4.1 | 2.0 | 1.55 | | 11/27/19 02:23 | 91-20-3 | |
| 2-Propanol | 2.1J | ug/m3 | 3.9 | 1.1 | 1.55 | | 11/27/19 02:23 | 67-63-0 | |
| Propylene | <0.22 | ug/m3 | 0.54 | 0.22 | 1.55 | | 11/27/19 02:23 | 115-07-1 | |
| Styrene | 1.1J | ug/m3 | 1.3 | 0.53 | 1.55 | | 11/27/19 02:23 | 100-42-5 | |
| 1,1,2,2-Tetrachloroethane | <0.48 | ug/m3 | 1.1 | 0.48 | 1.55 | | 11/27/19 02:23 | 79-34-5 | |
| Tetrachloroethene | 491 | ug/m3 | 21.4 | 9.7 | 31 | | 11/28/19 02:58 | 127-18-4 | |
| Tetrahydrofuran | 0.63J | ug/m3 | 0.93 | 0.40 | 1.55 | | 11/27/19 02:23 | 109-99-9 | |
| Toluene | 1.3 | ug/m3 | 1.2 | 0.54 | 1.55 | | 11/27/19 02:23 | 108-88-3 | |
| 1,2,4-Trichlorobenzene | <5.8 | ug/m3 | 11.7 | 5.8 | 1.55 | | 11/27/19 02:23 | 120-82-1 | |
| 1,1,1-Trichloroethane | <0.48 | ug/m3 | 1.7 | 0.48 | 1.55 | | 11/27/19 02:23 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.38 | ug/m3 | 0.86 | 0.38 | 1.55 | | 11/27/19 02:23 | 79-00-5 | |
| Trichloroethene | <0.39 | ug/m3 | 0.85 | 0.39 | 1.55 | | 11/27/19 02:23 | 79-01-6 | |
| Trichlorofluoromethane | 3.5 | ug/m3 | 1.8 | 0.57 | 1.55 | | 11/27/19 02:23 | 75-69-4 | |
| 1,1,2-Trichlorotrifluoroethane | <0.87 | ug/m3 | 2.4 | 0.87 | 1.55 | | 11/27/19 02:23 | 76-13-1 | |
| 1,2,4-Trimethylbenzene | 1.9 | ug/m3 | 1.5 | 0.70 | 1.55 | | 11/27/19 02:23 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | 0.71J | ug/m3 | 1.5 | 0.62 | 1.55 | | 11/27/19 02:23 | 108-67-8 | |
| Vinyl acetate | <0.42 | ug/m3 | 1.1 | 0.42 | 1.55 | | 11/27/19 02:23 | 108-05-4 | |
| Vinyl chloride | <0.20 | ug/m3 | 0.40 | 0.20 | 1.55 | | 11/27/19 02:23 | 75-01-4 | |
| m&p-Xylene | 2.3J | ug/m3 | 2.7 | 1.1 | 1.55 | | 11/27/19 02:23 | 179601-23-1 | |
| o-Xylene | 1.1J | ug/m3 | 1.4 | 0.53 | 1.55 | | 11/27/19 02:23 | 95-47-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

QC Batch: 647211 Analysis Method: TO-15
 QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
 Associated Lab Samples: 10500212001, 10500212002, 10500212003, 10500212004

METHOD BLANK: 3482836 Matrix: Air
 Associated Lab Samples: 10500212001, 10500212002, 10500212003, 10500212004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|----------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | <0.31 | 1.1 | 11/26/19 15:24 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.31 | 0.70 | 11/26/19 15:24 | |
| 1,1,2-Trichloroethane | ug/m3 | <0.24 | 0.56 | 11/26/19 15:24 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.56 | 1.6 | 11/26/19 15:24 | |
| 1,1-Dichloroethane | ug/m3 | <0.22 | 0.82 | 11/26/19 15:24 | |
| 1,1-Dichloroethene | ug/m3 | <0.27 | 0.81 | 11/26/19 15:24 | |
| 1,2,4-Trichlorobenzene | ug/m3 | <3.7 | 7.5 | 11/26/19 15:24 | |
| 1,2,4-Trimethylbenzene | ug/m3 | <0.45 | 1.0 | 11/26/19 15:24 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.37 | 0.78 | 11/26/19 15:24 | |
| 1,2-Dichlorobenzene | ug/m3 | <0.50 | 1.2 | 11/26/19 15:24 | |
| 1,2-Dichloroethane | ug/m3 | <0.15 | 0.41 | 11/26/19 15:24 | |
| 1,2-Dichloropropane | ug/m3 | <0.23 | 0.94 | 11/26/19 15:24 | |
| 1,3,5-Trimethylbenzene | ug/m3 | <0.40 | 1.0 | 11/26/19 15:24 | |
| 1,3-Butadiene | ug/m3 | <0.13 | 0.45 | 11/26/19 15:24 | |
| 1,3-Dichlorobenzene | ug/m3 | <0.58 | 1.2 | 11/26/19 15:24 | |
| 1,4-Dichlorobenzene | ug/m3 | <1.0 | 3.1 | 11/26/19 15:24 | |
| 2-Butanone (MEK) | ug/m3 | <0.37 | 3.0 | 11/26/19 15:24 | |
| 2-Hexanone | ug/m3 | <0.74 | 4.2 | 11/26/19 15:24 | |
| 2-Propanol | ug/m3 | <0.70 | 2.5 | 11/26/19 15:24 | |
| 4-Ethyltoluene | ug/m3 | <0.57 | 2.5 | 11/26/19 15:24 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | <0.52 | 4.2 | 11/26/19 15:24 | |
| Acetone | ug/m3 | <1.2 | 2.4 | 11/26/19 15:24 | |
| Benzene | ug/m3 | <0.15 | 0.32 | 11/26/19 15:24 | |
| Benzyl chloride | ug/m3 | <1.2 | 2.6 | 11/26/19 15:24 | |
| Bromodichloromethane | ug/m3 | <0.37 | 1.4 | 11/26/19 15:24 | |
| Bromoform | ug/m3 | <1.4 | 5.2 | 11/26/19 15:24 | |
| Bromomethane | ug/m3 | <0.23 | 0.79 | 11/26/19 15:24 | |
| Carbon disulfide | ug/m3 | <0.22 | 0.63 | 11/26/19 15:24 | |
| Carbon tetrachloride | ug/m3 | <0.43 | 1.3 | 11/26/19 15:24 | |
| Chlorobenzene | ug/m3 | <0.28 | 0.94 | 11/26/19 15:24 | |
| Chloroethane | ug/m3 | <0.26 | 0.54 | 11/26/19 15:24 | |
| Chloroform | ug/m3 | <0.20 | 0.50 | 11/26/19 15:24 | |
| Chloromethane | ug/m3 | <0.16 | 0.42 | 11/26/19 15:24 | |
| cis-1,2-Dichloroethene | ug/m3 | <0.22 | 0.81 | 11/26/19 15:24 | |
| cis-1,3-Dichloropropene | ug/m3 | <0.30 | 0.92 | 11/26/19 15:24 | |
| Cyclohexane | ug/m3 | <0.35 | 1.8 | 11/26/19 15:24 | |
| Dibromochloromethane | ug/m3 | <0.72 | 1.7 | 11/26/19 15:24 | |
| Dichlorodifluoromethane | ug/m3 | <0.29 | 1.0 | 11/26/19 15:24 | |
| Dichlorotetrafluoroethane | ug/m3 | <0.44 | 1.4 | 11/26/19 15:24 | |
| Ethanol | ug/m3 | <0.81 | 1.9 | 11/26/19 15:24 | |
| Ethyl acetate | ug/m3 | <0.19 | 0.73 | 11/26/19 15:24 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

METHOD BLANK: 3482836 Matrix: Air
 Associated Lab Samples: 10500212001, 10500212002, 10500212003, 10500212004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Ethylbenzene | ug/m3 | <0.30 | 0.88 | 11/26/19 15:24 | |
| Hexachloro-1,3-butadiene | ug/m3 | <2.0 | 5.4 | 11/26/19 15:24 | |
| m&p-Xylene | ug/m3 | <0.70 | 1.8 | 11/26/19 15:24 | |
| Methyl-tert-butyl ether | ug/m3 | <0.66 | 3.7 | 11/26/19 15:24 | |
| Methylene Chloride | ug/m3 | <1.2 | 3.5 | 11/26/19 15:24 | |
| n-Heptane | ug/m3 | <0.38 | 0.83 | 11/26/19 15:24 | |
| n-Hexane | ug/m3 | <0.31 | 0.72 | 11/26/19 15:24 | |
| Naphthalene | ug/m3 | 1.5J | 2.7 | 11/26/19 15:24 | |
| o-Xylene | ug/m3 | <0.34 | 0.88 | 11/26/19 15:24 | |
| Propylene | ug/m3 | <0.14 | 0.35 | 11/26/19 15:24 | |
| Styrene | ug/m3 | <0.34 | 0.87 | 11/26/19 15:24 | |
| Tetrachloroethene | ug/m3 | <0.31 | 0.69 | 11/26/19 15:24 | |
| Tetrahydrofuran | ug/m3 | <0.26 | 0.60 | 11/26/19 15:24 | |
| Toluene | ug/m3 | <0.35 | 0.77 | 11/26/19 15:24 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.28 | 0.81 | 11/26/19 15:24 | |
| trans-1,3-Dichloropropene | ug/m3 | <0.44 | 0.92 | 11/26/19 15:24 | |
| Trichloroethene | ug/m3 | <0.25 | 0.55 | 11/26/19 15:24 | |
| Trichlorofluoromethane | ug/m3 | <0.37 | 1.1 | 11/26/19 15:24 | |
| Vinyl acetate | ug/m3 | <0.27 | 0.72 | 11/26/19 15:24 | |
| Vinyl chloride | ug/m3 | <0.13 | 0.26 | 11/26/19 15:24 | |

LABORATORY CONTROL SAMPLE: 3482837

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | 56.6 | 50.7 | 90 | 70-130 | |
| 1,1,1,2-Tetrachloroethane | ug/m3 | 69.8 | 65.6 | 94 | 70-132 | |
| 1,1,2-Trichloroethane | ug/m3 | 58.2 | 52.4 | 90 | 70-130 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | 84.9 | 72.8 | 86 | 70-130 | |
| 1,1-Dichloroethane | ug/m3 | 42.4 | 39.3 | 93 | 70-130 | |
| 1,1-Dichloroethene | ug/m3 | 43.5 | 36.5 | 84 | 70-130 | |
| 1,2,4-Trichlorobenzene | ug/m3 | 74.7 | 54.3 | 73 | 56-130 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 53 | 45.7 | 86 | 70-134 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | 83.6 | 72.4 | 87 | 70-130 | |
| 1,2-Dichlorobenzene | ug/m3 | 59.9 | 51.8 | 86 | 70-132 | |
| 1,2-Dichloroethane | ug/m3 | 42.8 | 39.3 | 92 | 70-130 | |
| 1,2-Dichloropropane | ug/m3 | 48.4 | 44.0 | 91 | 70-130 | |
| 1,3,5-Trimethylbenzene | ug/m3 | 53.5 | 49.7 | 93 | 70-132 | |
| 1,3-Butadiene | ug/m3 | 22.5 | 18.6 | 82 | 65-130 | |
| 1,3-Dichlorobenzene | ug/m3 | 65.4 | 50.6 | 77 | 70-137 | |
| 1,4-Dichlorobenzene | ug/m3 | 65.4 | 46.3 | 71 | 70-134 | |
| 2-Butanone (MEK) | ug/m3 | 32.4 | 26.9 | 83 | 70-130 | |
| 2-Hexanone | ug/m3 | 42.9 | 37.4 | 87 | 70-135 | |
| 2-Propanol | ug/m3 | 26.5 | 24.7 | 93 | 68-130 | |
| 4-Ethyltoluene | ug/m3 | 52 | 43.6 | 84 | 70-138 | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

LABORATORY CONTROL SAMPLE: 3482837

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------------|-------|-------------|------------|-----------|--------------|------------|
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | 42 | 40.1 | 95 | 70-131 | |
| Acetone | ug/m3 | 26.6 | 19.9 | 75 | 67-130 | |
| Benzene | ug/m3 | 34.4 | 29.7 | 86 | 70-130 | |
| Benzyl chloride | ug/m3 | 56.3 | 41.8 | 74 | 70-130 | |
| Bromodichloromethane | ug/m3 | 69.5 | 64.0 | 92 | 70-130 | |
| Bromoform | ug/m3 | 97.7 | 282 | 289 | 70-132 | L3,SS |
| Bromomethane | ug/m3 | 40.6 | 34.2 | 84 | 69-130 | |
| Carbon disulfide | ug/m3 | 32.9 | 30.2 | 92 | 56-137 | |
| Carbon tetrachloride | ug/m3 | 65.9 | 62.9 | 96 | 66-131 | |
| Chlorobenzene | ug/m3 | 49.6 | 42.9 | 86 | 70-130 | |
| Chloroethane | ug/m3 | 26.8 | 24.8 | 92 | 70-130 | |
| Chloroform | ug/m3 | 52.6 | 45.1 | 86 | 70-130 | |
| Chloromethane | ug/m3 | 22.2 | 18.4 | 83 | 66-130 | |
| cis-1,2-Dichloroethene | ug/m3 | 41.9 | 36.8 | 88 | 70-130 | |
| cis-1,3-Dichloropropene | ug/m3 | 48 | 42.2 | 88 | 70-133 | |
| Cyclohexane | ug/m3 | 35.3 | 33.3 | 94 | 68-132 | |
| Dibromochloromethane | ug/m3 | 90 | 92.7 | 103 | 70-130 | |
| Dichlorodifluoromethane | ug/m3 | 52.8 | 45.0 | 85 | 70-130 | |
| Dichlorotetrafluoroethane | ug/m3 | 74.6 | 62.8 | 84 | 70-130 | |
| Ethanol | ug/m3 | 21.1 | 16.8 | 80 | 68-133 | |
| Ethyl acetate | ug/m3 | 38.8 | 34.0 | 88 | 69-130 | |
| Ethylbenzene | ug/m3 | 45.5 | 41.7 | 92 | 67-131 | |
| Hexachloro-1,3-butadiene | ug/m3 | 108 | 93.1 | 86 | 66-137 | |
| m&p-Xylene | ug/m3 | 45.9 | 45.2 | 99 | 70-132 | |
| Methyl-tert-butyl ether | ug/m3 | 37.4 | 34.2 | 91 | 70-130 | |
| Methylene Chloride | ug/m3 | 38.1 | 33.8 | 89 | 65-130 | |
| n-Heptane | ug/m3 | 43.7 | 37.0 | 84 | 65-130 | |
| n-Hexane | ug/m3 | 37.6 | 31.3 | 83 | 66-130 | |
| Naphthalene | ug/m3 | 52.7 | 38.5 | 73 | 56-130 | |
| o-Xylene | ug/m3 | 44.1 | 41.9 | 95 | 70-130 | |
| Propylene | ug/m3 | 19.2 | 15.7 | 82 | 67-130 | |
| Styrene | ug/m3 | 44.2 | 38.1 | 86 | 69-136 | |
| Tetrachloroethene | ug/m3 | 70.3 | 62.3 | 89 | 70-130 | |
| Tetrahydrofuran | ug/m3 | 30.3 | 30.0 | 99 | 68-131 | |
| Toluene | ug/m3 | 39.4 | 34.7 | 88 | 70-130 | |
| trans-1,2-Dichloroethene | ug/m3 | 41.5 | 37.6 | 91 | 70-130 | |
| trans-1,3-Dichloropropene | ug/m3 | 44.8 | 45.8 | 102 | 70-134 | |
| Trichloroethene | ug/m3 | 56.3 | 50.4 | 90 | 70-130 | |
| Trichlorofluoromethane | ug/m3 | 58.8 | 50.8 | 86 | 65-130 | |
| Vinyl acetate | ug/m3 | 35.1 | 32.7 | 93 | 61-133 | |
| Vinyl chloride | ug/m3 | 28.1 | 23.0 | 82 | 70-130 | |

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

SAMPLE DUPLICATE: 3483874

| Parameter | Units | 10500212002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | <0.50 | <0.50 | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.50 | <0.50 | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | <0.39 | <0.39 | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.91 | <0.91 | | 25 | |
| 1,1-Dichloroethane | ug/m3 | <0.36 | <0.36 | | 25 | |
| 1,1-Dichloroethene | ug/m3 | <0.44 | <0.44 | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | <6.0 | <6.0 | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 1.2J | 1.2J | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.59 | <0.59 | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | <0.80 | <0.80 | | 25 | |
| 1,2-Dichloroethane | ug/m3 | <0.24 | <0.24 | | 25 | |
| 1,2-Dichloropropane | ug/m3 | <0.37 | <0.37 | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | <0.64 | <0.64 | | 25 | |
| 1,3-Butadiene | ug/m3 | <0.21 | <0.21 | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | <0.94 | <0.94 | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | <1.6 | <1.6 | | 25 | |
| 2-Butanone (MEK) | ug/m3 | 2.9J | 2.8J | | 25 | |
| 2-Hexanone | ug/m3 | <1.2 | <1.2 | | 25 | |
| 2-Propanol | ug/m3 | 46.0 | 45.2 | 2 | 25 | |
| 4-Ethyltoluene | ug/m3 | 1.0J | 1.0J | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | <0.83 | <0.83 | | 25 | |
| Acetone | ug/m3 | 31.0 | 30.5 | 2 | 25 | |
| Benzene | ug/m3 | 0.57 | 0.56 | 3 | 25 | |
| Benzyl chloride | ug/m3 | <1.9 | <1.9 | | 25 | |
| Bromodichloromethane | ug/m3 | <0.59 | <0.59 | | 25 | |
| Bromoform | ug/m3 | <2.3 | <2.3 | | 25 | |
| Bromomethane | ug/m3 | <0.37 | <0.37 | | 25 | |
| Carbon disulfide | ug/m3 | <0.35 | <0.35 | | 25 | |
| Carbon tetrachloride | ug/m3 | <0.69 | <0.69 | | 25 | |
| Chlorobenzene | ug/m3 | <0.44 | <0.44 | | 25 | |
| Chloroethane | ug/m3 | <0.42 | <0.42 | | 25 | |
| Chloroform | ug/m3 | 0.37J | <0.32 | | 25 | |
| Chloromethane | ug/m3 | 0.97 | 0.84 | 15 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | <0.35 | <0.35 | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | <0.49 | <0.49 | | 25 | |
| Cyclohexane | ug/m3 | 1.2J | 1.2J | | 25 | |
| Dibromochloromethane | ug/m3 | <1.2 | <1.2 | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.5 | 2.5 | 2 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | <0.70 | <0.70 | | 25 | |
| Ethanol | ug/m3 | 90.6 | 87.2 | 4 | 25 | |
| Ethyl acetate | ug/m3 | 2.3 | 2.2 | 1 | 25 | |
| Ethylbenzene | ug/m3 | 0.88J | 0.76J | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | <3.2 | <3.2 | | 25 | |
| m&p-Xylene | ug/m3 | 3.0 | 2.8J | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | <1.1 | <1.1 | | 25 | |
| Methylene Chloride | ug/m3 | 10.9 | 10.7 | 2 | 25 | |
| n-Heptane | ug/m3 | 1.0J | 0.88J | | 25 | |

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

SAMPLE DUPLICATE: 3483874

| Parameter | Units | 10500212002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| n-Hexane | ug/m3 | 2.3 | 2.4 | 5 | 25 | |
| Naphthalene | ug/m3 | 2.6J | 2.7J | | 25 | |
| o-Xylene | ug/m3 | 1.1J | 1.1J | | 25 | |
| Propylene | ug/m3 | <0.23 | <0.23 | | 25 | |
| Styrene | ug/m3 | 1.0J | 1.0J | | 25 | |
| Tetrachloroethene | ug/m3 | 2.5 | 2.4 | 4 | 25 | |
| Tetrahydrofuran | ug/m3 | 0.97 | 0.97 | 0 | 25 | |
| Toluene | ug/m3 | 5.3 | 5.3 | 0 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.46 | <0.46 | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | <0.71 | <0.71 | | 25 | |
| Trichloroethene | ug/m3 | <0.41 | <0.41 | | 25 | |
| Trichlorofluoromethane | ug/m3 | 7.4 | 7.4 | 0 | 25 | |
| Vinyl acetate | ug/m3 | <0.43 | <0.43 | | 25 | |
| Vinyl chloride | ug/m3 | <0.20 | <0.20 | | 25 | |

SAMPLE DUPLICATE: 3483875

| Parameter | Units | 10500780001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------------|-------|-----------------------|---------------|-----|------------|------------|
| 1,1,1-Trichloroethane | ug/m3 | <0.47 | <0.47 | | 25 | |
| 1,1,2,2-Tetrachloroethane | ug/m3 | <0.47 | <0.47 | | 25 | |
| 1,1,2-Trichloroethane | ug/m3 | <0.37 | <0.37 | | 25 | |
| 1,1,2-Trichlorotrifluoroethane | ug/m3 | <0.86 | <0.86 | | 25 | |
| 1,1-Dichloroethane | ug/m3 | <0.34 | <0.34 | | 25 | |
| 1,1-Dichloroethene | ug/m3 | <0.42 | <0.42 | | 25 | |
| 1,2,4-Trichlorobenzene | ug/m3 | <5.7 | <5.7 | | 25 | |
| 1,2,4-Trimethylbenzene | ug/m3 | 1.3J | 1.2J | | 25 | |
| 1,2-Dibromoethane (EDB) | ug/m3 | <0.56 | <0.56 | | 25 | |
| 1,2-Dichlorobenzene | ug/m3 | <0.76 | <0.76 | | 25 | |
| 1,2-Dichloroethane | ug/m3 | 0.33J | <0.23 | | 25 | |
| 1,2-Dichloropropane | ug/m3 | <0.35 | <0.35 | | 25 | |
| 1,3,5-Trimethylbenzene | ug/m3 | <0.61 | <0.61 | | 25 | |
| 1,3-Butadiene | ug/m3 | <0.19 | <0.19 | | 25 | |
| 1,3-Dichlorobenzene | ug/m3 | <0.88 | <0.88 | | 25 | |
| 1,4-Dichlorobenzene | ug/m3 | <1.5 | <1.5 | | 25 | |
| 2-Butanone (MEK) | ug/m3 | <0.56 | <0.56 | | 25 | |
| 2-Hexanone | ug/m3 | <1.1 | <1.1 | | 25 | |
| 2-Propanol | ug/m3 | 6.2 | 6.0 | 4 | 25 | |
| 4-Ethyltoluene | ug/m3 | <0.87 | <0.87 | | 25 | |
| 4-Methyl-2-pentanone (MIBK) | ug/m3 | <0.79 | <0.79 | | 25 | |
| Acetone | ug/m3 | 17.9 | 17.4 | 3 | 25 | |
| Benzene | ug/m3 | 2.4 | 2.4 | 0 | 25 | |
| Benzyl chloride | ug/m3 | <1.8 | <1.8 | | 25 | |
| Bromodichloromethane | ug/m3 | <0.56 | <0.56 | | 25 | |
| Bromoform | ug/m3 | <2.2 | <2.2 | | 25 | |
| Bromomethane | ug/m3 | <0.35 | <0.35 | | 25 | |

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60602996 Grafton VI-Revised Report
 Pace Project No.: 10500212

SAMPLE DUPLICATE: 3483875

| Parameter | Units | 10500780001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---------------------------|-------|-----------------------|---------------|-----|------------|------------|
| Carbon disulfide | ug/m3 | 0.55J | 0.52J | | 25 | |
| Carbon tetrachloride | ug/m3 | <0.65 | <0.65 | | 25 | |
| Chlorobenzene | ug/m3 | <0.42 | <0.42 | | 25 | |
| Chloroethane | ug/m3 | <0.40 | <0.40 | | 25 | |
| Chloroform | ug/m3 | <0.30 | <0.30 | | 25 | |
| Chloromethane | ug/m3 | 1.0 | 0.95 | 9 | 25 | |
| cis-1,2-Dichloroethene | ug/m3 | <0.33 | <0.33 | | 25 | |
| cis-1,3-Dichloropropene | ug/m3 | <0.46 | <0.46 | | 25 | |
| Cyclohexane | ug/m3 | <0.54 | <0.54 | | 25 | |
| Dibromochloromethane | ug/m3 | <1.1 | <1.1 | | 25 | |
| Dichlorodifluoromethane | ug/m3 | 2.7 | 2.7 | 0 | 25 | |
| Dichlorotetrafluoroethane | ug/m3 | <0.66 | <0.66 | | 25 | |
| Ethanol | ug/m3 | 181 | 171 | 5 | 25 | |
| Ethyl acetate | ug/m3 | 4.6 | 4.5 | 2 | 25 | |
| Ethylbenzene | ug/m3 | 0.80J | 0.78J | | 25 | |
| Hexachloro-1,3-butadiene | ug/m3 | <3.0 | <3.0 | | 25 | |
| m&p-Xylene | ug/m3 | 2.8 | 2.6J | | 25 | |
| Methyl-tert-butyl ether | ug/m3 | <1.0 | <1.0 | | 25 | |
| Methylene Chloride | ug/m3 | 3.3J | 3.3J | | 25 | |
| n-Heptane | ug/m3 | 1.4 | 1.5 | 4 | 25 | |
| n-Hexane | ug/m3 | 5.4 | 5.6 | 4 | 25 | |
| Naphthalene | ug/m3 | <2.0 | 2.4J | | 25 | |
| o-Xylene | ug/m3 | 0.99J | 0.97J | | 25 | |
| Propylene | ug/m3 | <0.21 | <0.21 | | 25 | |
| Styrene | ug/m3 | <0.52 | 1.0J | | 25 | |
| Tetrachloroethene | ug/m3 | <0.48 | <0.48 | | 25 | |
| Tetrahydrofuran | ug/m3 | <0.40 | <0.40 | | 25 | |
| Toluene | ug/m3 | 7.4 | 7.5 | 2 | 25 | |
| trans-1,2-Dichloroethene | ug/m3 | <0.43 | <0.43 | | 25 | |
| trans-1,3-Dichloropropene | ug/m3 | <0.67 | <0.67 | | 25 | |
| Trichloroethene | ug/m3 | <0.38 | <0.38 | | 25 | |
| Trichlorofluoromethane | ug/m3 | 1.8 | 1.7J | | 25 | |
| Vinyl acetate | ug/m3 | <0.41 | <0.41 | | 25 | |
| Vinyl chloride | ug/m3 | <0.19 | <0.19 | | 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.

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QUALIFIERS

Project: 60602996 Grafton VI-Revised Report
Pace Project No.: 10500212

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.
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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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60602996 Grafton VI-Revised Report
Pace Project No.: 10500212

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 10500212001 | OA-1 | TO-15 | 647211 | | |
| 10500212002 | IA-1 | TO-15 | 647211 | | |
| 10500212003 | SS-2 | TO-15 | 647211 | | |
| 10500212004 | SS-3 | TO-15 | 647211 | | |

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